**VOLUME IV**
**Remedial Investigation Report**
**South Mesa WQARF Registry Site**
**Mesa, Arizona**
**ADEQ Task Assignment EV11-0084**

**Prepared for:**

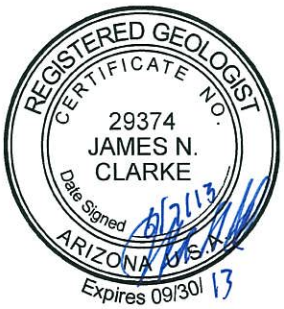
**Arizona Department of Environmental Quality**
**Waste Programs Division**
**1110 West Washington Street**
**Phoenix, Arizona 85007**

**Prepared by:**

**AMEC Environment & Infrastructure, Inc.**
**Phoenix, Arizona**

**June 7, 2013**

**AMEC Project No. 14-2012-2022.04.01**



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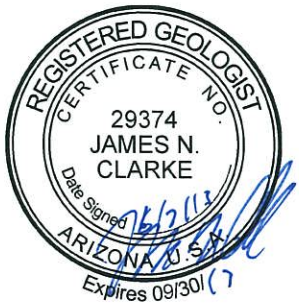

# APPENDIX K

## DEL MAR ANALYTICAL/TEST AMERICA
## GROUNDWATER SAMPLE ANALYTICAL REPORTS

Del Mar Analytical

2852 Alton Ave., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228
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9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-9596 FAX (858) 505-9689
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2

Report Number: PJG0078

Sampled: 07/07/00
Received: 07/07/00
Issued: 09/28/00
Revised: 09/28/00

# CASE NARRATIVE

| LABORATORY NUMBER | SAMPLE DESCRIPTION | SAMPLE MATRIX |
|---|---|---|
| PJG0078-01 | MW-LW | Water |
| PJG0078-02 | MW-4S | Water |
| PJG0078-03 | MW-3S | Water |
| PJG0078-04 | MW-7D | Water |
| PJG0078-05 | Trip Blank | Water |

SAMPLE RECEIPT: Samples were received intact, on ice, and with chain of custody documentation.

HOLDING TIMES: Holding times were met.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: One or more method QC parameter exceeded acceptance limits. See Corrective Action Report.

OBSERVATIONS: Because no limits have been established for a full spike list for the MS/MSD or LCS/LCSD within the last year, acceptance limits for compounds without specific acceptance limits in the QAPP have been taken from control charts generated November of 1998.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

**DEL MAR ANALYTICAL , PHOENIX (AZ0426)**

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2

Report Number: PJG0078

Sampled: 07/07/00
Received: 07/07/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0078-01 (MW-LW - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P0G1303 | 20 | ND | 1 | 7/13/00 | 7/13/00 | |
| Benzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Bromobenzene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Bromochloromethane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Bromodichloromethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Bromoform | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Bromomethane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 2-Butanone (MEK) | EPA 8260B | P0G1303 | 10 | ND | 1 | 7/13/00 | 7/13/00 | |
| n-Butylbenzene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| sec-Butylbenzene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| tert-Butylbenzene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Carbon Disulfide | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Carbon tetrachloride | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Chlorobenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Chloroethane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Chloroform | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Chloromethane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | L3 |
| 2-Chlorotoluene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 4-Chlorotoluene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Dibromochloromethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Dibromomethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2-Dichlorobenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,3-Dichlorobenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,4-Dichlorobenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Dichlorodifluoromethane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,1-Dichloroethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2-Dichloroethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,1-Dichloroethene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| cis-1,2-Dichloroethene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| trans-1,2-Dichloroethene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2-Dichloropropane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,3-Dichloropropane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 2,2-Dichloropropane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,1-Dichloropropene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| cis-1,3-Dichloropropene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| trans-1,3-Dichloropropene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Ethylbenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Hexachlorobutadiene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 2-Hexanone | EPA 8260B | P0G1303 | 10 | ND | 1 | 7/13/00 | 7/13/00 | |
| Iodomethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Isopropylbenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0078

Sampled: 07/07/00
Received: 07/07/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0078-01 (MW-LW - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Methylene chloride | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 4-Methyl-2-pentatnone (MIBK) | EPA 8260B | P0G1303 | 10 | ND | 1 | 7/13/00 | 7/13/00 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Naphthalene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| n-Propylbenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Styrene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Tetrachloroethene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Toluene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,1,1-Trichloroethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,1,2-Trichloroethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Trichloroethene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Trichlorofluoromethane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2,3-Trichloropropane | EPA 8260B | P0G1303 | 10 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Vinyl acetate | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Vinyl chloride | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Xylenes, Total | EPA 8260B | P0G1303 | 10 | ND | 1 | 7/13/00 | 7/13/00 | |
| *Surrogate: Dibromofluoromethane (70-160%)* | | | | *96.8 %* | | | | |
| *Surrogate: Toluene-d8 (75-140%)* | | | | *98.0 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (75-135%)* | | | | *90.8 %* | | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0078

Sampled: 07/07/00
Received: 07/07/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0078-02 (MW-4S - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P0G1303 | 20 | ND | 1 | 7/13/00 | 7/13/00 | |
| Benzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Bromobenzene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Bromochloromethane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Bromodichloromethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Bromoform | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Bromomethane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 2-Butanone (MEK) | EPA 8260B | P0G1303 | 10 | ND | 1 | 7/13/00 | 7/13/00 | |
| n-Butylbenzene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| sec-Butylbenzene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| tert-Butylbenzene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Carbon Disulfide | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Carbon tetrachloride | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Chlorobenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Chloroethane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Chloroform | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Chloromethane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | L3 |
| 2-Chlorotoluene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 4-Chlorotoluene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Dibromochloromethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Dibromomethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2-Dichlorobenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,3-Dichlorobenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,4-Dichlorobenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Dichlorodifluoromethane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,1-Dichloroethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2-Dichloroethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,1-Dichloroethene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| cis-1,2-Dichloroethene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| trans-1,2-Dichloroethene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2-Dichloropropane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,3-Dichloropropane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 2,2-Dichloropropane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,1-Dichloropropene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| cis-1,3-Dichloropropene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| trans-1,3-Dichloropropene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Ethylbenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Hexachlorobutadiene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 2-Hexanone | EPA 8260B | P0G1303 | 10 | ND | 1 | 7/13/00 | 7/13/00 | |
| Iodomethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Isopropylbenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0078

Sampled: 07/07/00
Received: 07/07/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0078-02 (MW-4S - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Methylene chloride | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 4-Methyl-2-pentatnone (MIBK) | EPA 8260B | P0G1303 | 10 | ND | 1 | 7/13/00 | 7/13/00 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Naphthalene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| n-Propylbenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Styrene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Tetrachloroethene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Toluene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,1,1-Trichloroethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,1,2-Trichloroethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Trichloroethene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Trichlorofluoromethane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2,3-Trichloropropane | EPA 8260B | P0G1303 | 10 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Vinyl acetate | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Vinyl chloride | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Xylenes, Total | EPA 8260B | P0G1303 | 10 | ND | 1 | 7/13/00 | 7/13/00 | |
| *Surrogate: Dibromofluoromethane (70-160%)* | | | | *96.4 %* | | | | |
| *Surrogate: Toluene-d8 (75-140%)* | | | | *98.8 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (75-135%)* | | | | *91.2 %* | | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2

Report Number: PJG0078

Sampled: 07/07/00
Received: 07/07/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0078-03 (MW-3S - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P0G1303 | 20 | ND | 1 | 7/13/00 | 7/13/00 | |
| Benzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Bromobenzene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Bromochloromethane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Bromodichloromethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Bromoform | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Bromomethane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 2-Butanone (MEK) | EPA 8260B | P0G1303 | 10 | ND | 1 | 7/13/00 | 7/13/00 | |
| n-Butylbenzene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| sec-Butylbenzene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| tert-Butylbenzene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Carbon Disulfide | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Carbon tetrachloride | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Chlorobenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Chloroethane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Chloroform | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Chloromethane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | L3 |
| 2-Chlorotoluene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 4-Chlorotoluene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Dibromochloromethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Dibromomethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2-Dichlorobenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,3-Dichlorobenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,4-Dichlorobenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Dichlorodifluoromethane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,1-Dichloroethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2-Dichloroethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,1-Dichloroethene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| cis-1,2-Dichloroethene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| trans-1,2-Dichloroethene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2-Dichloropropane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,3-Dichloropropane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 2,2-Dichloropropane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,1-Dichloropropene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| cis-1,3-Dichloropropene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| trans-1,3-Dichloropropene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Ethylbenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Hexachlorobutadiene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 2-Hexanone | EPA 8260B | P0G1303 | 10 | ND | 1 | 7/13/00 | 7/13/00 | |
| Iodomethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Isopropylbenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0078

Sampled: 07/07/00
Received: 07/07/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0078-03 (MW-3S - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Methylene chloride | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 4-Methyl-2-pentatnone (MIBK) | EPA 8260B | P0G1303 | 10 | ND | 1 | 7/13/00 | 7/13/00 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Naphthalene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| n-Propylbenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Styrene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Tetrachloroethene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Toluene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,1,1-Trichloroethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,1,2-Trichloroethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Trichloroethene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Trichlorofluoromethane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2,3-Trichloropropane | EPA 8260B | P0G1303 | 10 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Vinyl acetate | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Vinyl chloride | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Xylenes, Total | EPA 8260B | P0G1303 | 10 | ND | 1 | 7/13/00 | 7/13/00 | |
| *Surrogate: Dibromofluoromethane (70-160%)* | | | | *100 %* | | | | |
| *Surrogate: Toluene-d8 (75-140%)* | | | | *99.2 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (75-135%)* | | | | *92.0 %* | | | | |

Julie M. Slocum
Project Manager



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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2

Report Number: PJG0078

Sampled: 07/07/00
Received: 07/07/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0078-04 (MW-7D - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P0G1303 | 20 | ND | 1 | 7/13/00 | 7/13/00 | |
| Benzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Bromobenzene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Bromochloromethane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Bromodichloromethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Bromoform | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Bromomethane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 2-Butanone (MEK) | EPA 8260B | P0G1303 | 10 | ND | 1 | 7/13/00 | 7/13/00 | |
| n-Butylbenzene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| sec-Butylbenzene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| tert-Butylbenzene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Carbon Disulfide | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Carbon tetrachloride | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Chlorobenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Chloroethane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Chloroform | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Chloromethane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | L3 |
| 2-Chlorotoluene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 4-Chlorotoluene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Dibromochloromethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Dibromomethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2-Dichlorobenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,3-Dichlorobenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,4-Dichlorobenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Dichlorodifluoromethane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,1-Dichloroethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2-Dichloroethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,1-Dichloroethene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| cis-1,2-Dichloroethene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| trans-1,2-Dichloroethene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2-Dichloropropane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,3-Dichloropropane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 2,2-Dichloropropane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,1-Dichloropropene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| cis-1,3-Dichloropropene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| trans-1,3-Dichloropropene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Ethylbenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Hexachlorobutadiene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 2-Hexanone | EPA 8260B | P0G1303 | 10 | ND | 1 | 7/13/00 | 7/13/00 | |
| Iodomethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Isopropylbenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0078

Sampled: 07/07/00
Received: 07/07/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0078-04 (MW-7D - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Methylene chloride | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 4-Methyl-2-pentatnone (MIBK) | EPA 8260B | P0G1303 | 10 | ND | 1 | 7/13/00 | 7/13/00 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Naphthalene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| n-Propylbenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Styrene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| **Tetrachloroethene** | EPA 8260B | P0G1303 | 2.0 | **30** | 1 | 7/13/00 | 7/13/00 | |
| Toluene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,1,1-Trichloroethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,1,2-Trichloroethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Trichloroethene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Trichlorofluoromethane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2,3-Trichloropropane | EPA 8260B | P0G1303 | 10 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Vinyl acetate | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Vinyl chloride | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Xylenes, Total | EPA 8260B | P0G1303 | 10 | ND | 1 | 7/13/00 | 7/13/00 | |
| *Surrogate: Dibromofluoromethane (70-160%)* | | | | *98.0 %* | | | | |
| *Surrogate: Toluene-d8 (75-140%)* | | | | *100 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (75-135%)* | | | | *90.4 %* | | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2

Report Number: PJG0078

Sampled: 07/07/00
Received: 07/07/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0078-05 (Trip Blank - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P0G1303 | 20 | ND | 1 | 7/13/00 | 7/13/00 | |
| Benzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Bromobenzene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Bromochloromethane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Bromodichloromethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Bromoform | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Bromomethane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 2-Butanone (MEK) | EPA 8260B | P0G1303 | 10 | ND | 1 | 7/13/00 | 7/13/00 | |
| n-Butylbenzene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| sec-Butylbenzene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| tert-Butylbenzene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Carbon Disulfide | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Carbon tetrachloride | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Chlorobenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Chloroethane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Chloroform | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Chloromethane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | L3 |
| 2-Chlorotoluene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 4-Chlorotoluene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Dibromochloromethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Dibromomethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2-Dichlorobenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,3-Dichlorobenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,4-Dichlorobenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Dichlorodifluoromethane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,1-Dichloroethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2-Dichloroethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,1-Dichloroethene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| cis-1,2-Dichloroethene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| trans-1,2-Dichloroethene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2-Dichloropropane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,3-Dichloropropane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 2,2-Dichloropropane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,1-Dichloropropene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| cis-1,3-Dichloropropene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| trans-1,3-Dichloropropene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Ethylbenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Hexachlorobutadiene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 2-Hexanone | EPA 8260B | P0G1303 | 10 | ND | 1 | 7/13/00 | 7/13/00 | |
| Iodomethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Isopropylbenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0078

Sampled: 07/07/00
Received: 07/07/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0078-05 (Trip Blank - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Methylene chloride | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 4-Methyl-2-pentatnone (MIBK) | EPA 8260B | P0G1303 | 10 | ND | 1 | 7/13/00 | 7/13/00 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Naphthalene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| n-Propylbenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Styrene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Tetrachloroethene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Toluene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,1,1-Trichloroethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,1,2-Trichloroethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Trichloroethene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Trichlorofluoromethane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2,3-Trichloropropane | EPA 8260B | P0G1303 | 10 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Vinyl acetate | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Vinyl chloride | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Xylenes, Total | EPA 8260B | P0G1303 | 10 | ND | 1 | 7/13/00 | 7/13/00 | |
| *Surrogate: Dibromofluoromethane (70-160%)* | | | | *98.4 %* | | | | |
| *Surrogate: Toluene-d8 (75-140%)* | | | | *100 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (75-135%)* | | | | *92.4 %* | | | | |

**DEL MAR ANALYTICAL, PHOENIX (AZ0426)**

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0078

Sampled: 07/07/00
Received: 07/07/00

## ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0078-01 (MW-LW - Water)** | | | | | | | | |
| Acenaphthene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Acenaphthylene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Anthracene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Benzidine | EPA 625 | P0G1012 | 100 | ND | 1 | 7/10/00 | 7/22/00 | C2 |
| Benz(a)anthracene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Benzo(b,k)fluoranthene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Benzo(g,h,i)perylene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/22/00 | |
| Benzo(a)pyrene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/22/00 | |
| Bis(2-chloroethoxy)methane | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Bis(2-chloroethyl)ether | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Bis(2-chloroisopropyl)ether | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Bis(2-ethylhexyl)phthalate | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/22/00 | |
| 4-Bromophenyl phenyl ether | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/22/00 | |
| Butyl benzyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 2-Chloronaphthalene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 4-Chloro-3-methylphenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 2-Chlorophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 4-Chlorophenyl phenyl ether | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Chrysene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Dibenz(a,h)anthracene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/22/00 | |
| Di-n-butyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 1,3-Dichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 1,4-Dichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 1,2-Dichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 3,3-Dichlorobenzidine | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/22/00 | |
| 2,4-Dichlorophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Diethyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 2,4-Dimethylphenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Dimethyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 4,6-Dinitro-2-methylphenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 2,4-Dinitrophenol | EPA 625 | P0G1012 | 30 | ND | 1 | 7/10/00 | 7/22/00 | |
| 2,4-Dinitrotoluene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 2,6-Dinitrotoluene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Di-n-octyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 1,2-Diphenylhydrazine | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Fluoranthene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Fluorene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Hexachlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Hexachlorobutadiene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/22/00 | |
| Hexachlorocyclopentadiene | EPA 625 | P0G1012 | 30 | ND | 1 | 7/10/00 | 7/22/00 | |
| Hexachloroethane | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Indeno(1,2,3-cd)pyrene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/22/00 | |
| Isophorone | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |

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Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0078

Sampled: 07/07/00
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## ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0078-01 (MW-LW - Water)** | | | | | | | | |
| Naphthalene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Nitrobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 2-Nitrophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 4-Nitrophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| n-Nitrosodiphenylamine | EPA 625 | P0G1012 | 30 | ND | 1 | 7/10/00 | 7/22/00 | |
| n-Nitroso-di-n-propylamine | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Pentachlorophenol | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/22/00 | |
| Phenanthrene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Phenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Pyrene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 1,2,4-Trichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 2,4,6-Trichlorophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| n-Nitrosodimethylamine | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| *Surrogate: 2-Fluorophenol (21-100%)* | | | | *77.3 %* | | | | |
| *Surrogate: Phenol-d6 (10-94%)* | | | | *89.9 %* | | | | |
| *Surrogate: 2,4,6-Tribromophenol (10-123%)* | | | | *87.3 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (35-114%)* | | | | *92.2 %* | | | | |
| *Surrogate: 2-Fluorobiphenyl (43-116%)* | | | | *72.0 %* | | | | |
| *Surrogate: Terphenyl-d14 (33-141%)* | | | | *103 %* | | | | |
| **Sample ID: PJG0078-02 (MW-4S - Water)** | | | | | | | | |
| Acenaphthene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Acenaphthylene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Anthracene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Benzidine | EPA 625 | P0G1012 | 100 | ND | 1 | 7/10/00 | 7/22/00 | C2 |
| Benz(a)anthracene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Benzo(b,k)fluoranthene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Benzo(g,h,i)perylene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/22/00 | |
| Benzo(a)pyrene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/22/00 | |
| Bis(2-chloroethoxy)methane | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Bis(2-chloroethyl)ether | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Bis(2-chloroisopropyl)ether | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Bis(2-ethylhexyl)phthalate | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/22/00 | |
| 4-Bromophenyl phenyl ether | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/22/00 | |
| Butyl benzyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 2-Chloronaphthalene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 4-Chloro-3-methylphenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 2-Chlorophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 4-Chlorophenyl phenyl ether | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Chrysene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Dibenz(a,h)anthracene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/22/00 | |
| Di-n-butyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 1,3-Dichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2

Report Number: PJG0078

Sampled: 07/07/00
Received: 07/07/00

## ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0078-02 (MW-4S - Water)** | | | | | | | | |
| 1,4-Dichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 1,2-Dichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 3,3-Dichlorobenzidine | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/22/00 | |
| 2,4-Dichlorophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Diethyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 2,4-Dimethylphenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Dimethyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 4,6-Dinitro-2-methylphenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 2,4-Dinitrophenol | EPA 625 | P0G1012 | 30 | ND | 1 | 7/10/00 | 7/22/00 | |
| 2,4-Dinitrotoluene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 2,6-Dinitrotoluene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Di-n-octyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 1,2-Diphenylhydrazine | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Fluoranthene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Fluorene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Hexachlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Hexachlorobutadiene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/22/00 | |
| Hexachlorocyclopentadiene | EPA 625 | P0G1012 | 30 | ND | 1 | 7/10/00 | 7/22/00 | |
| Hexachloroethane | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Indeno(1,2,3-cd)pyrene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/22/00 | |
| Isophorone | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Naphthalene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Nitrobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 2-Nitrophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 4-Nitrophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| n-Nitrosodiphenylamine | EPA 625 | P0G1012 | 30 | ND | 1 | 7/10/00 | 7/22/00 | |
| n-Nitroso-di-n-propylamine | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Pentachlorophenol | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/22/00 | |
| Phenanthrene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Phenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Pyrene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 1,2,4-Trichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 2,4,6-Trichlorophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| n-Nitrosodimethylamine | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| *Surrogate: 2-Fluorophenol (21-100%)* | | | | *68.6 %* | | | | |
| *Surrogate: Phenol-d6 (10-94%)* | | | | *76.4 %* | | | | |
| *Surrogate: 2,4,6-Tribromophenol (10-123%)* | | | | *80.2 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (35-114%)* | | | | *80.2 %* | | | | |
| *Surrogate: 2-Fluorobiphenyl (43-116%)* | | | | *64.4 %* | | | | |
| *Surrogate: Terphenyl-d14 (33-141%)* | | | | *95.2 %* | | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0078

Sampled: 07/07/00
Received: 07/07/00

## ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0078-03 (MW-3S - Water)** | | | | | | | | |
| Acenaphthene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Acenaphthylene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Anthracene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Benzidine | EPA 625 | P0G1012 | 100 | ND | 1 | 7/10/00 | 7/22/00 | C2 |
| Benz(a)anthracene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Benzo(b,k)fluoranthene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Benzo(g,h,i)perylene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/22/00 | |
| Benzo(a)pyrene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/22/00 | |
| Bis(2-chloroethoxy)methane | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Bis(2-chloroethyl)ether | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Bis(2-chloroisopropyl)ether | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Bis(2-ethylhexyl)phthalate | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/22/00 | |
| 4-Bromophenyl phenyl ether | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/22/00 | |
| Butyl benzyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 2-Chloronaphthalene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 4-Chloro-3-methylphenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 2-Chlorophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 4-Chlorophenyl phenyl ether | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Chrysene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Dibenz(a,h)anthracene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/22/00 | |
| Di-n-butyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 1,3-Dichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 1,4-Dichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 1,2-Dichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 3,3-Dichlorobenzidine | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/22/00 | |
| 2,4-Dichlorophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Diethyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 2,4-Dimethylphenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Dimethyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 4,6-Dinitro-2-methylphenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 2,4-Dinitrophenol | EPA 625 | P0G1012 | 30 | ND | 1 | 7/10/00 | 7/22/00 | |
| 2,4-Dinitrotoluene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 2,6-Dinitrotoluene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Di-n-octyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 1,2-Diphenylhydrazine | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Fluoranthene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Fluorene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Hexachlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Hexachlorobutadiene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/22/00 | |
| Hexachlorocyclopentadiene | EPA 625 | P0G1012 | 30 | ND | 1 | 7/10/00 | 7/22/00 | |
| Hexachloroethane | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Indeno(1,2,3-cd)pyrene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/22/00 | |
| Isophorone | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2

Report Number: PJG0078

Sampled: 07/07/00
Received: 07/07/00

## ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0078-03 (MW-3S - Water)** | | | | | | | | |
| Naphthalene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Nitrobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 2-Nitrophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 4-Nitrophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| n-Nitrosodiphenylamine | EPA 625 | P0G1012 | 30 | ND | 1 | 7/10/00 | 7/22/00 | |
| n-Nitroso-di-n-propylamine | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Pentachlorophenol | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/22/00 | |
| Phenanthrene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Phenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Pyrene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 1,2,4-Trichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 2,4,6-Trichlorophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| n-Nitrosodimethylamine | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| *Surrogate: 2-Fluorophenol (21-100%)* | | | | *78.7 %* | | | | |
| *Surrogate: Phenol-d6 (10-94%)* | | | | *91.3 %* | | | | |
| *Surrogate: 2,4,6-Tribromophenol (10-123%)* | | | | *85.5 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (35-114%)* | | | | *95.6 %* | | | | |
| *Surrogate: 2-Fluorobiphenyl (43-116%)* | | | | *75.4 %* | | | | |
| *Surrogate: Terphenyl-d14 (33-141%)* | | | | *105 %* | | | | |
| **Sample ID: PJG0078-04 (MW-7D - Water)** | | | | | | | | |
| Acenaphthene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Acenaphthylene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Anthracene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Benzidine | EPA 625 | P0G1012 | 100 | ND | 1 | 7/10/00 | 7/22/00 | C2 |
| Benz(a)anthracene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Benzo(b,k)fluoranthene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Benzo(g,h,i)perylene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/22/00 | |
| Benzo(a)pyrene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/22/00 | |
| Bis(2-chloroethoxy)methane | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Bis(2-chloroethyl)ether | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Bis(2-chloroisopropyl)ether | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Bis(2-ethylhexyl)phthalate | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/22/00 | |
| 4-Bromophenyl phenyl ether | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/22/00 | |
| Butyl benzyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 2-Chloronaphthalene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 4-Chloro-3-methylphenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 2-Chlorophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 4-Chlorophenyl phenyl ether | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Chrysene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Dibenz(a,h)anthracene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/22/00 | |
| Di-n-butyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 1,3-Dichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0078

Sampled: 07/07/00
Received: 07/07/00

## ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0078-04 (MW-7D - Water)** | | | | | | | | |
| 1,4-Dichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 1,2-Dichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 3,3-Dichlorobenzidine | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/22/00 | |
| 2,4-Dichlorophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Diethyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 2,4-Dimethylphenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Dimethyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 4,6-Dinitro-2-methylphenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 2,4-Dinitrophenol | EPA 625 | P0G1012 | 30 | ND | 1 | 7/10/00 | 7/22/00 | |
| 2,4-Dinitrotoluene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 2,6-Dinitrotoluene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Di-n-octyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 1,2-Diphenylhydrazine | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Fluoranthene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Fluorene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Hexachlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Hexachlorobutadiene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/22/00 | |
| Hexachlorocyclopentadiene | EPA 625 | P0G1012 | 30 | ND | 1 | 7/10/00 | 7/22/00 | |
| Hexachloroethane | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Indeno(1,2,3-cd)pyrene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/22/00 | |
| Isophorone | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Naphthalene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Nitrobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 2-Nitrophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 4-Nitrophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| n-Nitrosodiphenylamine | EPA 625 | P0G1012 | 30 | ND | 1 | 7/10/00 | 7/22/00 | |
| n-Nitroso-di-n-propylamine | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Pentachlorophenol | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/22/00 | |
| Phenanthrene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Phenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Pyrene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 1,2,4-Trichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 2,4,6-Trichlorophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| n-Nitrosodimethylamine | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| *Surrogate: 2-Fluorophenol (21-100%)* | | | | *66.8 %* | | | | |
| *Surrogate: Phenol-d6 (10-94%)* | | | | *77.8 %* | | | | |
| *Surrogate: 2,4,6-Tribromophenol (10-123%)* | | | | *84.0 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (35-114%)* | | | | *84.4 %* | | | | |
| *Surrogate: 2-Fluorobiphenyl (43-116%)* | | | | *68.2 %* | | | | |
| *Surrogate: Terphenyl-d14 (33-141%)* | | | | *108 %* | | | | |

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Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0078

Sampled: 07/07/00
Received: 07/07/00

## TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | mg/l | mg/l | | | | |
| **Sample ID: PJG0078-01 (MW-LW - Water)** | | | | | | | | |
| Aluminum | EPA 200.7 | P0G1113 | 0.50 | ND | 1 | 7/11/00 | 7/12/00 | |
| Antimony | EPA 200.9 | P0G1023 | 0.0040 | ND | 1 | 7/10/00 | 7/13/00 | |
| **Arsenic** | EPA 200.9 | P0G1023 | 0.0030 | **0.0036** | 1 | 7/10/00 | 7/12/00 | |
| **Barium** | EPA 200.7 | P0G1113 | 0.010 | **0.056** | 1 | 7/11/00 | 7/12/00 | |
| Beryllium | EPA 200.9 | P0G1023 | 0.00050 | ND | 1 | 7/10/00 | 7/13/00 | C |
| Cadmium | EPA 200.9 | P0G1023 | 0.00050 | ND | 1 | 7/10/00 | 7/13/00 | C |
| **Calcium** | EPA 200.7 | P0G1113 | 2.0 | **120** | 1 | 7/11/00 | 7/12/00 | |
| **Chromium** | EPA 200.9 | P0G1023 | 0.0080 | **0.026** | 2 | 7/10/00 | 7/18/00 | S |
| Cobalt | EPA 200.7 | P0G1113 | 0.050 | ND | 1 | 7/11/00 | 7/12/00 | |
| Copper | EPA 200.7 | P0G1113 | 0.020 | ND | 1 | 7/11/00 | 7/12/00 | |
| **Iron** | EPA 200.7 | P0G1113 | 0.10 | **6.5** | 1 | 7/11/00 | 7/12/00 | |
| Lead | EPA 200.7 | P0G1113 | 0.050 | ND | 1 | 7/11/00 | 7/12/00 | |
| **Magnesium** | EPA 200.7 | P0G1113 | 0.50 | **48** | 1 | 7/11/00 | 7/13/00 | |
| **Manganese** | EPA 200.7 | P0G1113 | 0.020 | **0.099** | 1 | 7/11/00 | 7/12/00 | |
| Nickel | EPA 200.7 | P0G1113 | 0.050 | ND | 1 | 7/11/00 | 7/12/00 | |
| Selenium | EPA 200.9 | P0G1023 | 0.0040 | ND | 1 | 7/10/00 | 7/12/00 | |
| Silver | EPA 200.7 | P0G1113 | 0.0050 | ND | 1 | 7/11/00 | 7/12/00 | |
| **Sodium** | EPA 273.1 | P0G1113 | 10 | **570** | 2 | 7/11/00 | 7/14/00 | |
| **Strontium** | EPA 200.7 | P0G1113 | 0.50 | **0.98** | 5 | 7/11/00 | 7/13/00 | |
| Vanadium | EPA 200.7 | P0G1113 | 0.050 | ND | 1 | 7/11/00 | 7/12/00 | |
| Zinc | EPA 200.7 | P0G1113 | 0.050 | ND | 1 | 7/11/00 | 7/13/00 | |
| **Sample ID: PJG0078-02 (MW-4S - Water)** | | | | | | | | |
| **Aluminum** | EPA 200.7 | P0G1113 | 0.50 | **2.2** | 1 | 7/11/00 | 7/12/00 | |
| Antimony | EPA 200.9 | P0G1023 | 0.0040 | ND | 1 | 7/10/00 | 7/13/00 | |
| **Arsenic** | EPA 200.9 | P0G1023 | 0.0030 | **0.0051** | 1 | 7/10/00 | 7/12/00 | |
| **Barium** | EPA 200.7 | P0G1113 | 0.010 | **0.13** | 1 | 7/11/00 | 7/12/00 | |
| Beryllium | EPA 200.9 | P0G1023 | 0.00050 | ND | 1 | 7/10/00 | 7/13/00 | C |
| Cadmium | EPA 200.9 | P0G1023 | 0.00050 | ND | 1 | 7/10/00 | 7/13/00 | C |
| **Calcium** | EPA 200.7 | P0G1113 | 2.0 | **120** | 1 | 7/11/00 | 7/12/00 | |
| **Chromium** | EPA 200.9 | P0G1023 | 0.040 | **0.098** | 10 | 7/10/00 | 7/18/00 | S |
| Cobalt | EPA 200.7 | P0G1113 | 0.050 | ND | 1 | 7/11/00 | 7/12/00 | |
| Copper | EPA 200.7 | P0G1113 | 0.020 | ND | 1 | 7/11/00 | 7/12/00 | |
| **Iron** | EPA 200.7 | P0G1113 | 0.10 | **2.3** | 1 | 7/11/00 | 7/12/00 | |
| Lead | EPA 200.7 | P0G1113 | 0.050 | ND | 1 | 7/11/00 | 7/12/00 | |
| **Magnesium** | EPA 200.7 | P0G1113 | 0.50 | **41** | 1 | 7/11/00 | 7/13/00 | |
| **Manganese** | EPA 200.7 | P0G1113 | 0.020 | **0.11** | 1 | 7/11/00 | 7/12/00 | |
| Nickel | EPA 200.7 | P0G1113 | 0.050 | ND | 1 | 7/11/00 | 7/12/00 | |
| Selenium | EPA 200.9 | P0G1023 | 0.0040 | ND | 1 | 7/10/00 | 7/12/00 | |
| Silver | EPA 200.7 | P0G1113 | 0.0050 | ND | 1 | 7/11/00 | 7/12/00 | |
| **Sodium** | EPA 273.1 | P0G1113 | 10 | **300** | 2 | 7/11/00 | 7/14/00 | |
| **Strontium** | EPA 200.7 | P0G1113 | 0.50 | **1.1** | 5 | 7/11/00 | 7/13/00 | |
| Vanadium | EPA 200.7 | P0G1113 | 0.050 | ND | 1 | 7/11/00 | 7/12/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0078

Sampled: 07/07/00
Received: 07/07/00

## TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | mg/l | mg/l | | | | |
| **Sample ID: PJG0078-02 (MW-4S - Water)** | | | | | | | | |
| Zinc | EPA 200.7 | P0G1113 | 0.050 | ND | 1 | 7/11/00 | 7/13/00 | |
| **Sample ID: PJG0078-03 (MW-3S - Water)** | | | | | | | | |
| Aluminum | EPA 200.7 | P0G1113 | 0.50 | ND | 1 | 7/11/00 | 7/12/00 | |
| Antimony | EPA 200.9 | P0G1023 | 0.0040 | ND | 1 | 7/10/00 | 7/13/00 | |
| **Arsenic** | EPA 200.9 | P0G1023 | 0.0030 | **0.0036** | 1 | 7/10/00 | 7/12/00 | |
| **Barium** | EPA 200.7 | P0G1113 | 0.010 | **0.10** | 1 | 7/11/00 | 7/12/00 | |
| Beryllium | EPA 200.9 | P0G1023 | 0.00050 | ND | 1 | 7/10/00 | 7/13/00 | C |
| Cadmium | EPA 200.9 | P0G1023 | 0.00050 | ND | 1 | 7/10/00 | 7/13/00 | C |
| **Calcium** | EPA 200.7 | P0G1113 | 2.0 | **130** | 1 | 7/11/00 | 7/12/00 | |
| **Chromium** | EPA 200.9 | P0G1023 | 0.016 | **0.040** | 4 | 7/10/00 | 7/18/00 | S |
| Cobalt | EPA 200.7 | P0G1113 | 0.050 | ND | 1 | 7/11/00 | 7/12/00 | |
| Copper | EPA 200.7 | P0G1113 | 0.020 | ND | 1 | 7/11/00 | 7/12/00 | |
| **Iron** | EPA 200.7 | P0G1113 | 0.10 | **0.47** | 1 | 7/11/00 | 7/12/00 | |
| Lead | EPA 200.7 | P0G1113 | 0.050 | ND | 1 | 7/11/00 | 7/12/00 | |
| **Magnesium** | EPA 200.7 | P0G1113 | 0.50 | **43** | 1 | 7/11/00 | 7/13/00 | |
| **Manganese** | EPA 200.7 | P0G1113 | 0.020 | **0.022** | 1 | 7/11/00 | 7/12/00 | |
| Nickel | EPA 200.7 | P0G1113 | 0.050 | ND | 1 | 7/11/00 | 7/12/00 | |
| Selenium | EPA 200.9 | P0G1023 | 0.0040 | ND | 1 | 7/10/00 | 7/12/00 | |
| Silver | EPA 200.7 | P0G1113 | 0.0050 | ND | 1 | 7/11/00 | 7/12/00 | |
| **Sodium** | EPA 273.1 | P0G1113 | 10 | **300** | 2 | 7/11/00 | 7/14/00 | |
| **Strontium** | EPA 200.7 | P0G1113 | 1.0 | **1.2** | 10 | 7/11/00 | 7/13/00 | |
| Vanadium | EPA 200.7 | P0G1113 | 0.050 | ND | 1 | 7/11/00 | 7/12/00 | |
| Zinc | EPA 200.7 | P0G1113 | 0.050 | ND | 1 | 7/11/00 | 7/13/00 | |

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2

Report Number: PJG0078

Sampled: 07/07/00
Received: 07/07/00

## TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | mg/l | mg/l | | | | |
| **Sample ID: PJG0078-04 (MW-7D - Water)** | | | | | | | | |
| Aluminum | EPA 200.7 | P0G1113 | 0.50 | ND | 1 | 7/11/00 | 7/12/00 | |
| Antimony | EPA 200.9 | P0G1023 | 0.0040 | ND | 1 | 7/10/00 | 7/13/00 | |
| **Arsenic** | EPA 200.9 | P0G1023 | 0.0030 | **0.0034** | 1 | 7/10/00 | 7/12/00 | |
| **Barium** | EPA 200.7 | P0G1113 | 0.010 | **0.12** | 1 | 7/11/00 | 7/12/00 | |
| Beryllium | EPA 200.9 | P0G1023 | 0.00050 | ND | 1 | 7/10/00 | 7/13/00 | C |
| Cadmium | EPA 200.9 | P0G1023 | 0.00050 | ND | 1 | 7/10/00 | 7/13/00 | C |
| **Calcium** | EPA 200.7 | P0G1113 | 2.0 | **180** | 1 | 7/11/00 | 7/12/00 | |
| **Chromium** | EPA 200.9 | P0G1023 | 0.0040 | **0.0068** | 1 | 7/10/00 | 7/18/00 | S |
| Cobalt | EPA 200.7 | P0G1113 | 0.050 | ND | 1 | 7/11/00 | 7/12/00 | |
| Copper | EPA 200.7 | P0G1113 | 0.020 | ND | 1 | 7/11/00 | 7/12/00 | |
| **Iron** | EPA 200.7 | P0G1113 | 0.10 | **1.4** | 1 | 7/11/00 | 7/12/00 | |
| Lead | EPA 200.7 | P0G1113 | 0.050 | ND | 1 | 7/11/00 | 7/12/00 | |
| **Magnesium** | EPA 200.7 | P0G1113 | 0.50 | **61** | 1 | 7/11/00 | 7/13/00 | |
| **Manganese** | EPA 200.7 | P0G1113 | 0.020 | **0.036** | 1 | 7/11/00 | 7/12/00 | |
| Nickel | EPA 200.7 | P0G1113 | 0.050 | ND | 1 | 7/11/00 | 7/12/00 | |
| Selenium | EPA 200.9 | P0G1023 | 0.0040 | ND | 1 | 7/10/00 | 7/12/00 | |
| Silver | EPA 200.7 | P0G1113 | 0.0050 | ND | 1 | 7/11/00 | 7/12/00 | |
| **Sodium** | EPA 273.1 | P0G1113 | 10 | **340** | 2 | 7/11/00 | 7/14/00 | |
| **Strontium** | EPA 200.7 | P0G1113 | 1.0 | **1.7** | 10 | 7/11/00 | 7/13/00 | |
| Vanadium | EPA 200.7 | P0G1113 | 0.050 | ND | 1 | 7/11/00 | 7/12/00 | |
| Zinc | EPA 200.7 | P0G1113 | 0.050 | ND | 1 | 7/11/00 | 7/13/00 | |

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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0078

Sampled: 07/07/00
Received: 07/07/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1303 Extracted: 07/13/00** | | | | | | | | | | |
| **Blank Analyzed: 07/13/00 (P0G1303-BLK1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | |
| Benzene | ND | 2.0 | ug/l | | | | | | | |
| Bromobenzene | ND | 5.0 | ug/l | | | | | | | |
| Bromochloromethane | ND | 5.0 | ug/l | | | | | | | |
| Bromodichloromethane | ND | 2.0 | ug/l | | | | | | | |
| Bromoform | ND | 5.0 | ug/l | | | | | | | |
| Bromomethane | ND | 5.0 | ug/l | | | | | | | |
| 2-Butanone (MEK) | ND | 10 | ug/l | | | | | | | |
| n-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| sec-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| tert-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| Carbon Disulfide | ND | 5.0 | ug/l | | | | | | | |
| Carbon tetrachloride | ND | 5.0 | ug/l | | | | | | | |
| Chlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| Chloroethane | ND | 5.0 | ug/l | | | | | | | |
| Chloroform | ND | 2.0 | ug/l | | | | | | | |
| Chloromethane | ND | 5.0 | ug/l | | | | | | | |
| 2-Chlorotoluene | ND | 5.0 | ug/l | | | | | | | |
| 4-Chlorotoluene | ND | 5.0 | ug/l | | | | | | | |
| Dibromochloromethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/l | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 2.0 | ug/l | | | | | | | |
| Dibromomethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| Dichlorodifluoromethane | ND | 5.0 | ug/l | | | | | | | |
| 1,1-Dichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,1-Dichloroethene | ND | 5.0 | ug/l | | | | | | | |

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Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2

Report Number: PJG0078

Sampled: 07/07/00
Received: 07/07/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1303 Extracted: 07/13/00** | | | | | | | | | | |
| **Blank Analyzed: 07/13/00 (P0G1303-BLK1)** | | | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 2.0 | ug/l | | | | | | | |
| trans-1,2-Dichloroethene | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,3-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 2,2-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,1-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| cis-1,3-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| Ethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 5.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 10 | ug/l | | | | | | | |
| Iodomethane | ND | 2.0 | ug/l | | | | | | | |
| Isopropylbenzene | ND | 2.0 | ug/l | | | | | | | |
| p-Isopropyltoluene | ND | 2.0 | ug/l | | | | | | | |
| Methylene chloride | ND | 5.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentatnone (MIBK) | ND | 10 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 5.0 | ug/l | | | | | | | |
| Naphthalene | ND | 5.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Styrene | ND | 2.0 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/l | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 2.0 | ug/l | | | | | | | |
| Toluene | ND | 2.0 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 5.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,1,2-Trichloroethane | ND | 2.0 | ug/l | | | | | | | |
| Trichloroethene | ND | 2.0 | ug/l | | | | | | | |
| Trichlorofluoromethane | ND | 5.0 | ug/l | | | | | | | |

Julie M. Slocum
Project Manager



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Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0078

Sampled: 07/07/00
Received: 07/07/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1303 Extracted: 07/13/00** | | | | | | | | | | |
| **Blank Analyzed: 07/13/00 (P0G1303-BLK1)** | | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 10 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Vinyl acetate | ND | 5.0 | ug/l | | | | | | | |
| Vinyl chloride | ND | 5.0 | ug/l | | | | | | | |
| Xylenes, Total | ND | 10 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *24.0* | | *ug/l* | *25.0* | | *96.0* | *70-160* | | | |
| *Surrogate: Toluene-d8* | *25.0* | | *ug/l* | *25.0* | | *100* | *75-140* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *23.0* | | *ug/l* | *25.0* | | *92.0* | *75-135* | | | |
| **LCS Analyzed: 07/13/00 (P0G1303-BS1)** | | | | | | | | | | |
| **Acetone** | **26.0** | 20 | ug/l | 25.0 | | 104 | 35-150 | | | |
| **Benzene** | **23.3** | 2.0 | ug/l | 25.0 | | 93.2 | 65-155 | | | |
| **Bromobenzene** | **22.4** | 5.0 | ug/l | 25.0 | | 89.6 | 65-150 | | | |
| **Bromochloromethane** | **24.7** | 5.0 | ug/l | 25.0 | | 98.8 | 60-155 | | | |
| **Bromodichloromethane** | **24.2** | 2.0 | ug/l | 25.0 | | 96.8 | 60-155 | | | |
| **Bromoform** | **22.5** | 5.0 | ug/l | 25.0 | | 90.0 | 25-160 | | | |
| **Bromomethane** | **20.0** | 5.0 | ug/l | 25.0 | | 80.0 | 55-170 | | | |
| **2-Butanone (MEK)** | **21.7** | 10 | ug/l | 25.0 | | 86.8 | 35-165 | | | |
| **n-Butylbenzene** | **23.1** | 5.0 | ug/l | 25.0 | | 92.4 | 65-140 | | | |
| **sec-Butylbenzene** | **22.9** | 5.0 | ug/l | 25.0 | | 91.6 | 60-145 | | | |
| **tert-Butylbenzene** | **22.7** | 5.0 | ug/l | 25.0 | | 90.8 | 65-145 | | | |
| **Carbon Disulfide** | **30.9** | 5.0 | ug/l | 25.0 | | 124 | 65-155 | | | |
| **Carbon tetrachloride** | **23.5** | 5.0 | ug/l | 25.0 | | 94.0 | 65-150 | | | |
| **Chlorobenzene** | **23.7** | 2.0 | ug/l | 25.0 | | 94.8 | 65-145 | | | |
| **Chloroethane** | **19.3** | 5.0 | ug/l | 25.0 | | 77.2 | 65-165 | | | |
| **Chloroform** | **24.4** | 2.0 | ug/l | 25.0 | | 97.6 | 70-130 | | | |
| **Chloromethane** | **15.3** | 5.0 | ug/l | 25.0 | | 61.2 | 60-165 | | | |
| **2-Chlorotoluene** | **22.2** | 5.0 | ug/l | 25.0 | | 88.8 | 65-145 | | | |
| **4-Chlorotoluene** | **22.2** | 5.0 | ug/l | 25.0 | | 88.8 | 70-145 | | | |
| **Dibromochloromethane** | **26.0** | 2.0 | ug/l | 25.0 | | 104 | 55-155 | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2

Report Number: PJG0078

Sampled: 07/07/00
Received: 07/07/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1303 Extracted: 07/13/00** | | | | | | | | | | |
| **LCS Analyzed: 07/13/00 (P0G1303-BS1)** | | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | 19.5 | 5.0 | ug/l | 25.0 | | 78.0 | 40-150 | | | |
| 1,2-Dibromoethane (EDB) | 23.6 | 2.0 | ug/l | 25.0 | | 94.4 | 55-155 | | | |
| Dibromomethane | 23.5 | 2.0 | ug/l | 25.0 | | 94.0 | 60-155 | | | |
| 1,2-Dichlorobenzene | 22.4 | 2.0 | ug/l | 25.0 | | 89.6 | 65-140 | | | |
| 1,3-Dichlorobenzene | 22.6 | 2.0 | ug/l | 25.0 | | 90.4 | 65-145 | | | |
| 1,4-Dichlorobenzene | 23.1 | 2.0 | ug/l | 25.0 | | 92.4 | 65-140 | | | |
| Dichlorodifluoromethane | 13.0 | 5.0 | ug/l | 25.0 | | 52.0 | 30-190 | | | |
| 1,1-Dichloroethane | 24.6 | 2.0 | ug/l | 25.0 | | 98.4 | 70-130 | | | |
| 1,2-Dichloroethane | 24.5 | 2.0 | ug/l | 25.0 | | 98.0 | 70-130 | | | |
| 1,1-Dichloroethene | 25.0 | 5.0 | ug/l | 25.0 | | 100 | 70-130 | | | |
| cis-1,2-Dichloroethene | 24.0 | 2.0 | ug/l | 25.0 | | 96.0 | 70-130 | | | |
| trans-1,2-Dichloroethene | 24.2 | 2.0 | ug/l | 25.0 | | 96.8 | 55-175 | | | |
| 1,2-Dichloropropane | 24.9 | 2.0 | ug/l | 25.0 | | 99.6 | 70-130 | | | |
| 1,3-Dichloropropane | 23.5 | 2.0 | ug/l | 25.0 | | 94.0 | 60-150 | | | |
| 2,2-Dichloropropane | 24.4 | 2.0 | ug/l | 25.0 | | 97.6 | 15-200 | | | |
| 1,1-Dichloropropene | 22.8 | 2.0 | ug/l | 25.0 | | 91.2 | 65-150 | | | |
| cis-1,3-Dichloropropene | 23.0 | 2.0 | ug/l | 25.0 | | 92.0 | 65-150 | | | |
| trans-1,3-Dichloropropene | 23.2 | 2.0 | ug/l | 25.0 | | 92.8 | 60-150 | | | |
| Ethylbenzene | 23.1 | 2.0 | ug/l | 25.0 | | 92.4 | 60-150 | | | |
| Hexachlorobutadiene | 21.6 | 5.0 | ug/l | 25.0 | | 86.4 | 55-150 | | | |
| 2-Hexanone | 22.9 | 10 | ug/l | 25.0 | | 91.6 | 35-165 | | | |
| Iodomethane | 27.9 | 2.0 | ug/l | 25.0 | | 112 | 65-160 | | | |
| Isopropylbenzene | 24.5 | 2.0 | ug/l | 25.0 | | 98.0 | 65-145 | | | |
| p-Isopropyltoluene | 22.7 | 2.0 | ug/l | 25.0 | | 90.8 | 60-145 | | | |
| Methylene chloride | 25.8 | 5.0 | ug/l | 25.0 | | 103 | 65-160 | | | |
| 4-Methyl-2-pentatnone (MIBK) | 23.0 | 10 | ug/l | 25.0 | | 92.0 | 40-165 | | | |
| Methyl-tert-butyl Ether (MTBE) | 25.3 | 5.0 | ug/l | 25.0 | | 101 | 60-160 | | | |
| Naphthalene | 21.9 | 5.0 | ug/l | 25.0 | | 87.6 | 50-150 | | | |
| n-Propylbenzene | 23.3 | 2.0 | ug/l | 25.0 | | 93.2 | 70-145 | | | |
| Styrene | 24.0 | 2.0 | ug/l | 25.0 | | 96.0 | 65-150 | | | |

Julie M. Slocum
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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2

Report Number: PJG0078

Sampled: 07/07/00
Received: 07/07/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1303 Extracted: 07/13/00** | | | | | | | | | | |
| **LCS Analyzed: 07/13/00 (P0G1303-BS1)** | | | | | | | | | | |
| **1,1,1,2-Tetrachloroethane** | **25.5** | 5.0 | ug/l | 25.0 | | 102 | 60-155 | | | |
| **1,1,2,2-Tetrachloroethane** | **24.1** | 2.0 | ug/l | 25.0 | | 96.4 | 65-150 | | | |
| **Tetrachloroethene** | **23.7** | 2.0 | ug/l | 25.0 | | 94.8 | 70-130 | | | |
| **Toluene** | **23.5** | 2.0 | ug/l | 25.0 | | 94.0 | 75-120 | | | |
| **1,2,3-Trichlorobenzene** | **22.6** | 5.0 | ug/l | 25.0 | | 90.4 | 55-150 | | | |
| **1,2,4-Trichlorobenzene** | **22.6** | 5.0 | ug/l | 25.0 | | 90.4 | 60-145 | | | |
| **1,1,1-Trichloroethane** | **25.4** | 2.0 | ug/l | 25.0 | | 102 | 70-130 | | | |
| **1,1,2-Trichloroethane** | **23.6** | 2.0 | ug/l | 25.0 | | 94.4 | 70-130 | | | |
| **Trichloroethene** | **22.9** | 2.0 | ug/l | 25.0 | | 91.6 | 75-120 | | | |
| **Trichlorofluoromethane** | **15.3** | 5.0 | ug/l | 25.0 | | 61.2 | 10-200 | | | |
| **1,2,3-Trichloropropane** | **21.8** | 10 | ug/l | 25.0 | | 87.2 | 55-150 | | | |
| **1,2,4-Trimethylbenzene** | **23.3** | 2.0 | ug/l | 25.0 | | 93.2 | 65-150 | | | |
| **1,3,5-Trimethylbenzene** | **22.7** | 2.0 | ug/l | 25.0 | | 90.8 | 65-150 | | | |
| **Vinyl acetate** | **28.0** | 5.0 | ug/l | 25.0 | | 112 | 50-160 | | | |
| **Vinyl chloride** | **17.1** | 5.0 | ug/l | 25.0 | | 68.4 | 25-200 | | | |
| **Xylenes, Total** | **70.9** | 10 | ug/l | 75.0 | | 94.5 | 65-145 | | | |
| *Surrogate: Dibromofluoromethane* | *24.2* | | *ug/l* | *25.0* | | *96.8* | *70-160* | | | |
| *Surrogate: Toluene-d8* | *24.4* | | *ug/l* | *25.0* | | *97.6* | *75-140* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *22.5* | | *ug/l* | *25.0* | | *90.0* | *75-135* | | | |
| **LCS Dup Analyzed: 07/13/00 (P0G1303-BSD1)** | | | | | | | | | | |
| **Acetone** | **22.6** | 20 | ug/l | 25.0 | | 90.4 | 35-150 | 14.0 | 20 | |
| **Benzene** | **22.3** | 2.0 | ug/l | 25.0 | | 89.2 | 35-155 | 4.39 | 20 | |
| **Bromobenzene** | **22.0** | 5.0 | ug/l | 25.0 | | 88.0 | 65-150 | 1.80 | 20 | |
| **Bromochloromethane** | **22.8** | 5.0 | ug/l | 25.0 | | 91.2 | 60-155 | 8.00 | 20 | |
| **Bromodichloromethane** | **24.6** | 2.0 | ug/l | 25.0 | | 98.4 | 60-155 | 1.64 | 20 | |
| **Bromoform** | **24.2** | 5.0 | ug/l | 25.0 | | 96.8 | 25-160 | 7.28 | 20 | |
| **Bromomethane** | **17.1** | 5.0 | ug/l | 25.0 | | 68.4 | 55-170 | 15.6 | 20 | |
| **2-Butanone (MEK)** | **20.8** | 10 | ug/l | 25.0 | | 83.2 | 35-165 | 4.24 | 20 | |
| **n-Butylbenzene** | **22.8** | 5.0 | ug/l | 25.0 | | 91.2 | 65-140 | 1.31 | 20 | |
| **sec-Butylbenzene** | **22.9** | 5.0 | ug/l | 25.0 | | 91.6 | 60-145 | 0 | 20 | |

Julie M. Slocum
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Attention: Jim Clarke

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Report Number: PJG0078

Sampled: 07/07/00
Received: 07/07/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1303 Extracted: 07/13/00** | | | | | | | | | | |
| **LCS Dup Analyzed: 07/13/00 (P0G1303-BSD1)** | | | | | | | | | | |
| tert-Butylbenzene | 22.4 | 5.0 | ug/l | 25.0 | | 89.6 | 65-145 | 1.33 | 20 | |
| Carbon Disulfide | 28.6 | 5.0 | ug/l | 25.0 | | 114 | 65-155 | 7.73 | 20 | |
| Carbon tetrachloride | 25.7 | 5.0 | ug/l | 25.0 | | 103 | 65-150 | 8.94 | 20 | |
| Chlorobenzene | 23.7 | 2.0 | ug/l | 25.0 | | 94.8 | 65-145 | 0 | 20 | |
| Chloroethane | 17.7 | 5.0 | ug/l | 25.0 | | 70.8 | 65-165 | 8.65 | 20 | |
| Chloroform | 23.1 | 2.0 | ug/l | 25.0 | | 92.4 | 70-130 | 5.47 | 20 | |
| Chloromethane | 13.4 | 5.0 | ug/l | 25.0 | | 53.6 | 60-165 | 13.2 | 20 | L3 |
| 2-Chlorotoluene | 22.0 | 5.0 | ug/l | 25.0 | | 88.0 | 65-145 | 0.905 | 20 | |
| 4-Chlorotoluene | 22.0 | 5.0 | ug/l | 25.0 | | 88.0 | 70-145 | 0.905 | 20 | |
| Dibromochloromethane | 26.9 | 2.0 | ug/l | 25.0 | | 108 | 55-155 | 3.40 | 20 | |
| 1,2-Dibromo-3-chloropropane | 20.0 | 5.0 | ug/l | 25.0 | | 80.0 | 40-150 | 2.53 | 20 | |
| 1,2-Dibromoethane (EDB) | 23.8 | 2.0 | ug/l | 25.0 | | 95.2 | 55-155 | 0.844 | 20 | |
| Dibromomethane | 22.7 | 2.0 | ug/l | 25.0 | | 90.8 | 60-155 | 3.46 | 20 | |
| 1,2-Dichlorobenzene | 22.2 | 2.0 | ug/l | 25.0 | | 88.8 | 65-140 | 0.897 | 20 | |
| 1,3-Dichlorobenzene | 22.1 | 2.0 | ug/l | 25.0 | | 88.4 | 65-145 | 2.24 | 20 | |
| 1,4-Dichlorobenzene | 22.9 | 2.0 | ug/l | 25.0 | | 91.6 | 65-140 | 0.870 | 20 | |
| Dichlorodifluoromethane | 11.2 | 5.0 | ug/l | 25.0 | | 44.8 | 30-190 | 14.9 | 20 | |
| 1,1-Dichloroethane | 22.3 | 2.0 | ug/l | 25.0 | | 89.2 | 70-130 | 9.81 | 20 | |
| 1,2-Dichloroethane | 22.4 | 2.0 | ug/l | 25.0 | | 89.6 | 70-130 | 8.96 | 20 | |
| 1,1-Dichloroethene | 22.9 | 5.0 | ug/l | 25.0 | | 91.6 | 70-130 | 8.77 | 20 | |
| cis-1,2-Dichloroethene | 22.2 | 2.0 | ug/l | 25.0 | | 88.8 | 70-130 | 7.79 | 20 | |
| trans-1,2-Dichloroethene | 22.7 | 2.0 | ug/l | 25.0 | | 90.8 | 55-175 | 6.40 | 20 | |
| 1,2-Dichloropropane | 23.0 | 2.0 | ug/l | 25.0 | | 92.0 | 70-130 | 7.93 | 20 | |
| 1,3-Dichloropropane | 22.9 | 2.0 | ug/l | 25.0 | | 91.6 | 60-150 | 2.59 | 20 | |
| 2,2-Dichloropropane | 28.0 | 2.0 | ug/l | 25.0 | | 112 | 15-200 | 13.7 | 20 | |
| 1,1-Dichloropropene | 21.6 | 2.0 | ug/l | 25.0 | | 86.4 | 65-150 | 5.41 | 20 | |
| cis-1,3-Dichloropropene | 23.1 | 2.0 | ug/l | 25.0 | | 92.4 | 65-150 | 0.434 | 20 | |
| trans-1,3-Dichloropropene | 24.5 | 2.0 | ug/l | 25.0 | | 98.0 | 60-150 | 5.45 | 20 | |
| Ethylbenzene | 22.7 | 2.0 | ug/l | 25.0 | | 90.8 | 60-150 | 1.75 | 20 | |
| Hexachlorobutadiene | 24.8 | 5.0 | ug/l | 25.0 | | 99.2 | 55-150 | 13.8 | 20 | |

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4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2

Report Number: PJG0078

Sampled: 07/07/00
Received: 07/07/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1303 Extracted: 07/13/00** | | | | | | | | | | |
| **LCS Dup Analyzed: 07/13/00 (P0G1303-BSD1)** | | | | | | | | | | |
| **2-Hexanone** | **23.4** | 10 | ug/l | 25.0 | | 93.6 | 35-165 | 2.16 | 20 | |
| **Iodomethane** | **29.9** | 2.0 | ug/l | 25.0 | | 120 | 65-160 | 6.92 | 20 | |
| **Isopropylbenzene** | **24.0** | 2.0 | ug/l | 25.0 | | 96.0 | 65-145 | 2.06 | 20 | |
| **p-Isopropyltoluene** | **22.6** | 2.0 | ug/l | 25.0 | | 90.4 | 60-145 | 0.442 | 20 | |
| **Methylene chloride** | **25.2** | 5.0 | ug/l | 25.0 | | 101 | 65-160 | 2.35 | 20 | |
| **4-Methyl-2-pentatnone (MIBK)** | **22.6** | 10 | ug/l | 25.0 | | 90.4 | 40-165 | 1.75 | 20 | |
| **Methyl-tert-butyl Ether (MTBE)** | **24.1** | 5.0 | ug/l | 25.0 | | 96.4 | 60-160 | 4.86 | 20 | |
| **Naphthalene** | **21.0** | 5.0 | ug/l | 25.0 | | 84.0 | 50-150 | 4.20 | 20 | |
| **n-Propylbenzene** | **23.3** | 2.0 | ug/l | 25.0 | | 93.2 | 70-145 | 0 | 20 | |
| **Styrene** | **23.7** | 2.0 | ug/l | 25.0 | | 94.8 | 65-150 | 1.26 | 20 | |
| **1,1,1,2-Tetrachloroethane** | **26.3** | 5.0 | ug/l | 25.0 | | 105 | 60-155 | 3.09 | 20 | |
| **1,1,2,2-Tetrachloroethane** | **23.4** | 2.0 | ug/l | 25.0 | | 93.6 | 65-150 | 2.95 | 20 | |
| **Tetrachloroethene** | **24.0** | 2.0 | ug/l | 25.0 | | 96.0 | 70-130 | 1.26 | 20 | |
| **Toluene** | **23.2** | 2.0 | ug/l | 25.0 | | 92.8 | 75-120 | 1.28 | 20 | |
| **1,2,3-Trichlorobenzene** | **22.9** | 5.0 | ug/l | 25.0 | | 91.6 | 55-150 | 1.32 | 20 | |
| **1,2,4-Trichlorobenzene** | **22.9** | 5.0 | ug/l | 25.0 | | 91.6 | 60-145 | 1.32 | 20 | |
| **1,1,1-Trichloroethane** | **27.0** | 2.0 | ug/l | 25.0 | | 108 | 70-130 | 6.11 | 20 | |
| **1,1,2-Trichloroethane** | **23.3** | 2.0 | ug/l | 25.0 | | 93.2 | 70-130 | 1.28 | 20 | |
| **Trichloroethene** | **22.6** | 2.0 | ug/l | 25.0 | | 90.4 | 75-120 | 1.32 | 20 | |
| **Trichlorofluoromethane** | **13.8** | 5.0 | ug/l | 25.0 | | 55.2 | 10-200 | 10.3 | 20 | |
| **1,2,3-Trichloropropane** | **22.0** | 10 | ug/l | 25.0 | | 88.0 | 55-150 | 0.913 | 20 | |
| **1,2,4-Trimethylbenzene** | **23.1** | 2.0 | ug/l | 25.0 | | 92.4 | 65-150 | 0.862 | 20 | |
| **1,3,5-Trimethylbenzene** | **22.4** | 2.0 | ug/l | 25.0 | | 89.6 | 65-150 | 1.33 | 20 | |
| **Vinyl acetate** | **28.0** | 5.0 | ug/l | 25.0 | | 112 | 50-160 | 0 | 20 | |
| **Vinyl chloride** | **16.1** | 5.0 | ug/l | 25.0 | | 64.4 | 25-200 | 6.02 | 20 | |
| **Xylenes, Total** | **69.4** | 10 | ug/l | 75.0 | | 92.5 | 65-145 | 2.14 | 20 | |
| *Surrogate: Dibromofluoromethane* | *23.6* | | *ug/l* | *25.0* | | *94.4* | *70-160* | | | |
| *Surrogate: Toluene-d8* | *24.4* | | *ug/l* | *25.0* | | *97.6* | *75-140* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *22.7* | | *ug/l* | *25.0* | | *90.8* | *75-135* | | | |

Julie M. Slocum
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Report Number: PJG0078

Sampled: 07/07/00
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METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1303 Extracted: 07/13/00** | | | | | | | | | | |
| **Matrix Spike Analyzed: 07/13/00 (P0G1303-MS1)** | | | | | **Source: PJG0053-03** | | | | | |
| **Acetone** | **22.5** | 20 | ug/l | 25.0 | ND | 90.0 | 35-150 | | | |
| **Benzene** | **22.7** | 2.0 | ug/l | 25.0 | ND | 90.8 | 65-155 | | | |
| **Bromobenzene** | **21.9** | 5.0 | ug/l | 25.0 | ND | 87.6 | 65-150 | | | |
| **Bromochloromethane** | **24.3** | 5.0 | ug/l | 25.0 | ND | 97.2 | 60-155 | | | |
| **Bromodichloromethane** | **24.7** | 2.0 | ug/l | 25.0 | ND | 98.8 | 60-155 | | | |
| **Bromoform** | **22.1** | 5.0 | ug/l | 25.0 | ND | 88.4 | 25-160 | | | |
| **Bromomethane** | **19.0** | 5.0 | ug/l | 25.0 | ND | 76.0 | 55-170 | | | |
| **2-Butanone (MEK)** | **20.2** | 10 | ug/l | 25.0 | ND | 80.8 | 35-165 | | | |
| **n-Butylbenzene** | **23.3** | 5.0 | ug/l | 25.0 | ND | 93.2 | 65-140 | | | |
| **sec-Butylbenzene** | **22.9** | 5.0 | ug/l | 25.0 | ND | 91.6 | 60-145 | | | |
| **tert-Butylbenzene** | **22.6** | 5.0 | ug/l | 25.0 | ND | 90.4 | 65-145 | | | |
| **Carbon Disulfide** | **30.3** | 5.0 | ug/l | 25.0 | ND | 121 | 65-155 | | | |
| **Carbon tetrachloride** | **23.9** | 5.0 | ug/l | 25.0 | ND | 95.6 | 65-150 | | | |
| **Chlorobenzene** | **23.4** | 2.0 | ug/l | 25.0 | ND | 93.6 | 65-145 | | | |
| **Chloroethane** | **18.6** | 5.0 | ug/l | 25.0 | ND | 74.4 | 65-165 | | | |
| **Chloroform** | **24.1** | 2.0 | ug/l | 25.0 | ND | 96.4 | 70-130 | | | |
| **Chloromethane** | **15.1** | 5.0 | ug/l | 25.0 | ND | 60.4 | 60-165 | | | L3 |
| **2-Chlorotoluene** | **21.8** | 5.0 | ug/l | 25.0 | ND | 87.2 | 65-145 | | | |
| **4-Chlorotoluene** | **22.3** | 5.0 | ug/l | 25.0 | ND | 89.2 | 70-145 | | | |
| **Dibromochloromethane** | **26.5** | 2.0 | ug/l | 25.0 | ND | 106 | 55-155 | | | |
| **1,2-Dibromo-3-chloropropane** | **19.1** | 5.0 | ug/l | 25.0 | ND | 76.4 | 40-150 | | | |
| **1,2-Dibromoethane (EDB)** | **23.4** | 2.0 | ug/l | 25.0 | ND | 93.6 | 55-155 | | | |
| **Dibromomethane** | **22.8** | 2.0 | ug/l | 25.0 | ND | 91.2 | 60-155 | | | |
| **1,2-Dichlorobenzene** | **22.1** | 2.0 | ug/l | 25.0 | ND | 88.4 | 65-140 | | | |
| **1,3-Dichlorobenzene** | **22.4** | 2.0 | ug/l | 25.0 | ND | 89.6 | 65-145 | | | |
| **1,4-Dichlorobenzene** | **22.9** | 2.0 | ug/l | 25.0 | ND | 91.6 | 65-140 | | | |
| **Dichlorodifluoromethane** | **12.6** | 5.0 | ug/l | 25.0 | ND | 50.4 | 30-190 | | | |
| **1,1-Dichloroethane** | **24.1** | 2.0 | ug/l | 25.0 | ND | 96.4 | 70-130 | | | |
| **1,2-Dichloroethane** | **23.7** | 2.0 | ug/l | 25.0 | ND | 94.8 | 70-130 | | | |
| **1,1-Dichloroethene** | **24.7** | 5.0 | ug/l | 25.0 | ND | 98.8 | 55-125 | | | |

Julie M. Slocum
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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0078

Sampled: 07/07/00
Received: 07/07/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1303 Extracted: 07/13/00** | | | | | | | | | | |
| **Matrix Spike Analyzed: 07/13/00 (P0G1303-MS1)** | | | | | **Source: PJG0053-03** | | | | | |
| cis-1,2-Dichloroethene | 23.7 | 2.0 | ug/l | 25.0 | ND | 94.8 | 70-130 | | | |
| trans-1,2-Dichloroethene | 23.5 | 2.0 | ug/l | 25.0 | ND | 94.0 | 55-175 | | | |
| 1,2-Dichloropropane | 24.7 | 2.0 | ug/l | 25.0 | ND | 98.8 | 70-130 | | | |
| 1,3-Dichloropropane | 23.4 | 2.0 | ug/l | 25.0 | ND | 93.6 | 60-150 | | | |
| 2,2-Dichloropropane | 24.7 | 2.0 | ug/l | 25.0 | ND | 98.8 | 15-200 | | | |
| 1,1-Dichloropropene | 22.5 | 2.0 | ug/l | 25.0 | ND | 90.0 | 65-150 | | | |
| cis-1,3-Dichloropropene | 22.6 | 2.0 | ug/l | 25.0 | ND | 90.4 | 65-150 | | | |
| trans-1,3-Dichloropropene | 23.6 | 2.0 | ug/l | 25.0 | ND | 94.4 | 60-150 | | | |
| Ethylbenzene | 23.0 | 2.0 | ug/l | 25.0 | ND | 92.0 | 60-150 | | | |
| Hexachlorobutadiene | 25.1 | 5.0 | ug/l | 25.0 | ND | 100 | 55-150 | | | |
| 2-Hexanone | 22.0 | 10 | ug/l | 25.0 | ND | 88.0 | 35-165 | | | |
| Iodomethane | 27.7 | 2.0 | ug/l | 25.0 | ND | 111 | 65-160 | | | |
| Isopropylbenzene | 24.2 | 2.0 | ug/l | 25.0 | ND | 96.8 | 65-145 | | | |
| p-Isopropyltoluene | 22.7 | 2.0 | ug/l | 25.0 | ND | 90.8 | 60-145 | | | |
| Methylene chloride | 25.7 | 5.0 | ug/l | 25.0 | ND | 96.4 | 65-160 | | | |
| 4-Methyl-2-pentatnone (MIBK) | 21.6 | 10 | ug/l | 25.0 | ND | 86.4 | 40-165 | | | |
| Methyl-tert-butyl Ether (MTBE) | 24.8 | 5.0 | ug/l | 25.0 | ND | 99.2 | 60-160 | | | |
| Naphthalene | 21.4 | 5.0 | ug/l | 25.0 | ND | 85.6 | 50-150 | | | |
| n-Propylbenzene | 23.4 | 2.0 | ug/l | 25.0 | ND | 93.6 | 70-145 | | | |
| Styrene | 17.2 | 2.0 | ug/l | 25.0 | ND | 68.8 | 65-150 | | | |
| 1,1,1,2-Tetrachloroethane | 25.7 | 5.0 | ug/l | 25.0 | ND | 103 | 60-155 | | | |
| 1,1,2,2-Tetrachloroethane | 23.2 | 2.0 | ug/l | 25.0 | ND | 92.8 | 65-150 | | | |
| Tetrachloroethene | 23.6 | 2.0 | ug/l | 25.0 | ND | 94.4 | 70-130 | | | |
| Toluene | 23.3 | 2.0 | ug/l | 25.0 | ND | 93.2 | 75-120 | | | |
| 1,2,3-Trichlorobenzene | 22.8 | 5.0 | ug/l | 25.0 | ND | 91.2 | 55-150 | | | |
| 1,2,4-Trichlorobenzene | 22.9 | 5.0 | ug/l | 25.0 | ND | 91.6 | 60-145 | | | |
| 1,1,1-Trichloroethane | 25.0 | 2.0 | ug/l | 25.0 | ND | 100 | 70-130 | | | |
| 1,1,2-Trichloroethane | 23.4 | 2.0 | ug/l | 25.0 | ND | 93.6 | 70-130 | | | |
| Trichloroethene | 23.0 | 2.0 | ug/l | 25.0 | ND | 92.0 | 75-120 | | | |
| Trichlorofluoromethane | 14.8 | 5.0 | ug/l | 25.0 | ND | 59.2 | 10-200 | | | |

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0078

Sampled: 07/07/00
Received: 07/07/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1303 Extracted: 07/13/00** | | | | | | | | | | |
| **Matrix Spike Analyzed: 07/13/00 (P0G1303-MS1)** | | | | | **Source: PJG0053-03** | | | | | |
| **1,2,3-Trichloropropane** | **20.6** | 10 | ug/l | 25.0 | ND | 82.4 | 55-150 | | | |
| **1,2,4-Trimethylbenzene** | **22.9** | 2.0 | ug/l | 25.0 | ND | 91.6 | 65-150 | | | |
| **1,3,5-Trimethylbenzene** | **22.4** | 2.0 | ug/l | 25.0 | ND | 89.6 | 65-150 | | | |
| **Vinyl acetate** | **23.3** | 5.0 | ug/l | 25.0 | ND | 93.2 | 50-160 | | | |
| **Vinyl chloride** | **16.4** | 5.0 | ug/l | 25.0 | ND | 65.6 | 25-200 | | | |
| **Xylenes, Total** | **69.8** | 10 | ug/l | 75.0 | ND | 93.1 | 65-145 | | | |
| *Surrogate: Dibromofluoromethane* | *24.5* | | *ug/l* | *25.0* | | *98.0* | *70-160* | | | |
| *Surrogate: Toluene-d8* | *24.5* | | *ug/l* | *25.0* | | *98.0* | *75-140* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *22.4* | | *ug/l* | *25.0* | | *89.6* | *75-135* | | | |
| **Matrix Spike Dup Analyzed: 07/13/00 (P0G1303-MSD1)** | | | | | **Source: PJG0053-03** | | | | | |
| **Acetone** | **23.8** | 20 | ug/l | 25.0 | ND | 95.2 | 35-150 | 5.62 | 20 | |
| **Benzene** | **23.0** | 2.0 | ug/l | 25.0 | ND | 92.0 | 65-155 | 1.31 | 20 | |
| **Bromobenzene** | **22.0** | 5.0 | ug/l | 25.0 | ND | 88.0 | 65-150 | 0.456 | 20 | |
| **Bromochloromethane** | **24.5** | 5.0 | ug/l | 25.0 | ND | 98.0 | 60-155 | 0.820 | 20 | |
| **Bromodichloromethane** | **24.7** | 2.0 | ug/l | 25.0 | ND | 98.8 | 60-155 | 0 | 20 | |
| **Bromoform** | **23.6** | 5.0 | ug/l | 25.0 | ND | 94.4 | 25-160 | 6.56 | 20 | |
| **Bromomethane** | **17.6** | 5.0 | ug/l | 25.0 | ND | 70.4 | 55-170 | 7.65 | 20 | |
| **2-Butanone (MEK)** | **21.2** | 10 | ug/l | 25.0 | ND | 84.8 | 35-165 | 4.83 | 20 | |
| **n-Butylbenzene** | **23.0** | 5.0 | ug/l | 25.0 | ND | 92.0 | 65-140 | 1.30 | 20 | |
| **sec-Butylbenzene** | **22.9** | 5.0 | ug/l | 25.0 | ND | 91.6 | 60-145 | 0 | 20 | |
| **tert-Butylbenzene** | **22.3** | 5.0 | ug/l | 25.0 | ND | 89.2 | 65-145 | 1.34 | 20 | |
| **Carbon Disulfide** | **30.5** | 5.0 | ug/l | 25.0 | ND | 122 | 65-155 | 0.658 | 20 | |
| **Carbon tetrachloride** | **24.6** | 5.0 | ug/l | 25.0 | ND | 98.4 | 65-150 | 2.89 | 20 | |
| **Chlorobenzene** | **23.9** | 2.0 | ug/l | 25.0 | ND | 95.6 | 65-145 | 2.11 | 20 | |
| **Chloroethane** | **17.7** | 5.0 | ug/l | 25.0 | ND | 70.8 | 65-165 | 4.96 | 20 | |
| **Chloroform** | **24.3** | 2.0 | ug/l | 25.0 | ND | 97.2 | 70-130 | 0.826 | 20 | |
| **Chloromethane** | **14.7** | 5.0 | ug/l | 25.0 | ND | 58.8 | 60-165 | 2.68 | 20 | L3,M2 |
| **2-Chlorotoluene** | **22.0** | 5.0 | ug/l | 25.0 | ND | 88.0 | 65-145 | 0.913 | 20 | |
| **4-Chlorotoluene** | **22.0** | 5.0 | ug/l | 25.0 | ND | 88.0 | 70-145 | 1.35 | 20 | |
| **Dibromochloromethane** | **27.0** | 2.0 | ug/l | 25.0 | ND | 108 | 55-155 | 1.87 | 20 | |

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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0078

Sampled: 07/07/00
Received: 07/07/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1303 Extracted: 07/13/00** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 07/13/00 (P0G1303-MSD1)** | | | | | **Source: PJG0053-03** | | | | | |
| 1,2-Dibromo-3-chloropropane | 12.4 | 5.0 | ug/l | 25.0 | ND | 49.6 | 40-150 | 42.5 | 20 | R2 |
| 1,2-Dibromoethane (EDB) | 24.1 | 2.0 | ug/l | 25.0 | ND | 96.4 | 55-155 | 2.95 | 20 | |
| Dibromomethane | 23.2 | 2.0 | ug/l | 25.0 | ND | 92.8 | 60-155 | 1.74 | 20 | |
| 1,2-Dichlorobenzene | 22.4 | 2.0 | ug/l | 25.0 | ND | 89.6 | 65-140 | 1.35 | 20 | |
| 1,3-Dichlorobenzene | 22.3 | 2.0 | ug/l | 25.0 | ND | 89.2 | 65-145 | 0.447 | 20 | |
| 1,4-Dichlorobenzene | 23.0 | 2.0 | ug/l | 25.0 | ND | 92.0 | 65-140 | 0.436 | 20 | |
| Dichlorodifluoromethane | 11.2 | 5.0 | ug/l | 25.0 | ND | 44.8 | 30-190 | 11.8 | 20 | |
| 1,1-Dichloroethane | 24.2 | 2.0 | ug/l | 25.0 | ND | 96.8 | 70-130 | 0.414 | 20 | |
| 1,2-Dichloroethane | 23.9 | 2.0 | ug/l | 25.0 | ND | 95.6 | 70-130 | 0.840 | 20 | |
| 1,1-Dichloroethene | 24.5 | 5.0 | ug/l | 25.0 | ND | 98.0 | 55-125 | 0.813 | 20 | |
| cis-1,2-Dichloroethene | 24.0 | 2.0 | ug/l | 25.0 | ND | 96.0 | 70-130 | 1.26 | 20 | |
| trans-1,2-Dichloroethene | 23.8 | 2.0 | ug/l | 25.0 | ND | 95.2 | 55-175 | 1.27 | 20 | |
| 1,2-Dichloropropane | 25.0 | 2.0 | ug/l | 25.0 | ND | 100 | 70-130 | 1.21 | 20 | |
| 1,3-Dichloropropane | 23.6 | 2.0 | ug/l | 25.0 | ND | 94.4 | 60-150 | 0.851 | 20 | |
| 2,2-Dichloropropane | 24.2 | 2.0 | ug/l | 25.0 | ND | 96.8 | 15-200 | 2.04 | 20 | |
| 1,1-Dichloropropene | 22.6 | 2.0 | ug/l | 25.0 | ND | 90.4 | 65-150 | 0.443 | 20 | |
| cis-1,3-Dichloropropene | 22.7 | 2.0 | ug/l | 25.0 | ND | 90.8 | 65-150 | 0.442 | 20 | |
| trans-1,3-Dichloropropene | 23.6 | 2.0 | ug/l | 25.0 | ND | 94.4 | 60-150 | 0 | 20 | |
| Ethylbenzene | 23.1 | 2.0 | ug/l | 25.0 | ND | 92.4 | 60-150 | 0.434 | 20 | |
| Hexachlorobutadiene | 24.7 | 5.0 | ug/l | 25.0 | ND | 98.8 | 55-150 | 1.61 | 20 | |
| 2-Hexanone | 22.4 | 10 | ug/l | 25.0 | ND | 89.6 | 35-165 | 1.80 | 20 | |
| Iodomethane | 26.5 | 2.0 | ug/l | 25.0 | ND | 106 | 65-160 | 4.43 | 20 | |
| Isopropylbenzene | 24.4 | 2.0 | ug/l | 25.0 | ND | 97.6 | 65-145 | 0.823 | 20 | |
| p-Isopropyltoluene | 22.6 | 2.0 | ug/l | 25.0 | ND | 90.4 | 60-145 | 0.442 | 20 | |
| Methylene chloride | 25.6 | 5.0 | ug/l | 25.0 | ND | 96.0 | 65-160 | 0.390 | 20 | |
| 4-Methyl-2-pentatnone (MIBK) | 22.5 | 10 | ug/l | 25.0 | ND | 90.0 | 40-165 | 4.08 | 20 | |
| Methyl-tert-butyl Ether (MTBE) | 25.1 | 5.0 | ug/l | 25.0 | ND | 100 | 60-160 | 1.20 | 20 | |
| Naphthalene | ND | 5.0 | ug/l | 25.0 | ND | 17.0 | 50-150 | 134 | 20 | R2 |
| n-Propylbenzene | 23.1 | 2.0 | ug/l | 25.0 | ND | 92.4 | 70-145 | 1.29 | 20 | |
| Styrene | 7.95 | 2.0 | ug/l | 25.0 | ND | 31.8 | 65-150 | 73.6 | 20 | R2 |

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Project Manager



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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2

Report Number: PJG0078

Sampled: 07/07/00
Received: 07/07/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1303 Extracted: 07/13/00** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 07/13/00 (P0G1303-MSD1)** | | | | | **Source: PJG0053-03** | | | | | |
| **1,1,1,2-Tetrachloroethane** | **26.1** | 5.0 | ug/l | 25.0 | ND | 104 | 60-155 | 1.54 | 20 | |
| **1,1,2,2-Tetrachloroethane** | **13.1** | 2.0 | ug/l | 25.0 | ND | 52.4 | 65-150 | 55.6 | 20 | R2 |
| **Tetrachloroethene** | **24.0** | 2.0 | ug/l | 25.0 | ND | 96.0 | 70-130 | 1.68 | 20 | |
| **Toluene** | **23.8** | 2.0 | ug/l | 25.0 | ND | 95.2 | 75-120 | 2.12 | 20 | |
| **1,2,3-Trichlorobenzene** | **20.6** | 5.0 | ug/l | 25.0 | ND | 82.4 | 55-150 | 10.1 | 20 | |
| **1,2,4-Trichlorobenzene** | **22.1** | 5.0 | ug/l | 25.0 | ND | 88.4 | 60-145 | 3.56 | 20 | |
| **1,1,1-Trichloroethane** | **25.4** | 2.0 | ug/l | 25.0 | ND | 102 | 70-130 | 1.59 | 20 | |
| **1,1,2-Trichloroethane** | **23.4** | 2.0 | ug/l | 25.0 | ND | 93.6 | 70-130 | 0 | 20 | |
| **Trichloroethene** | **29.2** | 2.0 | ug/l | 25.0 | ND | 117 | 75-120 | 23.8 | 20 | R2 |
| **Trichlorofluoromethane** | **15.4** | 5.0 | ug/l | 25.0 | ND | 61.6 | 10-200 | 3.97 | 20 | |
| **1,2,3-Trichloropropane** | **21.4** | 10 | ug/l | 25.0 | ND | 85.6 | 55-150 | 3.81 | 20 | |
| **1,2,4-Trimethylbenzene** | **21.9** | 2.0 | ug/l | 25.0 | ND | 87.6 | 65-150 | 4.46 | 20 | |
| **1,3,5-Trimethylbenzene** | **21.8** | 2.0 | ug/l | 25.0 | ND | 87.2 | 65-150 | 2.71 | 20 | |
| **Vinyl acetate** | **15.7** | 5.0 | ug/l | 25.0 | ND | 62.8 | 50-160 | 39.0 | 20 | R2 |
| **Vinyl chloride** | **13.6** | 5.0 | ug/l | 25.0 | ND | 54.4 | 25-200 | 18.7 | 20 | |
| **Xylenes, Total** | **70.3** | 10 | ug/l | 75.0 | ND | 93.7 | 65-145 | 0.714 | 20 | |
| *Surrogate: Dibromofluoromethane* | *24.1* | | *ug/l* | *25.0* | | *96.4* | *70-160* | | | |
| *Surrogate: Toluene-d8* | *24.8* | | *ug/l* | *25.0* | | *99.2* | *75-140* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *22.6* | | *ug/l* | *25.0* | | *90.4* | *75-135* | | | |

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Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0078

Sampled: 07/07/00
Received: 07/07/00

METHOD BLANK/QC DATA

# ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1012 Extracted: 07/10/00** | | | | | | | | | | |
| **Blank Analyzed: 07/19/00 (P0G1012-BLK1)** | | | | | | | | | | |
| Acenaphthene | ND | 10 | ug/l | | | | | | | |
| Acenaphthylene | ND | 10 | ug/l | | | | | | | |
| Anthracene | ND | 10 | ug/l | | | | | | | |
| Benzidine | ND | 100 | ug/l | | | | | | | |
| Benz(a)anthracene | ND | 10 | ug/l | | | | | | | |
| Benzo(b,k)fluoranthene | ND | 10 | ug/l | | | | | | | |
| Benzo(g,h,i)perylene | ND | 20 | ug/l | | | | | | | |
| Benzo(a)pyrene | ND | 20 | ug/l | | | | | | | |
| Bis(2-chloroethoxy)methane | ND | 10 | ug/l | | | | | | | |
| Bis(2-chloroethyl)ether | ND | 10 | ug/l | | | | | | | |
| Bis(2-chloroisopropyl)ether | ND | 10 | ug/l | | | | | | | |
| Bis(2-ethylhexyl)phthalate | ND | 20 | ug/l | | | | | | | |
| 4-Bromophenyl phenyl ether | ND | 20 | ug/l | | | | | | | |
| Butyl benzyl phthalate | ND | 10 | ug/l | | | | | | | |
| 2-Chloronaphthalene | ND | 10 | ug/l | | | | | | | |
| 4-Chloro-3-methylphenol | ND | 10 | ug/l | | | | | | | |
| 2-Chlorophenol | ND | 10 | ug/l | | | | | | | |
| 4-Chlorophenyl phenyl ether | ND | 10 | ug/l | | | | | | | |
| Chrysene | ND | 10 | ug/l | | | | | | | |
| Dibenz(a,h)anthracene | ND | 20 | ug/l | | | | | | | |
| Di-n-butyl phthalate | ND | 10 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 10 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 10 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 10 | ug/l | | | | | | | |
| 3,3-Dichlorobenzidine | ND | 20 | ug/l | | | | | | | |
| 2,4-Dichlorophenol | ND | 10 | ug/l | | | | | | | |
| Diethyl phthalate | ND | 10 | ug/l | | | | | | | |
| 2,4-Dimethylphenol | ND | 10 | ug/l | | | | | | | |
| Dimethyl phthalate | ND | 10 | ug/l | | | | | | | |
| 4,6-Dinitro-2-methylphenol | ND | 10 | ug/l | | | | | | | |

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Report Number: PJG0078

Sampled: 07/07/00
Received: 07/07/00

METHOD BLANK/QC DATA

# ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1012 Extracted: 07/10/00** | | | | | | | | | | |
| **Blank Analyzed: 07/19/00 (P0G1012-BLK1)** | | | | | | | | | | |
| 2,4-Dinitrophenol | ND | 30 | ug/l | | | | | | | |
| 2,4-Dinitrotoluene | ND | 10 | ug/l | | | | | | | |
| 2,6-Dinitrotoluene | ND | 10 | ug/l | | | | | | | |
| Di-n-octyl phthalate | ND | 10 | ug/l | | | | | | | |
| 1,2-Diphenylhydrazine | ND | 10 | ug/l | | | | | | | |
| Fluoranthene | ND | 10 | ug/l | | | | | | | |
| Fluorene | ND | 10 | ug/l | | | | | | | |
| Hexachlorobenzene | ND | 10 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 20 | ug/l | | | | | | | |
| Hexachlorocyclopentadiene | ND | 30 | ug/l | | | | | | | |
| Hexachloroethane | ND | 10 | ug/l | | | | | | | |
| Indeno(1,2,3-cd)pyrene | ND | 20 | ug/l | | | | | | | |
| Isophorone | ND | 10 | ug/l | | | | | | | |
| Naphthalene | ND | 10 | ug/l | | | | | | | |
| Nitrobenzene | ND | 10 | ug/l | | | | | | | |
| 2-Nitrophenol | ND | 10 | ug/l | | | | | | | |
| 4-Nitrophenol | ND | 10 | ug/l | | | | | | | |
| n-Nitrosodiphenylamine | ND | 30 | ug/l | | | | | | | |
| n-Nitroso-di-n-propylamine | ND | 10 | ug/l | | | | | | | |
| Pentachlorophenol | ND | 20 | ug/l | | | | | | | |
| Phenanthrene | ND | 10 | ug/l | | | | | | | |
| Phenol | ND | 10 | ug/l | | | | | | | |
| Pyrene | ND | 10 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 10 | ug/l | | | | | | | |
| 2,4,6-Trichlorophenol | ND | 10 | ug/l | | | | | | | |
| n-Nitrosodimethylamine | ND | 10 | ug/l | | | | | | | |
| *Surrogate: 2-Fluorophenol* | *91.3* | | *ug/l* | *100* | | *91.3* | *21-100* | | | |
| *Surrogate: Phenol-d6* | *97.0* | | *ug/l* | *100* | | *97.0* | *10-94* | | | *Z2* |
| *Surrogate: 2,4,6-Tribromophenol* | *90.4* | | *ug/l* | *100* | | *90.4* | *10-123* | | | |

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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2

Report Number: PJG0078

Sampled: 07/07/00
Received: 07/07/00

METHOD BLANK/QC DATA

# ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1012 Extracted: 07/10/00** | | | | | | | | | | |
| **Blank Analyzed: 07/19/00 (P0G1012-BLK1)** | | | | | | | | | | |
| *Surrogate: Nitrobenzene-d5* | *50.8* | | *ug/l* | *50.0* | | *102* | *35-114* | | | |
| *Surrogate: 2-Fluorobiphenyl* | *38.7* | | *ug/l* | *50.0* | | *77.4* | *43-116* | | | |
| *Surrogate: Terphenyl-d14* | *45.3* | | *ug/l* | *50.0* | | *90.6* | *33-141* | | | |
| **LCS Analyzed: 07/19/00 (P0G1012-BS1)** | | | | | | | | | | |
| **Acenaphthene** | **41.0** | 10 | ug/l | 50.0 | | 82.0 | 47-145 | | | |
| **4-Chloro-3-methylphenol** | **49.2** | 10 | ug/l | 50.0 | | 98.4 | 22-147 | | | |
| **2-Chlorophenol** | **41.8** | 10 | ug/l | 50.0 | | 83.6 | 23-134 | | | |
| **1,4-Dichlorobenzene** | **32.0** | 10 | ug/l | 50.0 | | 64.0 | 20-124 | | | |
| **2,4-Dinitrotoluene** | **48.2** | 10 | ug/l | 50.0 | | 96.4 | 39-139 | | | |
| **4-Nitrophenol** | **51.5** | 10 | ug/l | 50.0 | | 103 | 0.01-132 | | | |
| **n-Nitroso-di-n-propylamine** | **44.4** | 10 | ug/l | 50.0 | | 88.8 | 0.01-230 | | | |
| **Pentachlorophenol** | **42.1** | 20 | ug/l | 50.0 | | 84.2 | 14-176 | | | |
| **Phenol** | **44.1** | 10 | ug/l | 50.0 | | 88.2 | 5-112 | | | |
| **Pyrene** | **45.4** | 10 | ug/l | 50.0 | | 90.8 | 52-115 | | | |
| **1,2,4-Trichlorobenzene** | **35.2** | 10 | ug/l | 50.0 | | 70.4 | 44-142 | | | |
| *Surrogate: 2-Fluorophenol* | *90.4* | | *ug/l* | *100* | | *90.4* | *21-100* | | | |
| *Surrogate: Phenol-d6* | *97.4* | | *ug/l* | *100* | | *97.4* | *10-94* | | | *Z2* |
| *Surrogate: 2,4,6-Tribromophenol* | *101* | | *ug/l* | *100* | | *101* | *10-123* | | | |
| *Surrogate: Nitrobenzene-d5* | *48.3* | | *ug/l* | *50.0* | | *96.6* | *35-114* | | | |
| *Surrogate: 2-Fluorobiphenyl* | *42.8* | | *ug/l* | *50.0* | | *85.6* | *43-116* | | | |
| *Surrogate: Terphenyl-d14* | *50.1* | | *ug/l* | *50.0* | | *100* | *33-141* | | | |
| **LCS Dup Analyzed: 07/19/00 (P0G1012-BSD1)** | | | | | | | | | | |
| **Acenaphthene** | **35.9** | 10 | ug/l | 50.0 | | 71.8 | 47-145 | 13.3 | 20 | |
| **4-Chloro-3-methylphenol** | **44.4** | 10 | ug/l | 50.0 | | 88.8 | 22-147 | 10.3 | 20 | |
| **2-Chlorophenol** | **37.9** | 10 | ug/l | 50.0 | | 75.8 | 23-134 | 9.79 | 20 | |
| **1,4-Dichlorobenzene** | **30.8** | 10 | ug/l | 50.0 | | 61.6 | 20-124 | 3.82 | 20 | |
| **2,4-Dinitrotoluene** | **45.1** | 10 | ug/l | 50.0 | | 90.2 | 39-139 | 6.65 | 20 | |
| **4-Nitrophenol** | **51.8** | 10 | ug/l | 50.0 | | 104 | 0.01-132 | 0.581 | 20 | |
| **n-Nitroso-di-n-propylamine** | **38.8** | 10 | ug/l | 50.0 | | 77.6 | 0.01-230 | 13.5 | 20 | |

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Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0078

Sampled: 07/07/00
Received: 07/07/00

METHOD BLANK/QC DATA

# ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1012 Extracted: 07/10/00** | | | | | | | | | | |
| **LCS Dup Analyzed: 07/19/00 (P0G1012-BSD1)** | | | | | | | | | | |
| **Pentachlorophenol** | **42.8** | 20 | ug/l | 50.0 | | 85.6 | 14-176 | 1.65 | 20 | |
| **Phenol** | **39.3** | 10 | ug/l | 50.0 | | 78.6 | 5-112 | 11.5 | 20 | |
| **Pyrene** | **40.8** | 10 | ug/l | 50.0 | | 81.6 | 52-115 | 10.7 | 20 | |
| **1,2,4-Trichlorobenzene** | **33.3** | 10 | ug/l | 50.0 | | 66.6 | 44-142 | 5.55 | 20 | |
| *Surrogate: 2-Fluorophenol* | *81.2* | | *ug/l* | *100* | | *81.2* | *21-100* | | | |
| *Surrogate: Phenol-d6* | *84.9* | | *ug/l* | *100* | | *84.9* | *10-94* | | | |
| *Surrogate: 2,4,6-Tribromophenol* | *96.7* | | *ug/l* | *100* | | *96.7* | *10-123* | | | |
| *Surrogate: Nitrobenzene-d5* | *44.1* | | *ug/l* | *50.0* | | *88.2* | *35-114* | | | |
| *Surrogate: 2-Fluorobiphenyl* | *37.6* | | *ug/l* | *50.0* | | *75.2* | *43-116* | | | |
| *Surrogate: Terphenyl-d14* | *39.2* | | *ug/l* | *50.0* | | *78.4* | *33-141* | | | |
| **Matrix Spike Analyzed: 07/19/00 (P0G1012-MS1)** | | | | | **Source: PJG0032-01** | | | | | |
| **Acenaphthene** | **35.5** | 10 | ug/l | 50.0 | ND | 71.0 | 47-145 | | | |
| **4-Chloro-3-methylphenol** | **43.2** | 10 | ug/l | 50.0 | ND | 86.4 | 22-147 | | | |
| **2-Chlorophenol** | **39.7** | 10 | ug/l | 50.0 | ND | 79.4 | 23-134 | | | |
| **1,4-Dichlorobenzene** | **32.0** | 10 | ug/l | 50.0 | ND | 64.0 | 20-124 | | | |
| **2,4-Dinitrotoluene** | **45.8** | 10 | ug/l | 50.0 | ND | 91.6 | 39-139 | | | |
| **4-Nitrophenol** | **52.1** | 10 | ug/l | 50.0 | ND | 104 | 0.01-132 | | | |
| **n-Nitroso-di-n-propylamine** | **39.5** | 10 | ug/l | 50.0 | ND | 79.0 | 0.01-230 | | | |
| **Pentachlorophenol** | **42.0** | 20 | ug/l | 50.0 | ND | 84.0 | 14-176 | | | |
| **Phenol** | **40.8** | 10 | ug/l | 50.0 | ND | 81.6 | 5-112 | | | |
| **Pyrene** | **40.9** | 10 | ug/l | 50.0 | ND | 81.8 | 52-115 | | | |
| **1,2,4-Trichlorobenzene** | **34.0** | 10 | ug/l | 50.0 | ND | 68.0 | 44-142 | | | |
| *Surrogate: 2-Fluorophenol* | *85.3* | | *ug/l* | *100* | | *85.3* | *21-100* | | | |
| *Surrogate: Phenol-d6* | *89.1* | | *ug/l* | *100* | | *89.1* | *10-94* | | | |
| *Surrogate: 2,4,6-Tribromophenol* | *95.2* | | *ug/l* | *100* | | *95.2* | *10-123* | | | |
| *Surrogate: Nitrobenzene-d5* | *44.6* | | *ug/l* | *50.0* | | *89.2* | *35-114* | | | |
| *Surrogate: 2-Fluorobiphenyl* | *39.2* | | *ug/l* | *50.0* | | *78.4* | *43-116* | | | |
| *Surrogate: Terphenyl-d14* | *44.6* | | *ug/l* | *50.0* | | *89.2* | *33-141* | | | |

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Report Number: PJG0078

Sampled: 07/07/00
Received: 07/07/00

METHOD BLANK/QC DATA

# ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1012 Extracted: 07/10/00** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 07/20/00 (P0G1012-MSD1)** | | | | | **Source: PJG0032-01** | | | | | |
| **Acenaphthene** | **40.4** | 10 | ug/l | 50.0 | ND | 80.8 | 47-145 | 12.9 | 20 | |
| **4-Chloro-3-methylphenol** | **47.6** | 10 | ug/l | 50.0 | ND | 95.2 | 22-147 | 9.69 | 20 | |
| **2-Chlorophenol** | **40.0** | 10 | ug/l | 50.0 | ND | 80.0 | 23-134 | 0.753 | 20 | |
| **1,4-Dichlorobenzene** | **31.7** | 10 | ug/l | 50.0 | ND | 63.4 | 20-124 | 0.942 | 20 | |
| **2,4-Dinitrotoluene** | **47.2** | 10 | ug/l | 50.0 | ND | 94.4 | 39-139 | 3.01 | 20 | |
| **4-Nitrophenol** | **52.2** | 10 | ug/l | 50.0 | ND | 104 | 0.01-132 | 0.192 | 20 | |
| **n-Nitroso-di-n-propylamine** | **41.4** | 10 | ug/l | 50.0 | ND | 82.8 | 0.01-230 | 4.70 | 20 | |
| **Pentachlorophenol** | **44.0** | 20 | ug/l | 50.0 | ND | 88.0 | 14-176 | 4.65 | 20 | |
| **Phenol** | **42.1** | 10 | ug/l | 50.0 | ND | 84.2 | 5-112 | 3.14 | 20 | |
| **Pyrene** | **42.4** | 10 | ug/l | 50.0 | ND | 84.8 | 52-115 | 3.60 | 20 | |
| **1,2,4-Trichlorobenzene** | **35.2** | 10 | ug/l | 50.0 | ND | 70.4 | 44-142 | 3.47 | 20 | |
| *Surrogate: 2-Fluorophenol* | *85.2* | | *ug/l* | *100* | | *85.2* | *21-100* | | | |
| *Surrogate: Phenol-d6* | *94.2* | | *ug/l* | *100* | | *94.2* | *10-94* | | | *Z2* |
| *Surrogate: 2,4,6-Tribromophenol* | *102* | | *ug/l* | *100* | | *102* | *10-123* | | | |
| *Surrogate: Nitrobenzene-d5* | *46.8* | | *ug/l* | *50.0* | | *93.6* | *35-114* | | | |
| *Surrogate: 2-Fluorobiphenyl* | *43.5* | | *ug/l* | *50.0* | | *87.0* | *43-116* | | | |
| *Surrogate: Terphenyl-d14* | *43.6* | | *ug/l* | *50.0* | | *87.2* | *33-141* | | | |

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Report Number: PJG0078

Sampled: 07/07/00
Received: 07/07/00

METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1023 Extracted: 07/10/00** | | | | | | | | | | |
| **Blank Analyzed: 07/13/00 (P0G1023-BLK1)** | | | | | | | | | | |
| Antimony | ND | 0.0040 | mg/l | | | | | | | |
| Arsenic | ND | 0.0030 | mg/l | | | | | | | |
| Beryllium | ND | 0.00050 | mg/l | | | | | | | |
| Cadmium | ND | 0.00050 | mg/l | | | | | | | |
| Chromium | ND | 0.0040 | mg/l | | | | | | | |
| Selenium | ND | 0.0040 | mg/l | | | | | | | |
| **LCS Analyzed: 07/13/00 (P0G1023-BS1)** | | | | | | | | | | |
| **Antimony** | **0.0368** | 0.0080 | mg/l | 0.0400 | | 92.0 | 85-115 | | | |
| **Arsenic** | **0.0386** | 0.0060 | mg/l | 0.0400 | | 96.5 | 85-115 | | | |
| **Beryllium** | **0.00228** | 0.0010 | mg/l | 0.00200 | | 114 | 85-115 | | | |
| **Cadmium** | **0.00216** | 0.0010 | mg/l | 0.00200 | | 108 | 85-115 | | | |
| **Chromium** | **0.0412** | 0.0080 | mg/l | 0.0400 | | 103 | 85-115 | | | |
| **Selenium** | **0.0392** | 0.0080 | mg/l | 0.0400 | | 98.0 | 85-115 | | | |
| **LCS Dup Analyzed: 07/13/00 (P0G1023-BSD1)** | | | | | | | | | | |
| **Antimony** | **0.0374** | 0.0080 | mg/l | 0.0400 | | 93.5 | 85-115 | 1.62 | 20 | |
| **Arsenic** | **0.0408** | 0.0060 | mg/l | 0.0400 | | 102 | 85-115 | 5.54 | 20 | |
| **Beryllium** | **0.00212** | 0.0010 | mg/l | 0.00200 | | 106 | 85-115 | 7.27 | 20 | |
| **Cadmium** | **0.00222** | 0.0010 | mg/l | 0.00200 | | 111 | 85-115 | 2.74 | 20 | |
| **Chromium** | **0.0412** | 0.0080 | mg/l | 0.0400 | | 103 | 85-115 | 0 | 20 | |
| **Selenium** | **0.0391** | 0.0080 | mg/l | 0.0400 | | 97.7 | 85-115 | 0.255 | 20 | |
| **Matrix Spike Analyzed: 07/13/00 (P0G1023-MS1)** | | | | | **Source: PJG0053-01** | | | | | |
| **Antimony** | **0.0416** | 0.0080 | mg/l | 0.0400 | ND | 104 | 70-130 | | | |
| **Arsenic** | **0.0432** | 0.0060 | mg/l | 0.0400 | ND | 95.5 | 70-130 | | | |
| **Beryllium** | **0.00336** | 0.0020 | mg/l | 0.00200 | ND | 154 | 70-130 | | | M |
| **Cadmium** | **0.00210** | 0.0010 | mg/l | 0.00200 | ND | 105 | 70-130 | | | |
| **Chromium** | **0.0954** | 0.040 | mg/l | 0.0400 | 0.067 | 71.0 | 70-130 | | | |
| **Selenium** | **0.0389** | 0.0080 | mg/l | 0.0400 | ND | 88.7 | 70-130 | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0078

Sampled: 07/07/00
Received: 07/07/00

METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1023 Extracted: 07/10/00** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 07/13/00 (P0G1023-MSD1)** | | | | | Source: PJG0053-01 | | | | | |
| **Antimony** | **0.0441** | 0.0080 | mg/l | 0.0400 | ND | 110 | 70-130 | 5.83 | 20 | |
| **Arsenic** | **0.0473** | 0.0060 | mg/l | 0.0400 | ND | 106 | 70-130 | 9.06 | 20 | |
| **Beryllium** | **0.00358** | 0.0020 | mg/l | 0.00200 | ND | 165 | 70-130 | 6.34 | 20 | M |
| **Cadmium** | **0.00222** | 0.0010 | mg/l | 0.00200 | ND | 111 | 70-130 | 5.56 | 20 | |
| **Chromium** | **0.0903** | 0.040 | mg/l | 0.0400 | 0.067 | 58.3 | 70-130 | 5.49 | 20 | M |
| **Selenium** | **0.0392** | 0.0080 | mg/l | 0.0400 | ND | 89.5 | 70-130 | 0.768 | 20 | |
| **Batch: P0G1113 Extracted: 07/11/00** | | | | | | | | | | |
| **Blank Analyzed: 07/12/00 (P0G1113-BLK1)** | | | | | | | | | | |
| Aluminum | ND | 0.50 | mg/l | | | | | | | |
| Barium | ND | 0.010 | mg/l | | | | | | | |
| Calcium | ND | 2.0 | mg/l | | | | | | | |
| Cobalt | ND | 0.050 | mg/l | | | | | | | |
| Copper | ND | 0.020 | mg/l | | | | | | | |
| Iron | ND | 0.10 | mg/l | | | | | | | |
| Lead | ND | 0.050 | mg/l | | | | | | | |
| Magnesium | ND | 0.50 | mg/l | | | | | | | |
| Manganese | ND | 0.020 | mg/l | | | | | | | |
| Nickel | ND | 0.050 | mg/l | | | | | | | |
| Silver | ND | 0.0050 | mg/l | | | | | | | |
| Sodium | ND | 5.0 | mg/l | | | | | | | |
| Strontium | ND | 0.10 | mg/l | | | | | | | |
| Vanadium | ND | 0.050 | mg/l | | | | | | | |
| Zinc | ND | 0.050 | mg/l | | | | | | | |
| **LCS Analyzed: 07/12/00 (P0G1113-BS1)** | | | | | | | | | | |
| **Aluminum** | **0.920** | 0.50 | mg/l | 1.00 | | 92.0 | 85-115 | | | |
| **Barium** | **0.979** | 0.010 | mg/l | 1.00 | | 97.9 | 85-115 | | | |
| **Calcium** | **9.69** | 2.0 | mg/l | 10.0 | | 96.9 | 85-115 | | | |
| **Cobalt** | **0.950** | 0.050 | mg/l | 1.00 | | 95.0 | 85-115 | | | |
| **Copper** | **0.956** | 0.020 | mg/l | 1.00 | | 95.6 | 85-115 | | | |
| **Iron** | **9.88** | 0.10 | mg/l | 10.0 | | 98.8 | 85-115 | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0078

Sampled: 07/07/00
Received: 07/07/00

## METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1113 Extracted: 07/11/00** | | | | | | | | | | |
| **LCS Analyzed: 07/12/00 (P0G1113-BS1)** | | | | | | | | | | |
| **Lead** | **0.961** | 0.050 | mg/l | 1.00 | | 96.1 | 85-115 | | | |
| **Magnesium** | **9.33** | 0.50 | mg/l | 10.0 | | 93.3 | 85-115 | | | |
| **Manganese** | **0.977** | 0.020 | mg/l | 1.00 | | 97.7 | 85-115 | | | |
| **Nickel** | **0.962** | 0.050 | mg/l | 1.00 | | 96.2 | 85-115 | | | |
| **Silver** | **0.0513** | 0.0050 | mg/l | 0.0500 | | 103 | 85-115 | | | |
| **Sodium** | **50.2** | 5.0 | mg/l | 50.0 | | 100 | 85-115 | | | |
| Strontium | ND | 0.10 | mg/l | 0.100 | | 94.6 | 85-115 | | | |
| **Vanadium** | **0.978** | 0.050 | mg/l | 1.00 | | 97.8 | 85-115 | | | |
| **Zinc** | **0.934** | 0.050 | mg/l | 1.00 | | 93.4 | 85-115 | | | |
| **LCS Dup Analyzed: 07/12/00 (P0G1113-BSD1)** | | | | | | | | | | |
| **Aluminum** | **0.864** | 0.50 | mg/l | 1.00 | | 86.4 | 85-115 | 6.28 | 20 | |
| **Barium** | **0.946** | 0.010 | mg/l | 1.00 | | 94.6 | 85-115 | 3.43 | 20 | |
| **Calcium** | **9.63** | 2.0 | mg/l | 10.0 | | 96.3 | 85-115 | 0.621 | 20 | |
| **Cobalt** | **0.939** | 0.050 | mg/l | 1.00 | | 93.9 | 85-115 | 1.16 | 20 | |
| **Copper** | **0.917** | 0.020 | mg/l | 1.00 | | 91.7 | 85-115 | 4.16 | 20 | |
| **Iron** | **9.52** | 0.10 | mg/l | 10.0 | | 95.2 | 85-115 | 3.71 | 20 | |
| **Lead** | **0.950** | 0.050 | mg/l | 1.00 | | 95.0 | 85-115 | 1.15 | 20 | |
| **Magnesium** | **9.27** | 0.50 | mg/l | 10.0 | | 92.7 | 85-115 | 0.645 | 20 | |
| **Manganese** | **0.957** | 0.020 | mg/l | 1.00 | | 95.7 | 85-115 | 2.07 | 20 | |
| **Nickel** | **0.935** | 0.050 | mg/l | 1.00 | | 93.5 | 85-115 | 2.85 | 20 | |
| **Silver** | **0.0494** | 0.0050 | mg/l | 0.0500 | | 98.8 | 85-115 | 3.77 | 20 | |
| **Sodium** | **50.0** | 5.0 | mg/l | 50.0 | | 100 | 85-115 | 0.399 | 20 | |
| Strontium | ND | 0.10 | mg/l | 0.100 | | 94.2 | 85-115 | 0.424 | 20 | |
| **Vanadium** | **0.973** | 0.050 | mg/l | 1.00 | | 97.3 | 85-115 | 0.513 | 20 | |
| **Zinc** | **0.926** | 0.050 | mg/l | 1.00 | | 92.6 | 85-115 | 0.860 | 20 | |
| **Matrix Spike Analyzed: 07/12/00 (P0G1113-MS1)** | | | | | **Source: PJG0053-02** | | | | | |
| **Aluminum** | **1.09** | 0.50 | mg/l | 1.00 | ND | 109 | 70-130 | | | |
| **Barium** | **1.04** | 0.010 | mg/l | 1.00 | 0.093 | 94.7 | 70-130 | | | |
| **Calcium** | **200** | 2.0 | mg/l | 10.0 | 190 | 100 | 70-130 | | | |
| **Cobalt** | **0.927** | 0.050 | mg/l | 1.00 | ND | 92.3 | 70-130 | | | |
| **Copper** | **0.961** | 0.020 | mg/l | 1.00 | ND | 94.6 | 70-130 | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0078

Sampled: 07/07/00
Received: 07/07/00

## METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1113 Extracted: 07/11/00** | | | | | | | | | | |
| **Matrix Spike Analyzed: 07/12/00 (P0G1113-MS1)** | | | | | **Source: PJG0053-02** | | | | | |
| **Iron** | **12.0** | 0.10 | mg/l | 10.0 | 2.2 | 98.0 | 70-130 | | | |
| **Lead** | **0.928** | 0.050 | mg/l | 1.00 | ND | 92.8 | 70-130 | | | |
| **Magnesium** | **73.8** | 0.50 | mg/l | 10.0 | 63 | 108 | 70-130 | | | |
| **Manganese** | **0.996** | 0.020 | mg/l | 1.00 | 0.044 | 95.2 | 70-130 | | | |
| **Nickel** | **0.924** | 0.050 | mg/l | 1.00 | ND | 91.5 | 70-130 | | | |
| **Silver** | **0.0499** | 0.0050 | mg/l | 0.0500 | ND | 99.8 | 70-130 | | | |
| **Sodium** | **469** | 5.0 | mg/l | 50.0 | 400 | 138 | 85-115 | | | M |
| **Strontium** | **1.88** | 1.0 | mg/l | 0.100 | 1.7 | 180 | 70-130 | | | M |
| **Vanadium** | **1.01** | 0.050 | mg/l | 1.00 | ND | 100 | 70-130 | | | |
| **Zinc** | **0.945** | 0.050 | mg/l | 1.00 | ND | 94.5 | 70-130 | | | |
| **Matrix Spike Dup Analyzed: 07/12/00 (P0G1113-MSD1)** | | | | | **Source: PJG0053-02** | | | | | |
| **Aluminum** | **1.02** | 0.50 | mg/l | 1.00 | ND | 102 | 70-130 | 6.64 | 20 | |
| **Barium** | **1.00** | 0.010 | mg/l | 1.00 | 0.093 | 90.7 | 70-130 | 3.92 | 20 | |
| **Calcium** | **188** | 2.0 | mg/l | 10.0 | 190 | -20.0 | 70-130 | 6.19 | 20 | M |
| **Cobalt** | **0.912** | 0.050 | mg/l | 1.00 | ND | 90.8 | 70-130 | 1.63 | 20 | |
| **Copper** | **0.923** | 0.020 | mg/l | 1.00 | ND | 90.8 | 70-130 | 4.03 | 20 | |
| **Iron** | **11.5** | 0.10 | mg/l | 10.0 | 2.2 | 93.0 | 70-130 | 4.26 | 20 | |
| **Lead** | **0.916** | 0.050 | mg/l | 1.00 | ND | 91.6 | 70-130 | 1.30 | 20 | |
| **Magnesium** | **70.1** | 0.50 | mg/l | 10.0 | 63 | 71.0 | 70-130 | 5.14 | 20 | |
| **Manganese** | **0.962** | 0.020 | mg/l | 1.00 | 0.044 | 91.8 | 70-130 | 3.47 | 20 | |
| **Nickel** | **0.897** | 0.050 | mg/l | 1.00 | ND | 88.8 | 70-130 | 2.97 | 20 | |
| **Silver** | **0.0495** | 0.0050 | mg/l | 0.0500 | ND | 99.0 | 70-130 | 0.805 | 20 | |
| **Sodium** | **444** | 5.0 | mg/l | 50.0 | 400 | 88.0 | 85-115 | 5.48 | 20 | |
| **Strontium** | **1.80** | 1.0 | mg/l | 0.100 | 1.7 | 100 | 70-130 | 4.35 | 20 | |
| **Vanadium** | **0.972** | 0.050 | mg/l | 1.00 | ND | 96.5 | 70-130 | 3.83 | 20 | |
| **Zinc** | **0.926** | 0.050 | mg/l | 1.00 | ND | 92.6 | 70-130 | 2.03 | 20 | |

Julie M. Slocum
Project Manager



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| | | |
|---|---|---|
| Law Engineering<br>4634 S. 36th Place<br>Phoenix, AZ 85040<br>Attention: Jim Clarke | Client Project ID: 70211-0-0150-02-2.2<br>Report Number: PJG0078 | Sampled: 07/07/00<br>Received: 07/07/00 |

METHOD BLANK/QC DATA

# DATA QUALIFIERS AND DEFINITIONS

| | |
|---|---|
| **C** | Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted. |
| **C2** | Calibration Verification recovery was below the method control limit for this analyte, however the average % difference for all analytes met method criteria. See Calibration Check Criteria form. |
| **L3** | Laboratory Control Sample recovery was outside of the acceptance limits. See Corrective Action Report. |
| **M** | The MS and/or MSD were outside of the acceptance limits due to sample matrix interference. See Blank Spike (LCS). |
| **M2** | Matrix Spike recovery was outside the method control limits. See Corrective Action Report. |
| **R2** | The RPD exceeded the method control limit. See Corrective Action Report. |
| **S** | Analyzed by Method of Standard Addition. |
| **Z2** | Surrogate recovery was above the acceptance limits. Data not impacted. |
| **ND** | Analyte NOT DETECTED at or above the reporting limit |
| **NR** | Not reported. |
| **RPD** | Relative Percent Difference |

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Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2

Report Number: PJG0078

Sampled: 07/07/00
Received: 07/07/00

## CALIBRATION CHECK CRITERIA

## ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

The % recovery for the following individual compounds fell outside the ± 15% criteria, however the average % recovery of all compounds in the calibration check solution was within ± 15%, thus meeting the overall calibration check criteria.

| Compound | Footnote | Calibration Check % Recovery | Lab Number | Batch |
|---|---|---|---|---|
| Benzidine | 2 | 84.4 | PJG0078-01 | P0G1012 |
| Benzidine | 2 | 84.4 | PJG0078-02 | P0G1012 |
| Benzidine | 2 | 84.4 | PJG0078-03 | P0G1012 |
| Benzidine | 2 | 84.4 | PJG0078-04 | P0G1012 |

Footnotes:

1 The calibration demonstrated a high bias for this compound. Samples were flagged to indicate a possible high bias in the result for this compound.

2 The calibration demonstrated a low bias for this compound. Samples were flagged to indicate a possible low bias in the result for this compound.

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| | | |
|---|---|---|
| Law Engineering<br>4634 S. 36th Place<br>Phoenix, AZ 85040<br>Attention: Jim Clarke | Client Project ID: 70211-0-0150-02-2.2<br>Report Number: PJG0032 | Sampled: 07/05/00<br>Received: 07/05/00<br>Issued: 09/28/00<br>Revised: 09/28/00 |

# CASE NARRATIVE

| LABORATORY NUMBER | SAMPLE DESCRIPTION | SAMPLE MATRIX |
|---|---|---|
| PJG0032-01 | MW-6D | Water |
| PJG0032-02 | MW-AM-8S | Water |
| PJG0032-03 | MW-9S | Water |
| PJG0032-04 | Trip Blank | Water |

SAMPLE RECEIPT: Samples were received intact, on ice, and with chain of custody documentation.

HOLDING TIMES: Holding times were met.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: One or more method QC parameter exceeded acceptance limits. See Corrective Action Report.

OBSERVATIONS: Because no limits have been established for a full spike list for the MS/MSD or LCS/LCSD within the last year, acceptance limits for compounds without specific acceptance limits in the QAPP have been taken from control charts generated November of 1998.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

**DEL MAR ANALYTICAL , PHOENIX (AZ0426)**

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2

Report Number: PJG0032

Sampled: 07/05/00
Received: 07/05/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0032-01 (MW-6D - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P0G1213 | 20 | ND | 1 | 7/12/00 | 7/12/00 | |
| Benzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Bromobenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Bromochloromethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Bromodichloromethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Bromoform | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Bromomethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 2-Butanone (MEK) | EPA 8260B | P0G1213 | 10 | ND | 1 | 7/12/00 | 7/12/00 | |
| n-Butylbenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| sec-Butylbenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| tert-Butylbenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Carbon Disulfide | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Carbon tetrachloride | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Chlorobenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Chloroethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Chloroform | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Chloromethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 2-Chlorotoluene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 4-Chlorotoluene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Dibromochloromethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Dibromomethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2-Dichlorobenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,3-Dichlorobenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,4-Dichlorobenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Dichlorodifluoromethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1-Dichloroethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2-Dichloroethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1-Dichloroethene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| cis-1,2-Dichloroethene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| trans-1,2-Dichloroethene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2-Dichloropropane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,3-Dichloropropane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 2,2-Dichloropropane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1-Dichloropropene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| cis-1,3-Dichloropropene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| trans-1,3-Dichloropropene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Ethylbenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Hexachlorobutadiene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 2-Hexanone | EPA 8260B | P0G1213 | 10 | ND | 1 | 7/12/00 | 7/12/00 | |
| Iodomethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Isopropylbenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2

Report Number: PJG0032

Sampled: 07/05/00
Received: 07/05/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0032-01 (MW-6D - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Methylene chloride | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 4-Methyl-2-pentatnone (MIBK) | EPA 8260B | P0G1213 | 10 | ND | 1 | 7/12/00 | 7/12/00 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Naphthalene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| n-Propylbenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Styrene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Tetrachloroethene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Toluene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1,1-Trichloroethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1,2-Trichloroethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Trichloroethene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Trichlorofluoromethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2,3-Trichloropropane | EPA 8260B | P0G1213 | 10 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Vinyl acetate | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Vinyl chloride | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Xylenes, Total | EPA 8260B | P0G1213 | 10 | ND | 1 | 7/12/00 | 7/12/00 | |
| *Surrogate: Dibromofluoromethane (70-160%)* | | | | *94.8 %* | | | | |
| *Surrogate: Toluene-d8 (75-140%)* | | | | *88.0 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (75-135%)* | | | | *95.2 %* | | | | |

Julie M. Slocum
Project Manager



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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0032

Sampled: 07/05/00
Received: 07/05/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0032-02 (MW-AM-8S - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P0G1213 | 20 | ND | 1 | 7/12/00 | 7/12/00 | |
| Benzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Bromobenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Bromochloromethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Bromodichloromethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Bromoform | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Bromomethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 2-Butanone (MEK) | EPA 8260B | P0G1213 | 10 | ND | 1 | 7/12/00 | 7/12/00 | |
| n-Butylbenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| sec-Butylbenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| tert-Butylbenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Carbon Disulfide | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Carbon tetrachloride | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Chlorobenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Chloroethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Chloroform | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Chloromethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 2-Chlorotoluene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 4-Chlorotoluene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Dibromochloromethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Dibromomethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2-Dichlorobenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,3-Dichlorobenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,4-Dichlorobenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Dichlorodifluoromethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| **1,1-Dichloroethane** | EPA 8260B | P0G1213 | 2.0 | **4.9** | 1 | 7/12/00 | 7/12/00 | |
| 1,2-Dichloroethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1-Dichloroethene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| **cis-1,2-Dichloroethene** | EPA 8260B | P0G1213 | 2.0 | **2.9** | 1 | 7/12/00 | 7/12/00 | |
| trans-1,2-Dichloroethene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2-Dichloropropane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,3-Dichloropropane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 2,2-Dichloropropane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1-Dichloropropene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| cis-1,3-Dichloropropene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| trans-1,3-Dichloropropene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Ethylbenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Hexachlorobutadiene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 2-Hexanone | EPA 8260B | P0G1213 | 10 | ND | 1 | 7/12/00 | 7/12/00 | |
| Iodomethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Isopropylbenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0032

Sampled: 07/05/00
Received: 07/05/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0032-02 (MW-AM-8S - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Methylene chloride | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 4-Methyl-2-pentatnone (MIBK) | EPA 8260B | P0G1213 | 10 | ND | 1 | 7/12/00 | 7/12/00 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Naphthalene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| n-Propylbenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Styrene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| **Tetrachloroethene** | EPA 8260B | P0G1213 | 2.0 | **33** | 1 | 7/12/00 | 7/12/00 | |
| Toluene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1,1-Trichloroethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1,2-Trichloroethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Trichloroethene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Trichlorofluoromethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2,3-Trichloropropane | EPA 8260B | P0G1213 | 10 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Vinyl acetate | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Vinyl chloride | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Xylenes, Total | EPA 8260B | P0G1213 | 10 | ND | 1 | 7/12/00 | 7/12/00 | |
| *Surrogate: Dibromofluoromethane (70-160%)* | | | | *95.2 %* | | | | |
| *Surrogate: Toluene-d8 (75-140%)* | | | | *88.4 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (75-135%)* | | | | *94.4 %* | | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0032

Sampled: 07/05/00
Received: 07/05/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0032-03 (MW-9S - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P0G1213 | 20 | ND | 1 | 7/12/00 | 7/12/00 | |
| Benzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Bromobenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Bromochloromethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Bromodichloromethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Bromoform | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Bromomethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 2-Butanone (MEK) | EPA 8260B | P0G1213 | 10 | ND | 1 | 7/12/00 | 7/12/00 | |
| n-Butylbenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| sec-Butylbenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| tert-Butylbenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Carbon Disulfide | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Carbon tetrachloride | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Chlorobenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Chloroethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Chloroform | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Chloromethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 2-Chlorotoluene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 4-Chlorotoluene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Dibromochloromethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Dibromomethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2-Dichlorobenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,3-Dichlorobenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,4-Dichlorobenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Dichlorodifluoromethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| **1,1-Dichloroethane** | EPA 8260B | P0G1213 | 2.0 | **4.8** | 1 | 7/12/00 | 7/12/00 | |
| 1,2-Dichloroethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1-Dichloroethene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| **cis-1,2-Dichloroethene** | EPA 8260B | P0G1213 | 2.0 | **2.9** | 1 | 7/12/00 | 7/12/00 | |
| trans-1,2-Dichloroethene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2-Dichloropropane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,3-Dichloropropane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 2,2-Dichloropropane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1-Dichloropropene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| cis-1,3-Dichloropropene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| trans-1,3-Dichloropropene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Ethylbenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Hexachlorobutadiene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 2-Hexanone | EPA 8260B | P0G1213 | 10 | ND | 1 | 7/12/00 | 7/12/00 | |
| Iodomethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Isopropylbenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0032

Sampled: 07/05/00
Received: 07/05/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0032-03 (MW-9S - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Methylene chloride | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 4-Methyl-2-pentatnone (MIBK) | EPA 8260B | P0G1213 | 10 | ND | 1 | 7/12/00 | 7/12/00 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Naphthalene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| n-Propylbenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Styrene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| **Tetrachloroethene** | EPA 8260B | P0G1213 | 2.0 | **31** | 1 | 7/12/00 | 7/12/00 | |
| Toluene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1,1-Trichloroethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1,2-Trichloroethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Trichloroethene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Trichlorofluoromethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2,3-Trichloropropane | EPA 8260B | P0G1213 | 10 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Vinyl acetate | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Vinyl chloride | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Xylenes, Total | EPA 8260B | P0G1213 | 10 | ND | 1 | 7/12/00 | 7/12/00 | |
| *Surrogate: Dibromofluoromethane (70-160%)* | | | | *96.0 %* | | | | |
| *Surrogate: Toluene-d8 (75-140%)* | | | | *86.8 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (75-135%)* | | | | *94.0 %* | | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0032

Sampled: 07/05/00
Received: 07/05/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0032-04 (Trip Blank - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P0G1213 | 20 | ND | 1 | 7/12/00 | 7/12/00 | |
| Benzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Bromobenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Bromochloromethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Bromodichloromethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Bromoform | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Bromomethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 2-Butanone (MEK) | EPA 8260B | P0G1213 | 10 | ND | 1 | 7/12/00 | 7/12/00 | |
| n-Butylbenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| sec-Butylbenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| tert-Butylbenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Carbon Disulfide | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Carbon tetrachloride | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Chlorobenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Chloroethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Chloroform | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Chloromethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 2-Chlorotoluene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 4-Chlorotoluene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Dibromochloromethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Dibromomethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2-Dichlorobenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,3-Dichlorobenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,4-Dichlorobenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Dichlorodifluoromethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1-Dichloroethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2-Dichloroethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1-Dichloroethene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| cis-1,2-Dichloroethene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| trans-1,2-Dichloroethene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2-Dichloropropane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,3-Dichloropropane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 2,2-Dichloropropane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1-Dichloropropene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| cis-1,3-Dichloropropene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| trans-1,3-Dichloropropene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Ethylbenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Hexachlorobutadiene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 2-Hexanone | EPA 8260B | P0G1213 | 10 | ND | 1 | 7/12/00 | 7/12/00 | |
| Iodomethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Isopropylbenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2

Report Number: PJG0032

Sampled: 07/05/00
Received: 07/05/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0032-04 (Trip Blank - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Methylene chloride | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 4-Methyl-2-pentatnone (MIBK) | EPA 8260B | P0G1213 | 10 | ND | 1 | 7/12/00 | 7/12/00 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Naphthalene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| n-Propylbenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Styrene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Tetrachloroethene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Toluene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1,1-Trichloroethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1,2-Trichloroethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Trichloroethene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Trichlorofluoromethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2,3-Trichloropropane | EPA 8260B | P0G1213 | 10 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Vinyl acetate | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Vinyl chloride | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Xylenes, Total | EPA 8260B | P0G1213 | 10 | ND | 1 | 7/12/00 | 7/12/00 | |
| *Surrogate: Dibromofluoromethane (70-160%)* | | | | *96.0 %* | | | | |
| *Surrogate: Toluene-d8 (75-140%)* | | | | *86.0 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (75-135%)* | | | | *94.0 %* | | | | |

**DEL MAR ANALYTICAL, PHOENIX (AZ0426)**

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2

Report Number: PJG0032

Sampled: 07/05/00
Received: 07/05/00

## ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0032-01 (MW-6D - Water)** | | | | | | | | |
| Acenaphthene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/19/00 | |
| Acenaphthylene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/19/00 | |
| Anthracene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/19/00 | |
| Benzidine | EPA 625 | P0G1012 | 100 | ND | 1 | 7/10/00 | 7/19/00 | |
| Benz(a)anthracene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/19/00 | |
| Benzo(b,k)fluoranthene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/19/00 | |
| Benzo(g,h,i)perylene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/19/00 | |
| Benzo(a)pyrene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/19/00 | |
| Bis(2-chloroethoxy)methane | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/19/00 | |
| Bis(2-chloroethyl)ether | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/19/00 | |
| Bis(2-chloroisopropyl)ether | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/19/00 | |
| Bis(2-ethylhexyl)phthalate | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/19/00 | |
| 4-Bromophenyl phenyl ether | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/19/00 | |
| Butyl benzyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/19/00 | |
| 2-Chloronaphthalene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/19/00 | |
| 4-Chloro-3-methylphenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/19/00 | |
| 2-Chlorophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/19/00 | |
| 4-Chlorophenyl phenyl ether | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/19/00 | |
| Chrysene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/19/00 | |
| Dibenz(a,h)anthracene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/19/00 | |
| Di-n-butyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/19/00 | |
| 1,3-Dichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/19/00 | |
| 1,4-Dichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/19/00 | |
| 1,2-Dichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/19/00 | |
| 3,3-Dichlorobenzidine | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/19/00 | |
| 2,4-Dichlorophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/19/00 | |
| Diethyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/19/00 | |
| 2,4-Dimethylphenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/19/00 | |
| Dimethyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/19/00 | |
| 4,6-Dinitro-2-methylphenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/19/00 | |
| 2,4-Dinitrophenol | EPA 625 | P0G1012 | 30 | ND | 1 | 7/10/00 | 7/19/00 | |
| 2,4-Dinitrotoluene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/19/00 | |
| 2,6-Dinitrotoluene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/19/00 | |
| Di-n-octyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/19/00 | |
| 1,2-Diphenylhydrazine | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/19/00 | |
| Fluoranthene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/19/00 | |
| Fluorene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/19/00 | |
| Hexachlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/19/00 | |
| Hexachlorobutadiene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/19/00 | |
| Hexachlorocyclopentadiene | EPA 625 | P0G1012 | 30 | ND | 1 | 7/10/00 | 7/19/00 | |
| Hexachloroethane | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/19/00 | |
| Indeno(1,2,3-cd)pyrene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/19/00 | |
| Isophorone | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/19/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0032

Sampled: 07/05/00
Received: 07/05/00

## ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0032-01 (MW-6D - Water)** | | | | | | | | |
| Naphthalene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/19/00 | |
| Nitrobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/19/00 | |
| 2-Nitrophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/19/00 | |
| 4-Nitrophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/19/00 | |
| n-Nitrosodiphenylamine | EPA 625 | P0G1012 | 30 | ND | 1 | 7/10/00 | 7/19/00 | |
| n-Nitroso-di-n-propylamine | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/19/00 | |
| Pentachlorophenol | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/19/00 | |
| Phenanthrene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/19/00 | |
| Phenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/19/00 | |
| Pyrene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/19/00 | |
| 1,2,4-Trichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/19/00 | |
| 2,4,6-Trichlorophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/19/00 | |
| n-Nitrosodimethylamine | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/19/00 | |
| *Surrogate: 2-Fluorophenol (21-100%)* | | | | *84.1 %* | | | | |
| *Surrogate: Phenol-d6 (10-94%)* | | | | *86.2 %* | | | | |
| *Surrogate: 2,4,6-Tribromophenol (10-123%)* | | | | *89.3 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (35-114%)* | | | | *94.8 %* | | | | |
| *Surrogate: 2-Fluorobiphenyl (43-116%)* | | | | *76.0 %* | | | | |
| *Surrogate: Terphenyl-d14 (33-141%)* | | | | *99.0 %* | | | | |
| **Sample ID: PJG0032-02 (MW-AM-8S - Water)** | | | | | | | | |
| Acenaphthene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Acenaphthylene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Anthracene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Benzidine | EPA 625 | P0G1012 | 100 | ND | 1 | 7/10/00 | 7/20/00 | |
| Benz(a)anthracene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Benzo(b,k)fluoranthene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Benzo(g,h,i)perylene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| Benzo(a)pyrene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| Bis(2-chloroethoxy)methane | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Bis(2-chloroethyl)ether | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Bis(2-chloroisopropyl)ether | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Bis(2-ethylhexyl)phthalate | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| 4-Bromophenyl phenyl ether | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| Butyl benzyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2-Chloronaphthalene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 4-Chloro-3-methylphenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2-Chlorophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 4-Chlorophenyl phenyl ether | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Chrysene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Dibenz(a,h)anthracene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| Di-n-butyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 1,3-Dichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2

Report Number: PJG0032

Sampled: 07/05/00
Received: 07/05/00

## ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0032-02 (MW-AM-8S - Water)** | | | | | | | | |
| 1,4-Dichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 1,2-Dichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 3,3-Dichlorobenzidine | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2,4-Dichlorophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Diethyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2,4-Dimethylphenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Dimethyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 4,6-Dinitro-2-methylphenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2,4-Dinitrophenol | EPA 625 | P0G1012 | 30 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2,4-Dinitrotoluene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2,6-Dinitrotoluene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Di-n-octyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 1,2-Diphenylhydrazine | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Fluoranthene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Fluorene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Hexachlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Hexachlorobutadiene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| Hexachlorocyclopentadiene | EPA 625 | P0G1012 | 30 | ND | 1 | 7/10/00 | 7/20/00 | |
| Hexachloroethane | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Indeno(1,2,3-cd)pyrene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| Isophorone | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Naphthalene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Nitrobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2-Nitrophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 4-Nitrophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| n-Nitrosodiphenylamine | EPA 625 | P0G1012 | 30 | ND | 1 | 7/10/00 | 7/20/00 | |
| n-Nitroso-di-n-propylamine | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Pentachlorophenol | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| Phenanthrene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Phenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Pyrene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 1,2,4-Trichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2,4,6-Trichlorophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| n-Nitrosodimethylamine | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| *Surrogate: 2-Fluorophenol (21-100%)* | | | | *45.6 %* | | | | |
| *Surrogate: Phenol-d6 (10-94%)* | | | | *45.5 %* | | | | |
| *Surrogate: 2,4,6-Tribromophenol (10-123%)* | | | | *65.4 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (35-114%)* | | | | *89.4 %* | | | | |
| *Surrogate: 2-Fluorobiphenyl (43-116%)* | | | | *68.0 %* | | | | |
| *Surrogate: Terphenyl-d14 (33-141%)* | | | | *92.0 %* | | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0032

Sampled: 07/05/00
Received: 07/05/00

## ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0032-03 (MW-9S - Water)** | | | | | | | | |
| Acenaphthene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Acenaphthylene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Anthracene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Benzidine | EPA 625 | P0G1012 | 100 | ND | 1 | 7/10/00 | 7/20/00 | |
| Benz(a)anthracene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Benzo(b,k)fluoranthene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Benzo(g,h,i)perylene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| Benzo(a)pyrene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| Bis(2-chloroethoxy)methane | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Bis(2-chloroethyl)ether | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Bis(2-chloroisopropyl)ether | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Bis(2-ethylhexyl)phthalate | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| 4-Bromophenyl phenyl ether | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| Butyl benzyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2-Chloronaphthalene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 4-Chloro-3-methylphenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2-Chlorophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 4-Chlorophenyl phenyl ether | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Chrysene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Dibenz(a,h)anthracene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| Di-n-butyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 1,3-Dichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 1,4-Dichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 1,2-Dichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 3,3-Dichlorobenzidine | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2,4-Dichlorophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Diethyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2,4-Dimethylphenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Dimethyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 4,6-Dinitro-2-methylphenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2,4-Dinitrophenol | EPA 625 | P0G1012 | 30 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2,4-Dinitrotoluene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2,6-Dinitrotoluene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Di-n-octyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 1,2-Diphenylhydrazine | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Fluoranthene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Fluorene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Hexachlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Hexachlorobutadiene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| Hexachlorocyclopentadiene | EPA 625 | P0G1012 | 30 | ND | 1 | 7/10/00 | 7/20/00 | |
| Hexachloroethane | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Indeno(1,2,3-cd)pyrene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| Isophorone | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |

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Project Manager



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Law Engineering
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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0032

Sampled: 07/05/00
Received: 07/05/00

## ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0032-03 (MW-9S - Water)** | | | | | | | | |
| Naphthalene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Nitrobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2-Nitrophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 4-Nitrophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| n-Nitrosodiphenylamine | EPA 625 | P0G1012 | 30 | ND | 1 | 7/10/00 | 7/20/00 | |
| n-Nitroso-di-n-propylamine | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Pentachlorophenol | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| Phenanthrene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Phenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Pyrene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 1,2,4-Trichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2,4,6-Trichlorophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| n-Nitrosodimethylamine | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| *Surrogate: 2-Fluorophenol (21-100%)* | | | | *52.0 %* | | | | |
| *Surrogate: Phenol-d6 (10-94%)* | | | | *50.3 %* | | | | |
| *Surrogate: 2,4,6-Tribromophenol (10-123%)* | | | | *80.4 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (35-114%)* | | | | *93.0 %* | | | | |
| *Surrogate: 2-Fluorobiphenyl (43-116%)* | | | | *67.6 %* | | | | |
| *Surrogate: Terphenyl-d14 (33-141%)* | | | | *74.0 %* | | | | |

**DEL MAR ANALYTICAL, PHOENIX (AZ0426)**

Julie M. Slocum
Project Manager



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4634 S. 36th Place
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Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2

Report Number: PJG0032

Sampled: 07/05/00
Received: 07/05/00

## TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | mg/l | mg/l | | | | |
| **Sample ID: PJG0032-01 (MW-6D - Water)** | | | | | | | | |
| Aluminum | EPA 200.7 | P0G1008 | 0.50 | ND | 1 | 7/10/00 | 7/10/00 | |
| Antimony | EPA 200.9 | P0G1023 | 0.0040 | ND | 1 | 7/10/00 | 7/13/00 | |
| Arsenic | EPA 200.9 | P0G1023 | 0.0030 | ND | 1 | 7/10/00 | 7/12/00 | |
| **Barium** | EPA 200.7 | P0G1008 | 0.010 | **0.094** | 1 | 7/10/00 | 7/10/00 | |
| Beryllium | EPA 200.9 | P0G1023 | 0.00050 | ND | 1 | 7/10/00 | 7/13/00 | |
| Cadmium | EPA 200.9 | P0G1023 | 0.00050 | ND | 1 | 7/10/00 | 7/13/00 | C |
| **Calcium** | EPA 200.7 | P0G1008 | 2.0 | **230** | 1 | 7/10/00 | 7/10/00 | |
| **Chromium** | EPA 200.9 | P0G1023 | 0.0040 | **0.0074** | 1 | 7/10/00 | 7/17/00 | S |
| Cobalt | EPA 200.7 | P0G1008 | 0.050 | ND | 1 | 7/10/00 | 7/10/00 | |
| Copper | EPA 200.7 | P0G1008 | 0.020 | ND | 1 | 7/10/00 | 7/10/00 | |
| **Iron** | EPA 200.7 | P0G1008 | 0.10 | **0.14** | 1 | 7/10/00 | 7/10/00 | |
| Lead | EPA 200.7 | P0G1008 | 0.050 | ND | 1 | 7/10/00 | 7/10/00 | |
| **Magnesium** | EPA 200.7 | P0G1008 | 0.50 | **80** | 1 | 7/10/00 | 7/10/00 | |
| Manganese | EPA 200.7 | P0G1008 | 0.020 | ND | 1 | 7/10/00 | 7/10/00 | |
| Nickel | EPA 200.7 | P0G1008 | 0.050 | ND | 1 | 7/10/00 | 7/10/00 | |
| Selenium | EPA 200.9 | P0G1023 | 0.0040 | ND | 1 | 7/10/00 | 7/12/00 | |
| Silver | EPA 200.7 | P0G1008 | 0.0050 | ND | 1 | 7/10/00 | 7/10/00 | |
| **Sodium** | EPA 273.1 | P0G1008 | 5.0 | **470** | 1 | 7/10/00 | 7/11/00 | |
| **Strontium** | EPA 200.7 | P0G1008 | 1.0 | **2.2** | 10 | 7/10/00 | 7/12/00 | |
| Vanadium | EPA 200.7 | P0G1008 | 0.050 | ND | 1 | 7/10/00 | 7/10/00 | |
| Zinc | EPA 200.7 | P0G1008 | 0.050 | ND | 1 | 7/10/00 | 7/10/00 | |
| **Sample ID: PJG0032-02 (MW-AM-8S - Water)** | | | | | | | | |
| Aluminum | EPA 200.7 | P0G1008 | 0.50 | ND | 1 | 7/10/00 | 7/10/00 | |
| Antimony | EPA 200.9 | P0G1023 | 0.0040 | ND | 1 | 7/10/00 | 7/13/00 | |
| **Arsenic** | EPA 200.9 | P0G1023 | 0.0030 | **0.012** | 1 | 7/10/00 | 7/12/00 | |
| **Barium** | EPA 200.7 | P0G1008 | 0.010 | **0.060** | 1 | 7/10/00 | 7/10/00 | |
| Beryllium | EPA 200.9 | P0G1023 | 0.00050 | ND | 1 | 7/10/00 | 7/13/00 | C |
| Cadmium | EPA 200.9 | P0G1023 | 0.00050 | ND | 1 | 7/10/00 | 7/13/00 | C |
| **Calcium** | EPA 200.7 | P0G1008 | 2.0 | **130** | 1 | 7/10/00 | 7/10/00 | |
| **Chromium** | EPA 200.9 | P0G1023 | 0.020 | **0.077** | 5 | 7/10/00 | 7/17/00 | S |
| Cobalt | EPA 200.7 | P0G1008 | 0.050 | ND | 1 | 7/10/00 | 7/10/00 | |
| Copper | EPA 200.7 | P0G1008 | 0.020 | ND | 1 | 7/10/00 | 7/10/00 | |
| **Iron** | EPA 200.7 | P0G1008 | 0.10 | **2.9** | 1 | 7/10/00 | 7/10/00 | |
| Lead | EPA 200.7 | P0G1008 | 0.050 | ND | 1 | 7/10/00 | 7/10/00 | |
| **Magnesium** | EPA 200.7 | P0G1008 | 0.50 | **48** | 1 | 7/10/00 | 7/10/00 | |
| **Manganese** | EPA 200.7 | P0G1008 | 0.020 | **0.21** | 1 | 7/10/00 | 7/10/00 | |
| Nickel | EPA 200.7 | P0G1008 | 0.050 | ND | 1 | 7/10/00 | 7/10/00 | |
| Selenium | EPA 200.9 | P0G1023 | 0.0040 | ND | 1 | 7/10/00 | 7/12/00 | |
| Silver | EPA 200.7 | P0G1008 | 0.0050 | ND | 1 | 7/10/00 | 7/10/00 | |
| **Sodium** | EPA 273.1 | P0G1008 | 10 | **520** | 2 | 7/10/00 | 7/11/00 | |
| **Strontium** | EPA 200.7 | P0G1008 | 0.50 | **1.1** | 5 | 7/10/00 | 7/12/00 | |
| Vanadium | EPA 200.7 | P0G1008 | 0.050 | ND | 1 | 7/10/00 | 7/10/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0032

Sampled: 07/05/00
Received: 07/05/00

## TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | mg/l | mg/l | | | | |
| **Sample ID: PJG0032-02 (MW-AM-8S - Water)** | | | | | | | | |
| Zinc | EPA 200.7 | P0G1008 | 0.050 | ND | 1 | 7/10/00 | 7/10/00 | |
| **Sample ID: PJG0032-03 (MW-9S - Water)** | | | | | | | | |
| Aluminum | EPA 200.7 | P0G1008 | 0.50 | ND | 1 | 7/10/00 | 7/10/00 | |
| Antimony | EPA 200.9 | P0G1023 | 0.0040 | ND | 1 | 7/10/00 | 7/13/00 | |
| **Arsenic** | EPA 200.9 | P0G1023 | 0.0030 | **0.014** | 1 | 7/10/00 | 7/12/00 | |
| **Barium** | EPA 200.7 | P0G1008 | 0.010 | **0.059** | 1 | 7/10/00 | 7/10/00 | |
| Beryllium | EPA 200.9 | P0G1023 | 0.00050 | ND | 1 | 7/10/00 | 7/13/00 | C |
| Cadmium | EPA 200.9 | P0G1023 | 0.00050 | ND | 1 | 7/10/00 | 7/13/00 | C |
| **Calcium** | EPA 200.7 | P0G1008 | 2.0 | **130** | 1 | 7/10/00 | 7/10/00 | |
| **Chromium** | EPA 200.9 | P0G1023 | 0.020 | **0.052** | 5 | 7/10/00 | 7/18/00 | S |
| Cobalt | EPA 200.7 | P0G1008 | 0.050 | ND | 1 | 7/10/00 | 7/10/00 | |
| Copper | EPA 200.7 | P0G1008 | 0.020 | ND | 1 | 7/10/00 | 7/10/00 | |
| **Iron** | EPA 200.7 | P0G1008 | 0.10 | **2.9** | 1 | 7/10/00 | 7/10/00 | |
| Lead | EPA 200.7 | P0G1008 | 0.050 | ND | 1 | 7/10/00 | 7/10/00 | |
| **Magnesium** | EPA 200.7 | P0G1008 | 0.50 | **48** | 1 | 7/10/00 | 7/10/00 | |
| **Manganese** | EPA 200.7 | P0G1008 | 0.020 | **0.20** | 1 | 7/10/00 | 7/10/00 | |
| Nickel | EPA 200.7 | P0G1008 | 0.050 | ND | 1 | 7/10/00 | 7/10/00 | |
| Selenium | EPA 200.9 | P0G1023 | 0.0040 | ND | 1 | 7/10/00 | 7/12/00 | |
| Silver | EPA 200.7 | P0G1008 | 0.0050 | ND | 1 | 7/10/00 | 7/10/00 | |
| **Sodium** | EPA 273.1 | P0G1008 | 10 | **520** | 2 | 7/10/00 | 7/11/00 | |
| **Strontium** | EPA 200.7 | P0G1008 | 0.50 | **1.2** | 5 | 7/10/00 | 7/12/00 | |
| Vanadium | EPA 200.7 | P0G1008 | 0.050 | ND | 1 | 7/10/00 | 7/10/00 | |
| Zinc | EPA 200.7 | P0G1008 | 0.050 | ND | 1 | 7/10/00 | 7/10/00 | |

**DEL MAR ANALYTICAL, PHOENIX (AZ0426)**

Julie M. Slocum
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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2

Report Number: PJG0032

Sampled: 07/05/00
Received: 07/05/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1213 Extracted: 07/12/00** | | | | | | | | | | |
| **Blank Analyzed: 07/12/00 (P0G1213-BLK1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | |
| Benzene | ND | 2.0 | ug/l | | | | | | | |
| Bromobenzene | ND | 5.0 | ug/l | | | | | | | |
| Bromochloromethane | ND | 5.0 | ug/l | | | | | | | |
| Bromodichloromethane | ND | 2.0 | ug/l | | | | | | | |
| Bromoform | ND | 5.0 | ug/l | | | | | | | |
| Bromomethane | ND | 5.0 | ug/l | | | | | | | |
| 2-Butanone (MEK) | ND | 10 | ug/l | | | | | | | |
| n-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| sec-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| tert-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| Carbon Disulfide | ND | 5.0 | ug/l | | | | | | | |
| Carbon tetrachloride | ND | 5.0 | ug/l | | | | | | | |
| Chlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| Chloroethane | ND | 5.0 | ug/l | | | | | | | |
| Chloroform | ND | 2.0 | ug/l | | | | | | | |
| Chloromethane | ND | 5.0 | ug/l | | | | | | | |
| 2-Chlorotoluene | ND | 5.0 | ug/l | | | | | | | |
| 4-Chlorotoluene | ND | 5.0 | ug/l | | | | | | | |
| Dibromochloromethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/l | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 2.0 | ug/l | | | | | | | |
| Dibromomethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| Dichlorodifluoromethane | ND | 5.0 | ug/l | | | | | | | |
| 1,1-Dichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,1-Dichloroethene | ND | 5.0 | ug/l | | | | | | | |

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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0032

Sampled: 07/05/00
Received: 07/05/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1213 Extracted: 07/12/00** | | | | | | | | | | |
| **Blank Analyzed: 07/12/00 (P0G1213-BLK1)** | | | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 2.0 | ug/l | | | | | | | |
| trans-1,2-Dichloroethene | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,3-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 2,2-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,1-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| cis-1,3-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| Ethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 5.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 10 | ug/l | | | | | | | |
| Iodomethane | ND | 2.0 | ug/l | | | | | | | |
| Isopropylbenzene | ND | 2.0 | ug/l | | | | | | | |
| p-Isopropyltoluene | ND | 2.0 | ug/l | | | | | | | |
| Methylene chloride | ND | 5.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentatnone (MIBK) | ND | 10 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 5.0 | ug/l | | | | | | | |
| Naphthalene | ND | 5.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Styrene | ND | 2.0 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/l | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 2.0 | ug/l | | | | | | | |
| Toluene | ND | 2.0 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 5.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,1,2-Trichloroethane | ND | 2.0 | ug/l | | | | | | | |
| Trichloroethene | ND | 2.0 | ug/l | | | | | | | |
| Trichlorofluoromethane | ND | 5.0 | ug/l | | | | | | | |

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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0032

Sampled: 07/05/00
Received: 07/05/00

## METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1213 Extracted: 07/12/00** | | | | | | | | | | |
| **Blank Analyzed: 07/12/00 (P0G1213-BLK1)** | | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 10 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Vinyl acetate | ND | 5.0 | ug/l | | | | | | | |
| Vinyl chloride | ND | 5.0 | ug/l | | | | | | | |
| Xylenes, Total | ND | 10 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *21.9* | | *ug/l* | *25.0* | | *87.6* | *70-160* | | | |
| *Surrogate: Toluene-d8* | *21.9* | | *ug/l* | *25.0* | | *87.6* | *75-140* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *23.3* | | *ug/l* | *25.0* | | *93.2* | *75-135* | | | |
| **LCS Analyzed: 07/12/00 (P0G1213-BS1)** | | | | | | | | | | |
| **Acetone** | **20.7** | 20 | ug/l | 25.0 | | 82.8 | 35-150 | | | |
| **Benzene** | **24.6** | 2.0 | ug/l | 25.0 | | 98.4 | 65-155 | | | |
| **Bromobenzene** | **22.8** | 5.0 | ug/l | 25.0 | | 91.2 | 65-150 | | | |
| **Bromochloromethane** | **23.1** | 5.0 | ug/l | 25.0 | | 92.4 | 60-155 | | | |
| **Bromodichloromethane** | **25.2** | 2.0 | ug/l | 25.0 | | 101 | 60-155 | | | |
| **Bromoform** | **22.4** | 5.0 | ug/l | 25.0 | | 89.6 | 25-160 | | | |
| **Bromomethane** | **52.9** | 5.0 | ug/l | 25.0 | | 212 | 55-170 | | | L |
| **2-Butanone (MEK)** | **20.5** | 10 | ug/l | 25.0 | | 82.0 | 35-165 | | | |
| **n-Butylbenzene** | **25.1** | 5.0 | ug/l | 25.0 | | 100 | 65-140 | | | |
| **sec-Butylbenzene** | **24.9** | 5.0 | ug/l | 25.0 | | 99.6 | 60-145 | | | |
| **tert-Butylbenzene** | **23.6** | 5.0 | ug/l | 25.0 | | 94.4 | 65-145 | | | |
| **Carbon Disulfide** | **34.0** | 5.0 | ug/l | 25.0 | | 136 | 65-155 | | | |
| **Carbon tetrachloride** | **24.4** | 5.0 | ug/l | 25.0 | | 97.6 | 65-150 | | | |
| **Chlorobenzene** | **24.3** | 2.0 | ug/l | 25.0 | | 97.2 | 65-145 | | | |
| **Chloroethane** | **22.6** | 5.0 | ug/l | 25.0 | | 90.4 | 65-165 | | | |
| **Chloroform** | **25.7** | 2.0 | ug/l | 25.0 | | 103 | 70-130 | | | |
| **Chloromethane** | **19.2** | 5.0 | ug/l | 25.0 | | 76.8 | 60-165 | | | |
| **2-Chlorotoluene** | **23.1** | 5.0 | ug/l | 25.0 | | 92.4 | 65-145 | | | |
| **4-Chlorotoluene** | **22.9** | 5.0 | ug/l | 25.0 | | 91.6 | 70-145 | | | |
| **Dibromochloromethane** | **24.6** | 2.0 | ug/l | 25.0 | | 98.4 | 55-155 | | | |

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Project Manager



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Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2

Report Number: PJG0032

Sampled: 07/05/00
Received: 07/05/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1213 Extracted: 07/12/00** | | | | | | | | | | |
| **LCS Analyzed: 07/12/00 (P0G1213-BS1)** | | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | 26.8 | 5.0 | ug/l | 25.0 | | 107 | 40-150 | | | |
| 1,2-Dibromoethane (EDB) | 24.2 | 2.0 | ug/l | 25.0 | | 96.8 | 55-155 | | | |
| Dibromomethane | 25.2 | 2.0 | ug/l | 25.0 | | 101 | 60-155 | | | |
| 1,2-Dichlorobenzene | 24.0 | 2.0 | ug/l | 25.0 | | 96.0 | 65-140 | | | |
| 1,3-Dichlorobenzene | 24.2 | 2.0 | ug/l | 25.0 | | 96.8 | 65-145 | | | |
| 1,4-Dichlorobenzene | 24.6 | 2.0 | ug/l | 25.0 | | 98.4 | 65-140 | | | |
| Dichlorodifluoromethane | 13.1 | 5.0 | ug/l | 25.0 | | 52.4 | 30-190 | | | |
| 1,1-Dichloroethane | 23.2 | 2.0 | ug/l | 25.0 | | 92.8 | 70-130 | | | |
| 1,2-Dichloroethane | 24.8 | 2.0 | ug/l | 25.0 | | 99.2 | 70-130 | | | |
| 1,1-Dichloroethene | 27.9 | 5.0 | ug/l | 25.0 | | 112 | 70-130 | | | |
| cis-1,2-Dichloroethene | 23.9 | 2.0 | ug/l | 25.0 | | 95.6 | 70-130 | | | |
| trans-1,2-Dichloroethene | 26.7 | 2.0 | ug/l | 25.0 | | 107 | 55-175 | | | |
| 1,2-Dichloropropane | 27.2 | 2.0 | ug/l | 25.0 | | 109 | 70-130 | | | |
| 1,3-Dichloropropane | 25.6 | 2.0 | ug/l | 25.0 | | 102 | 60-150 | | | |
| 2,2-Dichloropropane | 21.3 | 2.0 | ug/l | 25.0 | | 85.2 | 15-200 | | | |
| 1,1-Dichloropropene | 24.5 | 2.0 | ug/l | 25.0 | | 98.0 | 65-150 | | | |
| cis-1,3-Dichloropropene | 24.9 | 2.0 | ug/l | 25.0 | | 99.6 | 65-150 | | | |
| trans-1,3-Dichloropropene | 24.5 | 2.0 | ug/l | 25.0 | | 98.0 | 60-150 | | | |
| Ethylbenzene | 22.1 | 2.0 | ug/l | 25.0 | | 88.4 | 60-150 | | | |
| Hexachlorobutadiene | 23.8 | 5.0 | ug/l | 25.0 | | 95.2 | 55-150 | | | |
| 2-Hexanone | 27.3 | 10 | ug/l | 25.0 | | 109 | 35-165 | | | |
| Iodomethane | 20.9 | 2.0 | ug/l | 25.0 | | 83.6 | 65-160 | | | |
| Isopropylbenzene | 24.0 | 2.0 | ug/l | 25.0 | | 96.0 | 65-145 | | | |
| p-Isopropyltoluene | 23.4 | 2.0 | ug/l | 25.0 | | 93.6 | 60-145 | | | |
| Methylene chloride | 27.5 | 5.0 | ug/l | 25.0 | | 110 | 65-160 | | | |
| 4-Methyl-2-pentatnone (MIBK) | 25.9 | 10 | ug/l | 25.0 | | 104 | 40-165 | | | |
| Methyl-tert-butyl Ether (MTBE) | 28.8 | 5.0 | ug/l | 25.0 | | 115 | 60-160 | | | |
| Naphthalene | 24.0 | 5.0 | ug/l | 25.0 | | 96.0 | 50-150 | | | |
| n-Propylbenzene | 25.3 | 2.0 | ug/l | 25.0 | | 101 | 70-145 | | | |
| Styrene | 24.4 | 2.0 | ug/l | 25.0 | | 97.6 | 65-150 | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0032

Sampled: 07/05/00
Received: 07/05/00

METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1213 Extracted: 07/12/00** | | | | | | | | | | |
| **LCS Analyzed: 07/12/00 (P0G1213-BS1)** | | | | | | | | | | |
| **1,1,1,2-Tetrachloroethane** | **22.0** | 5.0 | ug/l | 25.0 | | 88.0 | 60-155 | | | |
| **1,1,2,2-Tetrachloroethane** | **19.9** | 2.0 | ug/l | 25.0 | | 79.6 | 65-150 | | | |
| **Tetrachloroethene** | **24.9** | 2.0 | ug/l | 25.0 | | 99.6 | 70-130 | | | |
| **Toluene** | **24.3** | 2.0 | ug/l | 25.0 | | 97.2 | 75-120 | | | |
| **1,2,3-Trichlorobenzene** | **24.6** | 5.0 | ug/l | 25.0 | | 98.4 | 55-150 | | | |
| **1,2,4-Trichlorobenzene** | **23.7** | 5.0 | ug/l | 25.0 | | 94.8 | 60-145 | | | |
| **1,1,1-Trichloroethane** | **24.3** | 2.0 | ug/l | 25.0 | | 97.2 | 70-130 | | | |
| **1,1,2-Trichloroethane** | **24.6** | 2.0 | ug/l | 25.0 | | 98.4 | 70-130 | | | |
| **Trichloroethene** | **26.6** | 2.0 | ug/l | 25.0 | | 106 | 75-120 | | | |
| **Trichlorofluoromethane** | **17.3** | 5.0 | ug/l | 25.0 | | 69.2 | 10-200 | | | |
| **1,2,3-Trichloropropane** | **22.5** | 10 | ug/l | 25.0 | | 90.0 | 55-150 | | | |
| **1,2,4-Trimethylbenzene** | **23.2** | 2.0 | ug/l | 25.0 | | 92.8 | 65-150 | | | |
| **1,3,5-Trimethylbenzene** | **23.7** | 2.0 | ug/l | 25.0 | | 94.8 | 65-150 | | | |
| **Vinyl acetate** | **26.6** | 5.0 | ug/l | 25.0 | | 106 | 50-160 | | | |
| **Vinyl chloride** | **18.6** | 5.0 | ug/l | 25.0 | | 74.4 | 25-200 | | | |
| **Xylenes, Total** | **73.5** | 10 | ug/l | 75.0 | | 98.0 | 65-145 | | | |
| *Surrogate: Dibromofluoromethane* | *21.4* | | *ug/l* | *25.0* | | *85.6* | *70-160* | | | |
| *Surrogate: Toluene-d8* | *24.0* | | *ug/l* | *25.0* | | *96.0* | *75-140* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *22.4* | | *ug/l* | *25.0* | | *89.6* | *75-135* | | | |
| **LCS Dup Analyzed: 07/12/00 (P0G1213-BSD1)** | | | | | | | | | | |
| **Acetone** | **31.4** | 20 | ug/l | 25.0 | | 126 | 35-150 | 41.1 | 20 | R2 |
| **Benzene** | **22.7** | 2.0 | ug/l | 25.0 | | 90.8 | 65-155 | 8.03 | 20 | |
| **Bromobenzene** | **21.9** | 5.0 | ug/l | 25.0 | | 87.6 | 65-150 | 4.03 | 20 | |
| **Bromochloromethane** | **24.4** | 5.0 | ug/l | 25.0 | | 97.6 | 60-155 | 5.47 | 20 | |
| **Bromodichloromethane** | **23.6** | 2.0 | ug/l | 25.0 | | 94.4 | 60-155 | 6.56 | 20 | |
| **Bromoform** | **23.6** | 5.0 | ug/l | 25.0 | | 94.4 | 25-160 | 5.22 | 20 | |
| **Bromomethane** | **38.8** | 5.0 | ug/l | 25.0 | | 155 | 55-170 | 30.8 | 20 | R2 |
| **2-Butanone (MEK)** | **26.4** | 10 | ug/l | 25.0 | | 106 | 35-165 | 25.2 | 20 | R2 |
| **n-Butylbenzene** | **23.2** | 5.0 | ug/l | 25.0 | | 92.8 | 65-140 | 7.87 | 20 | |
| **sec-Butylbenzene** | **22.1** | 5.0 | ug/l | 25.0 | | 88.4 | 60-145 | 11.9 | 20 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0032

Sampled: 07/05/00
Received: 07/05/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1213 Extracted: 07/12/00** | | | | | | | | | | |
| **LCS Dup Analyzed: 07/12/00 (P0G1213-BSD1)** | | | | | | | | | | |
| tert-Butylbenzene | 21.7 | 5.0 | ug/l | 25.0 | | 86.8 | 65-145 | 8.39 | 20 | |
| Carbon Disulfide | 31.8 | 5.0 | ug/l | 25.0 | | 127 | 65-155 | 6.69 | 20 | |
| Carbon tetrachloride | 22.5 | 5.0 | ug/l | 25.0 | | 90.0 | 65-150 | 8.10 | 20 | |
| Chlorobenzene | 21.9 | 2.0 | ug/l | 25.0 | | 87.6 | 65-145 | 10.4 | 20 | |
| Chloroethane | 19.2 | 5.0 | ug/l | 25.0 | | 76.8 | 65-165 | 16.3 | 20 | |
| Chloroform | 24.5 | 2.0 | ug/l | 25.0 | | 98.0 | 70-130 | 4.78 | 20 | |
| Chloromethane | 17.3 | 5.0 | ug/l | 25.0 | | 69.2 | 60-165 | 10.4 | 20 | |
| 2-Chlorotoluene | 22.3 | 5.0 | ug/l | 25.0 | | 89.2 | 65-145 | 3.52 | 20 | |
| 4-Chlorotoluene | 22.1 | 5.0 | ug/l | 25.0 | | 88.4 | 70-145 | 3.56 | 20 | |
| Dibromochloromethane | 23.4 | 2.0 | ug/l | 25.0 | | 93.6 | 55-155 | 5.00 | 20 | |
| 1,2-Dibromo-3-chloropropane | 26.3 | 5.0 | ug/l | 25.0 | | 105 | 40-150 | 1.88 | 20 | |
| 1,2-Dibromoethane (EDB) | 23.2 | 2.0 | ug/l | 25.0 | | 92.8 | 55-155 | 4.22 | 20 | |
| Dibromomethane | 24.5 | 2.0 | ug/l | 25.0 | | 98.0 | 60-155 | 2.82 | 20 | |
| 1,2-Dichlorobenzene | 22.0 | 2.0 | ug/l | 25.0 | | 88.0 | 65-140 | 8.70 | 20 | |
| 1,3-Dichlorobenzene | 21.9 | 2.0 | ug/l | 25.0 | | 87.6 | 65-145 | 9.98 | 20 | |
| 1,4-Dichlorobenzene | 22.0 | 2.0 | ug/l | 25.0 | | 88.0 | 65-140 | 11.2 | 20 | |
| Dichlorodifluoromethane | 11.3 | 5.0 | ug/l | 25.0 | | 45.2 | 30-190 | 14.8 | 20 | |
| 1,1-Dichloroethane | 22.9 | 2.0 | ug/l | 25.0 | | 91.6 | 70-130 | 1.30 | 20 | |
| 1,2-Dichloroethane | 23.7 | 2.0 | ug/l | 25.0 | | 94.8 | 70-130 | 4.54 | 20 | |
| 1,1-Dichloroethene | 24.9 | 5.0 | ug/l | 25.0 | | 99.6 | 70-130 | 11.4 | 20 | |
| cis-1,2-Dichloroethene | 22.1 | 2.0 | ug/l | 25.0 | | 88.4 | 70-130 | 7.83 | 20 | |
| trans-1,2-Dichloroethene | 24.9 | 2.0 | ug/l | 25.0 | | 99.6 | 55-175 | 6.98 | 20 | |
| 1,2-Dichloropropane | 25.4 | 2.0 | ug/l | 25.0 | | 102 | 70-130 | 6.84 | 20 | |
| 1,3-Dichloropropane | 23.6 | 2.0 | ug/l | 25.0 | | 94.4 | 60-150 | 8.13 | 20 | |
| 2,2-Dichloropropane | 17.5 | 2.0 | ug/l | 25.0 | | 70.0 | 15-200 | 19.6 | 20 | |
| 1,1-Dichloropropene | 22.9 | 2.0 | ug/l | 25.0 | | 91.6 | 65-150 | 6.75 | 20 | |
| cis-1,3-Dichloropropene | 22.1 | 2.0 | ug/l | 25.0 | | 88.4 | 65-150 | 11.9 | 20 | |
| trans-1,3-Dichloropropene | 21.2 | 2.0 | ug/l | 25.0 | | 84.8 | 60-150 | 14.4 | 20 | |
| Ethylbenzene | 21.2 | 2.0 | ug/l | 25.0 | | 84.8 | 60-150 | 4.16 | 20 | |
| Hexachlorobutadiene | 22.1 | 5.0 | ug/l | 25.0 | | 88.4 | 55-150 | 7.41 | 20 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2

Report Number: PJG0032

Sampled: 07/05/00
Received: 07/05/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1213 Extracted: 07/12/00** | | | | | | | | | | |
| **LCS Dup Analyzed: 07/12/00 (P0G1213-BSD1)** | | | | | | | | | | |
| **2-Hexanone** | **27.9** | 10 | ug/l | 25.0 | | 112 | 35-165 | 2.17 | 20 | |
| **Iodomethane** | **17.5** | 2.0 | ug/l | 25.0 | | 70.0 | 65-160 | 17.7 | 20 | |
| **Isopropylbenzene** | **21.4** | 2.0 | ug/l | 25.0 | | 85.6 | 65-145 | 11.5 | 20 | |
| **p-Isopropyltoluene** | **21.9** | 2.0 | ug/l | 25.0 | | 87.6 | 60-145 | 6.62 | 20 | |
| **Methylene chloride** | **25.0** | 5.0 | ug/l | 25.0 | | 100 | 65-160 | 9.52 | 20 | |
| **4-Methyl-2-pentatnone (MIBK)** | **26.6** | 10 | ug/l | 25.0 | | 106 | 40-165 | 2.67 | 20 | |
| **Methyl-tert-butyl Ether (MTBE)** | **27.9** | 5.0 | ug/l | 25.0 | | 112 | 60-160 | 3.17 | 20 | |
| **Naphthalene** | **23.5** | 5.0 | ug/l | 25.0 | | 94.0 | 50-150 | 2.11 | 20 | |
| **n-Propylbenzene** | **23.4** | 2.0 | ug/l | 25.0 | | 93.6 | 70-145 | 7.80 | 20 | |
| **Styrene** | **22.1** | 2.0 | ug/l | 25.0 | | 88.4 | 65-150 | 9.89 | 20 | |
| **1,1,1,2-Tetrachloroethane** | **22.4** | 5.0 | ug/l | 25.0 | | 89.6 | 60-155 | 1.80 | 20 | |
| **1,1,2,2-Tetrachloroethane** | **25.6** | 2.0 | ug/l | 25.0 | | 102 | 65-150 | 25.1 | 20 | R2 |
| **Tetrachloroethene** | **23.0** | 2.0 | ug/l | 25.0 | | 92.0 | 70-130 | 7.93 | 20 | |
| **Toluene** | **23.1** | 2.0 | ug/l | 25.0 | | 92.4 | 75-120 | 5.06 | 20 | |
| **1,2,3-Trichlorobenzene** | **22.0** | 5.0 | ug/l | 25.0 | | 88.0 | 55-150 | 11.2 | 20 | |
| **1,2,4-Trichlorobenzene** | **21.9** | 5.0 | ug/l | 25.0 | | 87.6 | 60-145 | 7.89 | 20 | |
| **1,1,1-Trichloroethane** | **23.1** | 2.0 | ug/l | 25.0 | | 92.4 | 70-130 | 5.06 | 20 | |
| **1,1,2-Trichloroethane** | **23.4** | 2.0 | ug/l | 25.0 | | 93.6 | 70-130 | 5.00 | 20 | |
| **Trichloroethene** | **22.5** | 2.0 | ug/l | 25.0 | | 90.0 | 75-120 | 16.7 | 20 | |
| **Trichlorofluoromethane** | **15.3** | 5.0 | ug/l | 25.0 | | 61.2 | 10-200 | 12.3 | 20 | |
| **1,2,3-Trichloropropane** | **23.4** | 10 | ug/l | 25.0 | | 93.6 | 55-150 | 3.92 | 20 | |
| **1,2,4-Trimethylbenzene** | **22.0** | 2.0 | ug/l | 25.0 | | 88.0 | 65-150 | 5.31 | 20 | |
| **1,3,5-Trimethylbenzene** | **21.8** | 2.0 | ug/l | 25.0 | | 87.2 | 65-150 | 8.35 | 20 | |
| **Vinyl acetate** | **25.9** | 5.0 | ug/l | 25.0 | | 104 | 50-160 | 2.67 | 20 | |
| **Vinyl chloride** | **17.1** | 5.0 | ug/l | 25.0 | | 68.4 | 25-200 | 8.40 | 20 | |
| **Xylenes, Total** | **65.4** | 10 | ug/l | 75.0 | | 87.2 | 65-145 | 11.7 | 20 | |
| *Surrogate: Dibromofluoromethane* | *24.3* | | *ug/l* | *25.0* | | *97.2* | *70-160* | | | |
| *Surrogate: Toluene-d8* | *23.8* | | *ug/l* | *25.0* | | *95.2* | *75-140* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *22.8* | | *ug/l* | *25.0* | | *91.2* | *75-135* | | | |

Julie M. Slocum
Project Manager



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Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2

Report Number: PJG0032

Sampled: 07/05/00
Received: 07/05/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1213 Extracted: 07/12/00** | | | | | | | | | | |
| **Matrix Spike Analyzed: 07/12/00 (P0G1213-MS1)** | | | | | Source: PJG0032-01 | | | | | |
| Acetone | 28.3 | 20 | ug/l | 25.0 | ND | 113 | 35-150 | | | |
| Benzene | 22.8 | 2.0 | ug/l | 25.0 | ND | 91.2 | 65-155 | | | |
| Bromobenzene | 22.6 | 5.0 | ug/l | 25.0 | ND | 90.4 | 65-150 | | | |
| Bromochloromethane | 23.3 | 5.0 | ug/l | 25.0 | ND | 93.2 | 60-155 | | | |
| Bromodichloromethane | 24.0 | 2.0 | ug/l | 25.0 | ND | 96.0 | 60-155 | | | |
| Bromoform | 24.9 | 5.0 | ug/l | 25.0 | ND | 99.6 | 25-160 | | | |
| Bromomethane | 38.7 | 5.0 | ug/l | 25.0 | ND | 155 | 55-170 | | | |
| 2-Butanone (MEK) | 30.5 | 10 | ug/l | 25.0 | ND | 122 | 35-165 | | | |
| n-Butylbenzene | 24.3 | 5.0 | ug/l | 25.0 | ND | 97.2 | 65-140 | | | |
| sec-Butylbenzene | 23.3 | 5.0 | ug/l | 25.0 | ND | 93.2 | 60-145 | | | |
| tert-Butylbenzene | 22.6 | 5.0 | ug/l | 25.0 | ND | 90.4 | 65-145 | | | |
| Carbon Disulfide | 31.0 | 5.0 | ug/l | 25.0 | ND | 124 | 65-155 | | | |
| Carbon tetrachloride | 22.4 | 5.0 | ug/l | 25.0 | ND | 89.6 | 65-150 | | | |
| Chlorobenzene | 21.8 | 2.0 | ug/l | 25.0 | ND | 87.2 | 65-145 | | | |
| Chloroethane | 19.7 | 5.0 | ug/l | 25.0 | ND | 78.8 | 65-165 | | | |
| Chloroform | 24.6 | 2.0 | ug/l | 25.0 | ND | 98.4 | 70-130 | | | |
| Chloromethane | 17.3 | 5.0 | ug/l | 25.0 | ND | 69.2 | 60-165 | | | |
| 2-Chlorotoluene | 22.4 | 5.0 | ug/l | 25.0 | ND | 89.6 | 65-145 | | | |
| 4-Chlorotoluene | 22.3 | 5.0 | ug/l | 25.0 | ND | 89.2 | 70-145 | | | |
| Dibromochloromethane | 24.6 | 2.0 | ug/l | 25.0 | ND | 98.4 | 55-155 | | | |
| 1,2-Dibromo-3-chloropropane | 26.9 | 5.0 | ug/l | 25.0 | ND | 108 | 40-150 | | | |
| 1,2-Dibromoethane (EDB) | 24.0 | 2.0 | ug/l | 25.0 | ND | 96.0 | 55-155 | | | |
| Dibromomethane | 24.1 | 2.0 | ug/l | 25.0 | ND | 96.4 | 60-155 | | | |
| 1,2-Dichlorobenzene | 22.6 | 2.0 | ug/l | 25.0 | ND | 90.4 | 65-140 | | | |
| 1,3-Dichlorobenzene | 23.0 | 2.0 | ug/l | 25.0 | ND | 92.0 | 65-145 | | | |
| 1,4-Dichlorobenzene | 22.9 | 2.0 | ug/l | 25.0 | ND | 91.6 | 65-140 | | | |
| Dichlorodifluoromethane | 11.3 | 5.0 | ug/l | 25.0 | ND | 45.2 | 30-190 | | | |
| 1,1-Dichloroethane | 22.2 | 2.0 | ug/l | 25.0 | ND | 88.8 | 70-130 | | | |
| 1,2-Dichloroethane | 23.3 | 2.0 | ug/l | 25.0 | ND | 93.2 | 70-130 | | | |
| 1,1-Dichloroethene | 24.9 | 5.0 | ug/l | 25.0 | ND | 99.6 | 55-125 | | | |

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Report Number: PJG0032

Sampled: 07/05/00
Received: 07/05/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1213 Extracted: 07/12/00** | | | | | | | | | | |
| **Matrix Spike Analyzed: 07/12/00 (P0G1213-MS1)** | | | | | **Source: PJG0032-01** | | | | | |
| cis-1,2-Dichloroethene | 21.9 | 2.0 | ug/l | 25.0 | ND | 87.6 | 70-130 | | | |
| trans-1,2-Dichloroethene | 24.8 | 2.0 | ug/l | 25.0 | ND | 99.2 | 55-175 | | | |
| 1,2-Dichloropropane | 24.7 | 2.0 | ug/l | 25.0 | ND | 98.8 | 70-130 | | | |
| 1,3-Dichloropropane | 24.4 | 2.0 | ug/l | 25.0 | ND | 97.6 | 60-150 | | | |
| 2,2-Dichloropropane | 17.2 | 2.0 | ug/l | 25.0 | ND | 68.8 | 15-200 | | | |
| 1,1-Dichloropropene | 23.0 | 2.0 | ug/l | 25.0 | ND | 92.0 | 65-150 | | | |
| cis-1,3-Dichloropropene | 22.4 | 2.0 | ug/l | 25.0 | ND | 89.6 | 65-150 | | | |
| trans-1,3-Dichloropropene | 21.6 | 2.0 | ug/l | 25.0 | ND | 86.4 | 60-150 | | | |
| Ethylbenzene | 21.5 | 2.0 | ug/l | 25.0 | ND | 86.0 | 60-150 | | | |
| Hexachlorobutadiene | 23.6 | 5.0 | ug/l | 25.0 | ND | 94.4 | 55-150 | | | |
| 2-Hexanone | 28.9 | 10 | ug/l | 25.0 | ND | 116 | 35-165 | | | |
| Iodomethane | 17.5 | 2.0 | ug/l | 25.0 | ND | 70.0 | 65-160 | | | |
| Isopropylbenzene | 22.0 | 2.0 | ug/l | 25.0 | ND | 88.0 | 65-145 | | | |
| p-Isopropyltoluene | 23.0 | 2.0 | ug/l | 25.0 | ND | 92.0 | 60-145 | | | |
| Methylene chloride | 25.4 | 5.0 | ug/l | 25.0 | ND | 102 | 65-160 | | | |
| 4-Methyl-2-pentatnone (MIBK) | 27.7 | 10 | ug/l | 25.0 | ND | 111 | 40-165 | | | |
| Methyl-tert-butyl Ether (MTBE) | 28.3 | 5.0 | ug/l | 25.0 | ND | 113 | 60-160 | | | |
| Naphthalene | 24.9 | 5.0 | ug/l | 25.0 | ND | 99.6 | 50-150 | | | |
| n-Propylbenzene | 24.2 | 2.0 | ug/l | 25.0 | ND | 96.8 | 70-145 | | | |
| Styrene | 21.1 | 2.0 | ug/l | 25.0 | ND | 84.4 | 65-150 | | | |
| 1,1,1,2-Tetrachloroethane | 22.5 | 5.0 | ug/l | 25.0 | ND | 90.0 | 60-155 | | | |
| 1,1,2,2-Tetrachloroethane | 27.6 | 2.0 | ug/l | 25.0 | ND | 110 | 65-150 | | | |
| Tetrachloroethene | 23.1 | 2.0 | ug/l | 25.0 | ND | 92.4 | 70-130 | | | |
| Toluene | 22.5 | 2.0 | ug/l | 25.0 | ND | 90.0 | 75-120 | | | |
| 1,2,3-Trichlorobenzene | 23.3 | 5.0 | ug/l | 25.0 | ND | 93.2 | 55-150 | | | |
| 1,2,4-Trichlorobenzene | 22.4 | 5.0 | ug/l | 25.0 | ND | 89.6 | 60-145 | | | |
| 1,1,1-Trichloroethane | 22.5 | 2.0 | ug/l | 25.0 | ND | 90.0 | 70-130 | | | |
| 1,1,2-Trichloroethane | 23.8 | 2.0 | ug/l | 25.0 | ND | 95.2 | 70-130 | | | |
| Trichloroethene | 22.3 | 2.0 | ug/l | 25.0 | ND | 89.2 | 75-120 | | | |
| Trichlorofluoromethane | 15.1 | 5.0 | ug/l | 25.0 | ND | 60.4 | 10-200 | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0032

Sampled: 07/05/00
Received: 07/05/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1213 Extracted: 07/12/00** | | | | | | | | | | |
| **Matrix Spike Analyzed: 07/12/00 (P0G1213-MS1)** | | | | | **Source: PJG0032-01** | | | | | |
| **1,2,3-Trichloropropane** | **25.2** | 10 | ug/l | 25.0 | ND | 101 | 55-150 | | | |
| **1,2,4-Trimethylbenzene** | **22.6** | 2.0 | ug/l | 25.0 | ND | 90.4 | 65-150 | | | |
| **1,3,5-Trimethylbenzene** | **22.9** | 2.0 | ug/l | 25.0 | ND | 91.6 | 65-150 | | | |
| **Vinyl acetate** | **23.0** | 5.0 | ug/l | 25.0 | ND | 92.0 | 50-160 | | | |
| **Vinyl chloride** | **17.0** | 5.0 | ug/l | 25.0 | ND | 68.0 | 25-200 | | | |
| **Xylenes, Total** | **65.1** | 10 | ug/l | 75.0 | ND | 86.8 | 65-145 | | | |
| *Surrogate: Dibromofluoromethane* | *24.0* | | *ug/l* | *25.0* | | *96.0* | *70-160* | | | |
| *Surrogate: Toluene-d8* | *23.4* | | *ug/l* | *25.0* | | *93.6* | *75-140* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *22.9* | | *ug/l* | *25.0* | | *91.6* | *75-135* | | | |
| **Matrix Spike Dup Analyzed: 07/12/00 (P0G1213-MSD1)** | | | | | **Source: PJG0032-01** | | | | | |
| **Acetone** | **25.0** | 20 | ug/l | 25.0 | ND | 100 | 35-150 | 12.4 | 20 | |
| **Benzene** | **22.5** | 2.0 | ug/l | 25.0 | ND | 90.0 | 65-155 | 1.32 | 20 | |
| **Bromobenzene** | **22.1** | 5.0 | ug/l | 25.0 | ND | 88.4 | 65-150 | 2.24 | 20 | |
| **Bromochloromethane** | **23.0** | 5.0 | ug/l | 25.0 | ND | 92.0 | 60-155 | 1.30 | 20 | |
| **Bromodichloromethane** | **23.3** | 2.0 | ug/l | 25.0 | ND | 93.2 | 60-155 | 2.96 | 20 | |
| **Bromoform** | **23.9** | 5.0 | ug/l | 25.0 | ND | 95.6 | 25-160 | 4.10 | 20 | |
| **Bromomethane** | **38.7** | 5.0 | ug/l | 25.0 | ND | 155 | 55-170 | 0 | 20 | |
| **2-Butanone (MEK)** | **30.7** | 10 | ug/l | 25.0 | ND | 123 | 35-165 | 0.654 | 20 | |
| **n-Butylbenzene** | **24.0** | 5.0 | ug/l | 25.0 | ND | 96.0 | 65-140 | 1.24 | 20 | |
| **sec-Butylbenzene** | **22.8** | 5.0 | ug/l | 25.0 | ND | 91.2 | 60-145 | 2.17 | 20 | |
| **tert-Butylbenzene** | **22.9** | 5.0 | ug/l | 25.0 | ND | 91.6 | 65-145 | 1.32 | 20 | |
| **Carbon Disulfide** | **31.6** | 5.0 | ug/l | 25.0 | ND | 126 | 65-155 | 1.92 | 20 | |
| **Carbon tetrachloride** | **22.4** | 5.0 | ug/l | 25.0 | ND | 89.6 | 65-150 | 0 | 20 | |
| **Chlorobenzene** | **21.5** | 2.0 | ug/l | 25.0 | ND | 86.0 | 65-145 | 1.39 | 20 | |
| **Chloroethane** | **20.2** | 5.0 | ug/l | 25.0 | ND | 80.8 | 65-165 | 2.51 | 20 | |
| **Chloroform** | **24.1** | 2.0 | ug/l | 25.0 | ND | 96.4 | 70-130 | 2.05 | 20 | |
| **Chloromethane** | **17.9** | 5.0 | ug/l | 25.0 | ND | 71.6 | 60-165 | 3.41 | 20 | |
| **2-Chlorotoluene** | **22.0** | 5.0 | ug/l | 25.0 | ND | 88.0 | 65-145 | 1.80 | 20 | |
| **4-Chlorotoluene** | **21.9** | 5.0 | ug/l | 25.0 | ND | 87.6 | 70-145 | 1.81 | 20 | |
| **Dibromochloromethane** | **23.1** | 2.0 | ug/l | 25.0 | ND | 92.4 | 55-155 | 6.29 | 20 | |

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Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2

Report Number: PJG0032

Sampled: 07/05/00
Received: 07/05/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1213 Extracted: 07/12/00** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 07/12/00 (P0G1213-MSD1)** | | | | | **Source: PJG0032-01** | | | | | |
| **1,2-Dibromo-3-chloropropane** | **26.8** | 5.0 | ug/l | 25.0 | ND | 107 | 40-150 | 0.372 | 20 | |
| **1,2-Dibromoethane (EDB)** | **22.6** | 2.0 | ug/l | 25.0 | ND | 90.4 | 55-155 | 6.01 | 20 | |
| **Dibromomethane** | **24.0** | 2.0 | ug/l | 25.0 | ND | 96.0 | 60-155 | 0.416 | 20 | |
| **1,2-Dichlorobenzene** | **22.0** | 2.0 | ug/l | 25.0 | ND | 88.0 | 65-140 | 2.69 | 20 | |
| **1,3-Dichlorobenzene** | **21.8** | 2.0 | ug/l | 25.0 | ND | 87.2 | 65-145 | 5.36 | 20 | |
| **1,4-Dichlorobenzene** | **22.1** | 2.0 | ug/l | 25.0 | ND | 88.4 | 65-140 | 3.56 | 20 | |
| **Dichlorodifluoromethane** | **11.5** | 5.0 | ug/l | 25.0 | ND | 46.0 | 30-190 | 1.75 | 20 | |
| **1,1-Dichloroethane** | **22.7** | 2.0 | ug/l | 25.0 | ND | 90.8 | 70-130 | 2.23 | 20 | |
| **1,2-Dichloroethane** | **22.9** | 2.0 | ug/l | 25.0 | ND | 91.6 | 70-130 | 1.73 | 20 | |
| **1,1-Dichloroethene** | **25.2** | 5.0 | ug/l | 25.0 | ND | 101 | 55-125 | 1.20 | 20 | |
| **cis-1,2-Dichloroethene** | **21.7** | 2.0 | ug/l | 25.0 | ND | 86.8 | 70-130 | 0.917 | 20 | |
| **trans-1,2-Dichloroethene** | **24.9** | 2.0 | ug/l | 25.0 | ND | 99.6 | 55-175 | 0.402 | 20 | |
| **1,2-Dichloropropane** | **25.9** | 2.0 | ug/l | 25.0 | ND | 104 | 70-130 | 4.74 | 20 | |
| **1,3-Dichloropropane** | **23.4** | 2.0 | ug/l | 25.0 | ND | 93.6 | 60-150 | 4.18 | 20 | |
| **2,2-Dichloropropane** | **16.5** | 2.0 | ug/l | 25.0 | ND | 66.0 | 15-200 | 4.15 | 20 | |
| **1,1-Dichloropropene** | **22.9** | 2.0 | ug/l | 25.0 | ND | 91.6 | 65-150 | 0.436 | 20 | |
| **cis-1,3-Dichloropropene** | **21.7** | 2.0 | ug/l | 25.0 | ND | 86.8 | 65-150 | 3.17 | 20 | |
| **trans-1,3-Dichloropropene** | **21.0** | 2.0 | ug/l | 25.0 | ND | 84.0 | 60-150 | 2.82 | 20 | |
| **Ethylbenzene** | **20.7** | 2.0 | ug/l | 25.0 | ND | 82.8 | 60-150 | 3.79 | 20 | |
| **Hexachlorobutadiene** | **23.8** | 5.0 | ug/l | 25.0 | ND | 95.2 | 55-150 | 0.844 | 20 | |
| **2-Hexanone** | **26.4** | 10 | ug/l | 25.0 | ND | 106 | 35-165 | 9.04 | 20 | |
| **Iodomethane** | **18.4** | 2.0 | ug/l | 25.0 | ND | 73.6 | 65-160 | 5.01 | 20 | |
| **Isopropylbenzene** | **21.4** | 2.0 | ug/l | 25.0 | ND | 85.6 | 65-145 | 2.76 | 20 | |
| **p-Isopropyltoluene** | **22.5** | 2.0 | ug/l | 25.0 | ND | 90.0 | 60-145 | 2.20 | 20 | |
| **Methylene chloride** | **26.1** | 5.0 | ug/l | 25.0 | ND | 104 | 65-160 | 2.72 | 20 | |
| **4-Methyl-2-pentatnone (MIBK)** | **26.6** | 10 | ug/l | 25.0 | ND | 106 | 40-165 | 4.05 | 20 | |
| **Methyl-tert-butyl Ether (MTBE)** | **27.8** | 5.0 | ug/l | 25.0 | ND | 111 | 60-160 | 1.78 | 20 | |
| **Naphthalene** | **24.3** | 5.0 | ug/l | 25.0 | ND | 97.2 | 50-150 | 2.44 | 20 | |
| **n-Propylbenzene** | **23.8** | 2.0 | ug/l | 25.0 | ND | 95.2 | 70-145 | 1.67 | 20 | |
| **Styrene** | **20.4** | 2.0 | ug/l | 25.0 | ND | 81.6 | 65-150 | 3.37 | 20 | |

Julie M. Slocum
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Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0032

Sampled: 07/05/00
Received: 07/05/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1213 Extracted: 07/12/00** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 07/12/00 (P0G1213-MSD1)** | | | | | **Source: PJG0032-01** | | | | | |
| **1,1,1,2-Tetrachloroethane** | **21.9** | 5.0 | ug/l | 25.0 | ND | 87.6 | 60-155 | 2.70 | 20 | |
| **1,1,2,2-Tetrachloroethane** | **25.6** | 2.0 | ug/l | 25.0 | ND | 102 | 65-150 | 7.52 | 20 | |
| **Tetrachloroethene** | **22.4** | 2.0 | ug/l | 25.0 | ND | 89.6 | 70-130 | 3.08 | 20 | |
| **Toluene** | **21.6** | 2.0 | ug/l | 25.0 | ND | 86.4 | 75-120 | 4.08 | 20 | |
| **1,2,3-Trichlorobenzene** | **23.4** | 5.0 | ug/l | 25.0 | ND | 93.6 | 55-150 | 0.428 | 20 | |
| **1,2,4-Trichlorobenzene** | **22.5** | 5.0 | ug/l | 25.0 | ND | 90.0 | 60-145 | 0.445 | 20 | |
| **1,1,1-Trichloroethane** | **22.2** | 2.0 | ug/l | 25.0 | ND | 88.8 | 70-130 | 1.34 | 20 | |
| **1,1,2-Trichloroethane** | **22.7** | 2.0 | ug/l | 25.0 | ND | 90.8 | 70-130 | 4.73 | 20 | |
| **Trichloroethene** | **22.6** | 2.0 | ug/l | 25.0 | ND | 90.4 | 75-120 | 1.34 | 20 | |
| **Trichlorofluoromethane** | **15.6** | 5.0 | ug/l | 25.0 | ND | 62.4 | 10-200 | 3.26 | 20 | |
| **1,2,3-Trichloropropane** | **24.9** | 10 | ug/l | 25.0 | ND | 99.6 | 55-150 | 1.20 | 20 | |
| **1,2,4-Trimethylbenzene** | **22.4** | 2.0 | ug/l | 25.0 | ND | 89.6 | 65-150 | 0.889 | 20 | |
| **1,3,5-Trimethylbenzene** | **22.4** | 2.0 | ug/l | 25.0 | ND | 89.6 | 65-150 | 2.21 | 20 | |
| **Vinyl acetate** | **23.0** | 5.0 | ug/l | 25.0 | ND | 92.0 | 50-160 | 0 | 20 | |
| **Vinyl chloride** | **17.4** | 5.0 | ug/l | 25.0 | ND | 69.6 | 25-200 | 2.33 | 20 | |
| **Xylenes, Total** | **62.7** | 10 | ug/l | 75.0 | ND | 83.6 | 65-145 | 3.76 | 20 | |
| *Surrogate: Dibromofluoromethane* | *24.1* | | *ug/l* | *25.0* | | *96.4* | *70-160* | | | |
| *Surrogate: Toluene-d8* | *22.9* | | *ug/l* | *25.0* | | *91.6* | *75-140* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *22.3* | | *ug/l* | *25.0* | | *89.2* | *75-135* | | | |

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4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0032

Sampled: 07/05/00
Received: 07/05/00

METHOD BLANK/QC DATA

# ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1012 Extracted: 07/10/00** | | | | | | | | | | |
| **Blank Analyzed: 07/19/00 (P0G1012-BLK1)** | | | | | | | | | | |
| Acenaphthene | ND | 10 | ug/l | | | | | | | |
| Acenaphthylene | ND | 10 | ug/l | | | | | | | |
| Anthracene | ND | 10 | ug/l | | | | | | | |
| Benzidine | ND | 100 | ug/l | | | | | | | |
| Benz(a)anthracene | ND | 10 | ug/l | | | | | | | |
| Benzo(b,k)fluoranthene | ND | 10 | ug/l | | | | | | | |
| Benzo(g,h,i)perylene | ND | 20 | ug/l | | | | | | | |
| Benzo(a)pyrene | ND | 20 | ug/l | | | | | | | |
| Bis(2-chloroethoxy)methane | ND | 10 | ug/l | | | | | | | |
| Bis(2-chloroethyl)ether | ND | 10 | ug/l | | | | | | | |
| Bis(2-chloroisopropyl)ether | ND | 10 | ug/l | | | | | | | |
| Bis(2-ethylhexyl)phthalate | ND | 20 | ug/l | | | | | | | |
| 4-Bromophenyl phenyl ether | ND | 20 | ug/l | | | | | | | |
| Butyl benzyl phthalate | ND | 10 | ug/l | | | | | | | |
| 2-Chloronaphthalene | ND | 10 | ug/l | | | | | | | |
| 4-Chloro-3-methylphenol | ND | 10 | ug/l | | | | | | | |
| 2-Chlorophenol | ND | 10 | ug/l | | | | | | | |
| 4-Chlorophenyl phenyl ether | ND | 10 | ug/l | | | | | | | |
| Chrysene | ND | 10 | ug/l | | | | | | | |
| Dibenz(a,h)anthracene | ND | 20 | ug/l | | | | | | | |
| Di-n-butyl phthalate | ND | 10 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 10 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 10 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 10 | ug/l | | | | | | | |
| 3,3-Dichlorobenzidine | ND | 20 | ug/l | | | | | | | |
| 2,4-Dichlorophenol | ND | 10 | ug/l | | | | | | | |
| Diethyl phthalate | ND | 10 | ug/l | | | | | | | |
| 2,4-Dimethylphenol | ND | 10 | ug/l | | | | | | | |
| Dimethyl phthalate | ND | 10 | ug/l | | | | | | | |
| 4,6-Dinitro-2-methylphenol | ND | 10 | ug/l | | | | | | | |

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Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0032

Sampled: 07/05/00
Received: 07/05/00

METHOD BLANK/QC DATA

# ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1012 Extracted: 07/10/00** | | | | | | | | | | |
| **Blank Analyzed: 07/19/00 (P0G1012-BLK1)** | | | | | | | | | | |
| 2,4-Dinitrophenol | ND | 30 | ug/l | | | | | | | |
| 2,4-Dinitrotoluene | ND | 10 | ug/l | | | | | | | |
| 2,6-Dinitrotoluene | ND | 10 | ug/l | | | | | | | |
| Di-n-octyl phthalate | ND | 10 | ug/l | | | | | | | |
| 1,2-Diphenylhydrazine | ND | 10 | ug/l | | | | | | | |
| Fluoranthene | ND | 10 | ug/l | | | | | | | |
| Fluorene | ND | 10 | ug/l | | | | | | | |
| Hexachlorobenzene | ND | 10 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 20 | ug/l | | | | | | | |
| Hexachlorocyclopentadiene | ND | 30 | ug/l | | | | | | | |
| Hexachloroethane | ND | 10 | ug/l | | | | | | | |
| Indeno(1,2,3-cd)pyrene | ND | 20 | ug/l | | | | | | | |
| Isophorone | ND | 10 | ug/l | | | | | | | |
| Naphthalene | ND | 10 | ug/l | | | | | | | |
| Nitrobenzene | ND | 10 | ug/l | | | | | | | |
| 2-Nitrophenol | ND | 10 | ug/l | | | | | | | |
| 4-Nitrophenol | ND | 10 | ug/l | | | | | | | |
| n-Nitrosodiphenylamine | ND | 30 | ug/l | | | | | | | |
| n-Nitroso-di-n-propylamine | ND | 10 | ug/l | | | | | | | |
| Pentachlorophenol | ND | 20 | ug/l | | | | | | | |
| Phenanthrene | ND | 10 | ug/l | | | | | | | |
| Phenol | ND | 10 | ug/l | | | | | | | |
| Pyrene | ND | 10 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 10 | ug/l | | | | | | | |
| 2,4,6-Trichlorophenol | ND | 10 | ug/l | | | | | | | |
| n-Nitrosodimethylamine | ND | 10 | ug/l | | | | | | | |
| *Surrogate: 2-Fluorophenol* | *91.3* | | *ug/l* | *100* | | *91.3* | *21-100* | | | |
| *Surrogate: Phenol-d6* | *97.0* | | *ug/l* | *100* | | *97.0* | *10-94* | | | *Z2* |
| *Surrogate: 2,4,6-Tribromophenol* | *90.4* | | *ug/l* | *100* | | *90.4* | *10-123* | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0032

Sampled: 07/05/00
Received: 07/05/00

METHOD BLANK/QC DATA

# ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1012 Extracted: 07/10/00** | | | | | | | | | | |
| **Blank Analyzed: 07/19/00 (P0G1012-BLK1)** | | | | | | | | | | |
| *Surrogate: Nitrobenzene-d5* | *50.8* | | *ug/l* | *50.0* | | *102* | *35-114* | | | |
| *Surrogate: 2-Fluorobiphenyl* | *38.7* | | *ug/l* | *50.0* | | *77.4* | *43-116* | | | |
| *Surrogate: Terphenyl-d14* | *45.3* | | *ug/l* | *50.0* | | *90.6* | *33-141* | | | |
| **LCS Analyzed: 07/19/00 (P0G1012-BS1)** | | | | | | | | | | |
| **Acenaphthene** | **41.0** | 10 | ug/l | 50.0 | | 82.0 | 47-145 | | | |
| **4-Chloro-3-methylphenol** | **49.2** | 10 | ug/l | 50.0 | | 98.4 | 22-147 | | | |
| **2-Chlorophenol** | **41.8** | 10 | ug/l | 50.0 | | 83.6 | 23-134 | | | |
| **1,4-Dichlorobenzene** | **32.0** | 10 | ug/l | 50.0 | | 64.0 | 20-124 | | | |
| **2,4-Dinitrotoluene** | **48.2** | 10 | ug/l | 50.0 | | 96.4 | 39-139 | | | |
| **4-Nitrophenol** | **51.5** | 10 | ug/l | 50.0 | | 103 | 0.01-132 | | | |
| **n-Nitroso-di-n-propylamine** | **44.4** | 10 | ug/l | 50.0 | | 88.8 | 0.01-230 | | | |
| **Pentachlorophenol** | **42.1** | 20 | ug/l | 50.0 | | 84.2 | 14-176 | | | |
| **Phenol** | **44.1** | 10 | ug/l | 50.0 | | 88.2 | 5-112 | | | |
| **Pyrene** | **45.4** | 10 | ug/l | 50.0 | | 90.8 | 52-115 | | | |
| **1,2,4-Trichlorobenzene** | **35.2** | 10 | ug/l | 50.0 | | 70.4 | 44-142 | | | |
| *Surrogate: 2-Fluorophenol* | *90.4* | | *ug/l* | *100* | | *90.4* | *21-100* | | | |
| *Surrogate: Phenol-d6* | *97.4* | | *ug/l* | *100* | | *97.4* | *10-94* | | | *Z2* |
| *Surrogate: 2,4,6-Tribromophenol* | *101* | | *ug/l* | *100* | | *101* | *10-123* | | | |
| *Surrogate: Nitrobenzene-d5* | *48.3* | | *ug/l* | *50.0* | | *96.6* | *35-114* | | | |
| *Surrogate: 2-Fluorobiphenyl* | *42.8* | | *ug/l* | *50.0* | | *85.6* | *43-116* | | | |
| *Surrogate: Terphenyl-d14* | *50.1* | | *ug/l* | *50.0* | | *100* | *33-141* | | | |
| **LCS Dup Analyzed: 07/19/00 (P0G1012-BSD1)** | | | | | | | | | | |
| **Acenaphthene** | **35.9** | 10 | ug/l | 50.0 | | 71.8 | 47-145 | 13.3 | 20 | |
| **4-Chloro-3-methylphenol** | **44.4** | 10 | ug/l | 50.0 | | 88.8 | 22-147 | 10.3 | 20 | |
| **2-Chlorophenol** | **37.9** | 10 | ug/l | 50.0 | | 75.8 | 23-134 | 9.79 | 20 | |
| **1,4-Dichlorobenzene** | **30.8** | 10 | ug/l | 50.0 | | 61.6 | 20-124 | 3.82 | 20 | |
| **2,4-Dinitrotoluene** | **45.1** | 10 | ug/l | 50.0 | | 90.2 | 39-139 | 6.65 | 20 | |
| **4-Nitrophenol** | **51.8** | 10 | ug/l | 50.0 | | 104 | 0.01-132 | 0.581 | 20 | |
| **n-Nitroso-di-n-propylamine** | **38.8** | 10 | ug/l | 50.0 | | 77.6 | 0.01-230 | 13.5 | 20 | |

Julie M. Slocum
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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0032

Sampled: 07/05/00
Received: 07/05/00

METHOD BLANK/QC DATA

# ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1012 Extracted: 07/10/00** | | | | | | | | | | |
| **LCS Dup Analyzed: 07/19/00 (P0G1012-BSD1)** | | | | | | | | | | |
| **Pentachlorophenol** | **42.8** | 20 | ug/l | 50.0 | | 85.6 | 14-176 | 1.65 | 20 | |
| **Phenol** | **39.3** | 10 | ug/l | 50.0 | | 78.6 | 5-112 | 11.5 | 20 | |
| **Pyrene** | **40.8** | 10 | ug/l | 50.0 | | 81.6 | 52-115 | 10.7 | 20 | |
| **1,2,4-Trichlorobenzene** | **33.3** | 10 | ug/l | 50.0 | | 66.6 | 44-142 | 5.55 | 20 | |
| *Surrogate: 2-Fluorophenol* | *81.2* | | *ug/l* | *100* | | *81.2* | *21-100* | | | |
| *Surrogate: Phenol-d6* | *84.9* | | *ug/l* | *100* | | *84.9* | *10-94* | | | |
| *Surrogate: 2,4,6-Tribromophenol* | *96.7* | | *ug/l* | *100* | | *96.7* | *10-123* | | | |
| *Surrogate: Nitrobenzene-d5* | *44.1* | | *ug/l* | *50.0* | | *88.2* | *35-114* | | | |
| *Surrogate: 2-Fluorobiphenyl* | *37.6* | | *ug/l* | *50.0* | | *75.2* | *43-116* | | | |
| *Surrogate: Terphenyl-d14* | *39.2* | | *ug/l* | *50.0* | | *78.4* | *33-141* | | | |
| **Matrix Spike Analyzed: 07/19/00 (P0G1012-MS1)** | | | | | **Source: PJG0032-01** | | | | | |
| **Acenaphthene** | **35.5** | 10 | ug/l | 50.0 | ND | 71.0 | 47-145 | | | |
| **4-Chloro-3-methylphenol** | **43.2** | 10 | ug/l | 50.0 | ND | 86.4 | 22-147 | | | |
| **2-Chlorophenol** | **39.7** | 10 | ug/l | 50.0 | ND | 79.4 | 23-134 | | | |
| **1,4-Dichlorobenzene** | **32.0** | 10 | ug/l | 50.0 | ND | 64.0 | 20-124 | | | |
| **2,4-Dinitrotoluene** | **45.8** | 10 | ug/l | 50.0 | ND | 91.6 | 39-139 | | | |
| **4-Nitrophenol** | **52.1** | 10 | ug/l | 50.0 | ND | 104 | 0.01-132 | | | |
| **n-Nitroso-di-n-propylamine** | **39.5** | 10 | ug/l | 50.0 | ND | 79.0 | 0.01-230 | | | |
| **Pentachlorophenol** | **42.0** | 20 | ug/l | 50.0 | ND | 84.0 | 14-176 | | | |
| **Phenol** | **40.8** | 10 | ug/l | 50.0 | ND | 81.6 | 5-112 | | | |
| **Pyrene** | **40.9** | 10 | ug/l | 50.0 | ND | 81.8 | 52-115 | | | |
| **1,2,4-Trichlorobenzene** | **34.0** | 10 | ug/l | 50.0 | ND | 68.0 | 44-142 | | | |
| *Surrogate: 2-Fluorophenol* | *85.3* | | *ug/l* | *100* | | *85.3* | *21-100* | | | |
| *Surrogate: Phenol-d6* | *89.1* | | *ug/l* | *100* | | *89.1* | *10-94* | | | |
| *Surrogate: 2,4,6-Tribromophenol* | *95.2* | | *ug/l* | *100* | | *95.2* | *10-123* | | | |
| *Surrogate: Nitrobenzene-d5* | *44.6* | | *ug/l* | *50.0* | | *89.2* | *35-114* | | | |
| *Surrogate: 2-Fluorobiphenyl* | *39.2* | | *ug/l* | *50.0* | | *78.4* | *43-116* | | | |
| *Surrogate: Terphenyl-d14* | *44.6* | | *ug/l* | *50.0* | | *89.2* | *33-141* | | | |

Julie M. Slocum
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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2

Report Number: PJG0032

Sampled: 07/05/00
Received: 07/05/00

METHOD BLANK/QC DATA

# ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1012 Extracted: 07/10/00** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 07/20/00 (P0G1012-MSD1)** | | | | | **Source: PJG0032-01** | | | | | |
| **Acenaphthene** | **40.4** | 10 | ug/l | 50.0 | ND | 80.8 | 47-145 | 12.9 | 20 | |
| **4-Chloro-3-methylphenol** | **47.6** | 10 | ug/l | 50.0 | ND | 95.2 | 22-147 | 9.69 | 20 | |
| **2-Chlorophenol** | **40.0** | 10 | ug/l | 50.0 | ND | 80.0 | 23-134 | 0.753 | 20 | |
| **1,4-Dichlorobenzene** | **31.7** | 10 | ug/l | 50.0 | ND | 63.4 | 20-124 | 0.942 | 20 | |
| **2,4-Dinitrotoluene** | **47.2** | 10 | ug/l | 50.0 | ND | 94.4 | 39-139 | 3.01 | 20 | |
| **4-Nitrophenol** | **52.2** | 10 | ug/l | 50.0 | ND | 104 | 0.01-132 | 0.192 | 20 | |
| **n-Nitroso-di-n-propylamine** | **41.4** | 10 | ug/l | 50.0 | ND | 82.8 | 0.01-230 | 4.70 | 20 | |
| **Pentachlorophenol** | **44.0** | 20 | ug/l | 50.0 | ND | 88.0 | 14-176 | 4.65 | 20 | |
| **Phenol** | **42.1** | 10 | ug/l | 50.0 | ND | 84.2 | 5-112 | 3.14 | 20 | |
| **Pyrene** | **42.4** | 10 | ug/l | 50.0 | ND | 84.8 | 52-115 | 3.60 | 20 | |
| **1,2,4-Trichlorobenzene** | **35.2** | 10 | ug/l | 50.0 | ND | 70.4 | 44-142 | 3.47 | 20 | |
| *Surrogate: 2-Fluorophenol* | *85.2* | | *ug/l* | *100* | | *85.2* | *21-100* | | | |
| *Surrogate: Phenol-d6* | *94.2* | | *ug/l* | *100* | | *94.2* | *10-94* | | | *Z2* |
| *Surrogate: 2,4,6-Tribromophenol* | *102* | | *ug/l* | *100* | | *102* | *10-123* | | | |
| *Surrogate: Nitrobenzene-d5* | *46.8* | | *ug/l* | *50.0* | | *93.6* | *35-114* | | | |
| *Surrogate: 2-Fluorobiphenyl* | *43.5* | | *ug/l* | *50.0* | | *87.0* | *43-116* | | | |
| *Surrogate: Terphenyl-d14* | *43.6* | | *ug/l* | *50.0* | | *87.2* | *33-141* | | | |

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4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0032

Sampled: 07/05/00
Received: 07/05/00

METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1008 Extracted: 07/10/00** | | | | | | | | | | |
| **Blank Analyzed: 07/10/00 (P0G1008-BLK1)** | | | | | | | | | | |
| Aluminum | ND | 0.50 | mg/l | | | | | | | |
| Barium | ND | 0.010 | mg/l | | | | | | | |
| Calcium | ND | 2.0 | mg/l | | | | | | | |
| Cobalt | ND | 0.050 | mg/l | | | | | | | |
| Copper | ND | 0.020 | mg/l | | | | | | | |
| Iron | ND | 0.10 | mg/l | | | | | | | |
| Lead | ND | 0.050 | mg/l | | | | | | | |
| Magnesium | ND | 0.50 | mg/l | | | | | | | |
| Manganese | ND | 0.020 | mg/l | | | | | | | |
| Nickel | ND | 0.050 | mg/l | | | | | | | |
| Silver | ND | 0.0050 | mg/l | | | | | | | |
| Sodium | ND | 5.0 | mg/l | | | | | | | |
| Strontium | ND | 0.10 | mg/l | | | | | | | |
| Vanadium | ND | 0.050 | mg/l | | | | | | | |
| Zinc | ND | 0.050 | mg/l | | | | | | | |
| **LCS Analyzed: 07/10/00 (P0G1008-BS1)** | | | | | | | | | | |
| **Aluminum** | **1.09** | 0.50 | mg/l | 1.00 | | 109 | 85-115 | | | |
| **Barium** | **0.997** | 0.010 | mg/l | 1.00 | | 99.7 | 85-115 | | | |
| **Calcium** | **9.98** | 2.0 | mg/l | 10.0 | | 99.8 | 85-115 | | | |
| **Cobalt** | **0.951** | 0.050 | mg/l | 1.00 | | 95.1 | 85-115 | | | |
| **Copper** | **0.977** | 0.020 | mg/l | 1.00 | | 97.7 | 85-115 | | | |
| **Iron** | **10.3** | 0.10 | mg/l | 10.0 | | 103 | 85-115 | | | |
| **Lead** | **0.964** | 0.050 | mg/l | 1.00 | | 96.4 | 85-115 | | | |
| **Magnesium** | **9.68** | 0.50 | mg/l | 10.0 | | 96.8 | 85-115 | | | |
| **Manganese** | **0.994** | 0.020 | mg/l | 1.00 | | 99.4 | 85-115 | | | |
| **Nickel** | **0.983** | 0.050 | mg/l | 1.00 | | 98.3 | 85-115 | | | |
| **Silver** | **0.0485** | 0.0050 | mg/l | 0.0500 | | 97.0 | 85-115 | | | |
| **Sodium** | **50.7** | 5.0 | mg/l | 50.0 | | 101 | 85-115 | | | |
| Strontium | ND | 0.10 | mg/l | 0.100 | | 89.8 | 85-115 | | | |
| **Vanadium** | **1.01** | 0.050 | mg/l | 1.00 | | 101 | 85-115 | | | |

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Project Manager



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Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2

Report Number: PJG0032

Sampled: 07/05/00
Received: 07/05/00

METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1008 Extracted: 07/10/00** | | | | | | | | | | |
| **LCS Analyzed: 07/10/00 (P0G1008-BS1)** | | | | | | | | | | |
| **Zinc** | **1.01** | 0.050 | mg/l | 1.00 | | 101 | 85-115 | | | |
| **LCS Dup Analyzed: 07/10/00 (P0G1008-BSD1)** | | | | | | | | | | |
| **Aluminum** | **1.01** | 0.50 | mg/l | 1.00 | | 101 | 85-115 | 7.62 | 20 | |
| **Barium** | **0.964** | 0.010 | mg/l | 1.00 | | 96.4 | 85-115 | 3.37 | 20 | |
| **Calcium** | **9.75** | 2.0 | mg/l | 10.0 | | 97.5 | 85-115 | 2.33 | 20 | |
| **Cobalt** | **0.946** | 0.050 | mg/l | 1.00 | | 94.6 | 85-115 | 0.527 | 20 | |
| **Copper** | **0.937** | 0.020 | mg/l | 1.00 | | 93.7 | 85-115 | 4.18 | 20 | |
| **Iron** | **9.97** | 0.10 | mg/l | 10.0 | | 99.7 | 85-115 | 3.26 | 20 | |
| **Lead** | **0.957** | 0.050 | mg/l | 1.00 | | 95.7 | 85-115 | 0.729 | 20 | |
| **Magnesium** | **9.43** | 0.50 | mg/l | 10.0 | | 94.3 | 85-115 | 2.62 | 20 | |
| **Manganese** | **0.961** | 0.020 | mg/l | 1.00 | | 96.1 | 85-115 | 3.38 | 20 | |
| **Nickel** | **0.949** | 0.050 | mg/l | 1.00 | | 94.9 | 85-115 | 3.52 | 20 | |
| **Silver** | **0.0464** | 0.0050 | mg/l | 0.0500 | | 92.8 | 85-115 | 4.43 | 20 | |
| **Sodium** | **49.6** | 5.0 | mg/l | 50.0 | | 99.2 | 85-115 | 2.19 | 20 | |
| Strontium | ND | 0.10 | mg/l | 0.100 | | 89.2 | 85-115 | 0.670 | 20 | |
| **Vanadium** | **0.979** | 0.050 | mg/l | 1.00 | | 97.9 | 85-115 | 3.12 | 20 | |
| **Zinc** | **0.965** | 0.050 | mg/l | 1.00 | | 96.5 | 85-115 | 4.56 | 20 | |
| **Matrix Spike Analyzed: 07/10/00 (P0G1008-MS1)** | | | | | **Source: PJG0032-01** | | | | | |
| **Aluminum** | **1.55** | 0.50 | mg/l | 1.00 | ND | 143 | 70-130 | | | M |
| **Barium** | **1.05** | 0.010 | mg/l | 1.00 | 0.094 | 95.6 | 70-130 | | | |
| **Calcium** | **237** | 2.0 | mg/l | 10.0 | 230 | 70.0 | 70-130 | | | |
| **Cobalt** | **0.932** | 0.050 | mg/l | 1.00 | ND | 93.2 | 70-130 | | | |
| **Copper** | **0.971** | 0.020 | mg/l | 1.00 | ND | 95.9 | 70-130 | | | |
| **Iron** | **9.98** | 0.10 | mg/l | 10.0 | 0.14 | 98.4 | 70-130 | | | |
| **Lead** | **0.927** | 0.050 | mg/l | 1.00 | ND | 92.7 | 70-130 | | | |
| **Magnesium** | **88.6** | 0.50 | mg/l | 10.0 | 80 | 86.0 | 70-130 | | | |
| **Manganese** | **0.997** | 0.020 | mg/l | 1.00 | ND | 99.4 | 70-130 | | | |
| **Nickel** | **0.905** | 0.050 | mg/l | 1.00 | ND | 90.5 | 70-130 | | | |
| **Silver** | **0.0491** | 0.0050 | mg/l | 0.0500 | ND | 95.0 | 70-130 | | | |
| **Sodium** | **517** | 10 | mg/l | 50.0 | 470 | 94.0 | 85-115 | | | |
| **Strontium** | **2.23** | 1.0 | mg/l | 0.100 | 2.2 | 30.0 | 70-130 | | | M |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0032

Sampled: 07/05/00
Received: 07/05/00

METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1008 Extracted: 07/10/00** | | | | | | | | | | |
| **Matrix Spike Analyzed: 07/10/00 (P0G1008-MS1)** | | | | | **Source: PJG0032-01** | | | | | |
| **Vanadium** | **0.998** | 0.050 | mg/l | 1.00 | ND | 99.4 | 70-130 | | | |
| **Zinc** | **0.922** | 0.050 | mg/l | 1.00 | ND | 92.2 | 70-130 | | | |
| **Matrix Spike Dup Analyzed: 07/10/00 (P0G1008-MSD1)** | | | | | **Source: PJG0032-01** | | | | | |
| **Aluminum** | **1.32** | 0.50 | mg/l | 1.00 | ND | 120 | 70-130 | 16.0 | 20 | |
| **Barium** | **1.04** | 0.010 | mg/l | 1.00 | 0.094 | 94.6 | 70-130 | 0.957 | 20 | |
| **Calcium** | **240** | 2.0 | mg/l | 10.0 | 230 | 100 | 70-130 | 1.26 | 20 | |
| **Cobalt** | **0.924** | 0.050 | mg/l | 1.00 | ND | 92.4 | 70-130 | 0.862 | 20 | |
| **Copper** | **0.981** | 0.020 | mg/l | 1.00 | ND | 96.9 | 70-130 | 1.02 | 20 | |
| **Iron** | **10.3** | 0.10 | mg/l | 10.0 | 0.14 | 102 | 70-130 | 3.16 | 20 | |
| **Lead** | **0.920** | 0.050 | mg/l | 1.00 | ND | 92.0 | 70-130 | 0.758 | 20 | |
| **Magnesium** | **92.4** | 0.50 | mg/l | 10.0 | 80 | 124 | 70-130 | 4.20 | 20 | |
| **Manganese** | **0.996** | 0.020 | mg/l | 1.00 | ND | 99.3 | 70-130 | 0.100 | 20 | |
| **Nickel** | **0.897** | 0.050 | mg/l | 1.00 | ND | 89.7 | 70-130 | 0.888 | 20 | |
| **Silver** | **0.0490** | 0.0050 | mg/l | 0.0500 | ND | 94.8 | 70-130 | 0.204 | 20 | |
| **Sodium** | **528** | 10 | mg/l | 50.0 | 470 | 116 | 85-115 | 2.11 | 20 | M |
| **Strontium** | **2.33** | 1.0 | mg/l | 0.100 | 2.2 | 130 | 70-130 | 4.39 | 20 | |
| **Vanadium** | **1.03** | 0.050 | mg/l | 1.00 | ND | 103 | 70-130 | 3.16 | 20 | |
| **Zinc** | **0.915** | 0.050 | mg/l | 1.00 | ND | 91.5 | 70-130 | 0.762 | 20 | |
| **Batch: P0G1023 Extracted: 07/10/00** | | | | | | | | | | |
| **Blank Analyzed: 07/13/00 (P0G1023-BLK1)** | | | | | | | | | | |
| Antimony | ND | 0.0040 | mg/l | | | | | | | |
| Arsenic | ND | 0.0030 | mg/l | | | | | | | |
| Beryllium | ND | 0.00050 | mg/l | | | | | | | |
| Cadmium | ND | 0.00050 | mg/l | | | | | | | |
| Chromium | ND | 0.0040 | mg/l | | | | | | | |
| Selenium | ND | 0.0040 | mg/l | | | | | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2

Report Number: PJG0032

Sampled: 07/05/00
Received: 07/05/00

METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1023 Extracted: 07/10/00** | | | | | | | | | | |
| **LCS Analyzed: 07/13/00 (P0G1023-BS1)** | | | | | | | | | | |
| **Antimony** | **0.0368** | 0.0080 | mg/l | 0.0400 | | 92.0 | 85-115 | | | |
| **Arsenic** | **0.0386** | 0.0060 | mg/l | 0.0400 | | 96.5 | 85-115 | | | |
| **Beryllium** | **0.00228** | 0.0010 | mg/l | 0.00200 | | 114 | 85-115 | | | |
| **Cadmium** | **0.00216** | 0.0010 | mg/l | 0.00200 | | 108 | 85-115 | | | |
| **Chromium** | **0.0412** | 0.0080 | mg/l | 0.0400 | | 103 | 85-115 | | | |
| **Selenium** | **0.0392** | 0.0080 | mg/l | 0.0400 | | 98.0 | 85-115 | | | |
| **LCS Dup Analyzed: 07/13/00 (P0G1023-BSD1)** | | | | | | | | | | |
| **Antimony** | **0.0374** | 0.0080 | mg/l | 0.0400 | | 93.5 | 85-115 | 1.62 | 20 | |
| **Arsenic** | **0.0408** | 0.0060 | mg/l | 0.0400 | | 102 | 85-115 | 5.54 | 20 | |
| **Beryllium** | **0.00212** | 0.0010 | mg/l | 0.00200 | | 106 | 85-115 | 7.27 | 20 | |
| **Cadmium** | **0.00222** | 0.0010 | mg/l | 0.00200 | | 111 | 85-115 | 2.74 | 20 | |
| **Chromium** | **0.0412** | 0.0080 | mg/l | 0.0400 | | 103 | 85-115 | 0 | 20 | |
| **Selenium** | **0.0391** | 0.0080 | mg/l | 0.0400 | | 97.7 | 85-115 | 0.255 | 20 | |
| **Matrix Spike Analyzed: 07/13/00 (P0G1023-MS1)** | | | | | **Source: PJG0053-01** | | | | | |
| **Antimony** | **0.0416** | 0.0080 | mg/l | 0.0400 | ND | 104 | 70-130 | | | |
| **Arsenic** | **0.0432** | 0.0060 | mg/l | 0.0400 | ND | 95.5 | 70-130 | | | |
| **Beryllium** | **0.00336** | 0.0020 | mg/l | 0.00200 | ND | 154 | 70-130 | | | M |
| **Cadmium** | **0.00210** | 0.0010 | mg/l | 0.00200 | ND | 105 | 70-130 | | | |
| **Chromium** | **0.0954** | 0.040 | mg/l | 0.0400 | 0.067 | 71.0 | 70-130 | | | |
| **Selenium** | **0.0389** | 0.0080 | mg/l | 0.0400 | ND | 88.7 | 70-130 | | | |
| **Matrix Spike Dup Analyzed: 07/13/00 (P0G1023-MSD1)** | | | | | **Source: PJG0053-01** | | | | | |
| **Antimony** | **0.0441** | 0.0080 | mg/l | 0.0400 | ND | 110 | 70-130 | 5.83 | 20 | |
| **Arsenic** | **0.0473** | 0.0060 | mg/l | 0.0400 | ND | 106 | 70-130 | 9.06 | 20 | |
| **Beryllium** | **0.00358** | 0.0020 | mg/l | 0.00200 | ND | 165 | 70-130 | 6.34 | 20 | M |
| **Cadmium** | **0.00222** | 0.0010 | mg/l | 0.00200 | ND | 111 | 70-130 | 5.56 | 20 | |
| **Chromium** | **0.0903** | 0.040 | mg/l | 0.0400 | 0.067 | 58.3 | 70-130 | 5.49 | 20 | M |
| **Selenium** | **0.0392** | 0.0080 | mg/l | 0.0400 | ND | 89.5 | 70-130 | 0.768 | 20 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
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Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2

Report Number: PJG0032

Sampled: 07/05/00
Received: 07/05/00

METHOD BLANK/QC DATA

# DATA QUALIFIERS AND DEFINITIONS

| | |
|---|---|
| **C** | Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted. |
| **L** | Laboratory Control Sample recovery was above the method control limits. Analyte not detected, data not impacted. |
| **M** | The MS and/or MSD were outside of the acceptance limits due to sample matrix interference. See Blank Spike (LCS). |
| **R2** | The RPD exceeded the method control limit. See Corrective Action Report. |
| **S** | Analyzed by Method of Standard Addition. |
| **Z2** | Surrogate recovery was above the acceptance limits. Data not impacted. |
| **ND** | Analyte NOT DETECTED at or above the reporting limit |
| **NR** | Not reported. |
| **RPD** | Relative Percent Difference |

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| | | |
|---|---|---|
| Law Engineering<br>4634 S. 36th Place<br>Phoenix, AZ 85040<br>Attention: Jim Clarke | Client Project ID: 70211-0-0150-02-2.2<br>Report Number: PJG0406 | Sampled: 07/26/00<br>Received: 07/26/00<br>Issued: 08/21/00 |

# CASE NARRATIVE

| LABORATORY NUMBER | SAMPLE DESCRIPTION | SAMPLE MATRIX |
|---|---|---|
| PJG0406-01 | MW2D | Water |
| PJG0406-02 | Trip Blank | Water |

SAMPLE RECEIPT: Samples were received intact, on ice, and with chain of custody documentation.

HOLDING TIMES: Holding times were met.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria.

OBSERVATIONS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

**DEL MAR ANALYTICAL , PHOENIX (AZ0426)**

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2

Report Number: PJG0406

Sampled: 07/26/00
Received: 07/26/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0406-01 (MW2D - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P0G2823 | 20 | ND | 1 | 7/28/00 | 7/28/00 | |
| Benzene | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Bromobenzene | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Bromochloromethane | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Bromodichloromethane | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Bromoform | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Bromomethane | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| 2-Butanone (MEK) | EPA 8260B | P0G2823 | 10 | ND | 1 | 7/28/00 | 7/28/00 | |
| n-Butylbenzene | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| sec-Butylbenzene | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| tert-Butylbenzene | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Carbon Disulfide | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Carbon tetrachloride | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Chlorobenzene | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Chloroethane | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Chloroform | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Chloromethane | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| 2-Chlorotoluene | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| 4-Chlorotoluene | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Dibromochloromethane | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Dibromomethane | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| 1,2-Dichlorobenzene | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| 1,3-Dichlorobenzene | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| 1,4-Dichlorobenzene | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Dichlorodifluoromethane | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| 1,1-Dichloroethane | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| 1,2-Dichloroethane | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| 1,1-Dichloroethene | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| cis-1,2-Dichloroethene | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| trans-1,2-Dichloroethene | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| 1,2-Dichloropropane | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| 1,3-Dichloropropane | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| 2,2-Dichloropropane | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| 1,1-Dichloropropene | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| cis-1,3-Dichloropropene | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| trans-1,3-Dichloropropene | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Ethylbenzene | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Hexachlorobutadiene | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| 2-Hexanone | EPA 8260B | P0G2823 | 10 | ND | 1 | 7/28/00 | 7/28/00 | |
| Iodomethane | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Isopropylbenzene | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |

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Project Manager



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4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0406

Sampled: 07/26/00
Received: 07/26/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0406-01 (MW2D - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Methylene chloride | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| 4-Methyl-2-pentatnone (MIBK) | EPA 8260B | P0G2823 | 10 | ND | 1 | 7/28/00 | 7/28/00 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Naphthalene | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| n-Propylbenzene | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Styrene | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Tetrachloroethene | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Toluene | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| 1,1,1-Trichloroethane | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| 1,1,2-Trichloroethane | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Trichloroethene | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Trichlorofluoromethane | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| 1,2,3-Trichloropropane | EPA 8260B | P0G2823 | 10 | ND | 1 | 7/28/00 | 7/28/00 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Vinyl acetate | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Vinyl chloride | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Xylenes, Total | EPA 8260B | P0G2823 | 10 | ND | 1 | 7/28/00 | 7/28/00 | |
| *Surrogate: Dibromofluoromethane (70-160%)* | | | | *104 %* | | | | |
| *Surrogate: Toluene-d8 (75-140%)* | | | | *95.6 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (75-135%)* | | | | *96.0 %* | | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0406

Sampled: 07/26/00
Received: 07/26/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0406-02 (Trip Blank - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P0G2823 | 20 | ND | 1 | 7/28/00 | 7/28/00 | |
| Benzene | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Bromobenzene | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Bromochloromethane | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Bromodichloromethane | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Bromoform | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Bromomethane | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| 2-Butanone (MEK) | EPA 8260B | P0G2823 | 10 | ND | 1 | 7/28/00 | 7/28/00 | |
| n-Butylbenzene | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| sec-Butylbenzene | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| tert-Butylbenzene | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Carbon Disulfide | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Carbon tetrachloride | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Chlorobenzene | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Chloroethane | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Chloroform | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Chloromethane | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| 2-Chlorotoluene | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| 4-Chlorotoluene | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Dibromochloromethane | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Dibromomethane | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| 1,2-Dichlorobenzene | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| 1,3-Dichlorobenzene | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| 1,4-Dichlorobenzene | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Dichlorodifluoromethane | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| 1,1-Dichloroethane | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| 1,2-Dichloroethane | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| 1,1-Dichloroethene | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| cis-1,2-Dichloroethene | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| trans-1,2-Dichloroethene | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| 1,2-Dichloropropane | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| 1,3-Dichloropropane | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| 2,2-Dichloropropane | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| 1,1-Dichloropropene | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| cis-1,3-Dichloropropene | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| trans-1,3-Dichloropropene | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Ethylbenzene | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Hexachlorobutadiene | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| 2-Hexanone | EPA 8260B | P0G2823 | 10 | ND | 1 | 7/28/00 | 7/28/00 | |
| Iodomethane | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Isopropylbenzene | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2

Report Number: PJG0406

Sampled: 07/26/00
Received: 07/26/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0406-02 (Trip Blank - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Methylene chloride | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| 4-Methyl-2-pentatnone (MIBK) | EPA 8260B | P0G2823 | 10 | ND | 1 | 7/28/00 | 7/28/00 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Naphthalene | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| n-Propylbenzene | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Styrene | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Tetrachloroethene | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Toluene | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| 1,1,1-Trichloroethane | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| 1,1,2-Trichloroethane | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Trichloroethene | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Trichlorofluoromethane | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| 1,2,3-Trichloropropane | EPA 8260B | P0G2823 | 10 | ND | 1 | 7/28/00 | 7/28/00 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P0G2823 | 2.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Vinyl acetate | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Vinyl chloride | EPA 8260B | P0G2823 | 5.0 | ND | 1 | 7/28/00 | 7/28/00 | |
| Xylenes, Total | EPA 8260B | P0G2823 | 10 | ND | 1 | 7/28/00 | 7/28/00 | |
| *Surrogate: Dibromofluoromethane (70-160%)* | | | | *92.4 %* | | | | |
| *Surrogate: Toluene-d8 (75-140%)* | | | | *98.8 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (75-135%)* | | | | *93.6 %* | | | | |

**DEL MAR ANALYTICAL, PHOENIX (AZ0426)**

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0406

Sampled: 07/26/00
Received: 07/26/00

## ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0406-01 (MW2D - Water)** | | | | | | | | |
| Acenaphthene | EPA 625 | P0G3120 | 10 | ND | 1 | 7/31/00 | 9/7/00 | |
| Acenaphthylene | EPA 625 | P0G3120 | 10 | ND | 1 | 7/31/00 | 9/7/00 | |
| Anthracene | EPA 625 | P0G3120 | 10 | ND | 1 | 7/31/00 | 9/7/00 | |
| Benzidine | EPA 625 | P0G3120 | 100 | ND | 1 | 7/31/00 | 9/7/00 | C2 |
| Benz(a)anthracene | EPA 625 | P0G3120 | 10 | ND | 1 | 7/31/00 | 9/7/00 | |
| Benzo(b,k)fluoranthene | EPA 625 | P0G3120 | 10 | ND | 1 | 7/31/00 | 9/7/00 | |
| Benzo(g,h,i)perylene | EPA 625 | P0G3120 | 20 | ND | 1 | 7/31/00 | 9/7/00 | |
| Benzo(a)pyrene | EPA 625 | P0G3120 | 20 | ND | 1 | 7/31/00 | 9/7/00 | |
| Bis(2-chloroethoxy)methane | EPA 625 | P0G3120 | 10 | ND | 1 | 7/31/00 | 9/7/00 | |
| Bis(2-chloroethyl)ether | EPA 625 | P0G3120 | 10 | ND | 1 | 7/31/00 | 9/7/00 | |
| Bis(2-chloroisopropyl)ether | EPA 625 | P0G3120 | 10 | ND | 1 | 7/31/00 | 9/7/00 | |
| **Bis(2-ethylhexyl)phthalate** | EPA 625 | P0G3120 | 20 | **38** | 1 | 7/31/00 | 9/7/00 | |
| 4-Bromophenyl phenyl ether | EPA 625 | P0G3120 | 20 | ND | 1 | 7/31/00 | 9/7/00 | |
| Butyl benzyl phthalate | EPA 625 | P0G3120 | 10 | ND | 1 | 7/31/00 | 9/7/00 | |
| 2-Chloronaphthalene | EPA 625 | P0G3120 | 10 | ND | 1 | 7/31/00 | 9/7/00 | |
| 4-Chloro-3-methylphenol | EPA 625 | P0G3120 | 10 | ND | 1 | 7/31/00 | 9/7/00 | |
| 2-Chlorophenol | EPA 625 | P0G3120 | 10 | ND | 1 | 7/31/00 | 9/7/00 | |
| 4-Chlorophenyl phenyl ether | EPA 625 | P0G3120 | 10 | ND | 1 | 7/31/00 | 9/7/00 | |
| Chrysene | EPA 625 | P0G3120 | 10 | ND | 1 | 7/31/00 | 9/7/00 | |
| Dibenz(a,h)anthracene | EPA 625 | P0G3120 | 20 | ND | 1 | 7/31/00 | 9/7/00 | |
| Di-n-butyl phthalate | EPA 625 | P0G3120 | 10 | ND | 1 | 7/31/00 | 9/7/00 | |
| 1,3-Dichlorobenzene | EPA 625 | P0G3120 | 10 | ND | 1 | 7/31/00 | 9/7/00 | |
| 1,4-Dichlorobenzene | EPA 625 | P0G3120 | 10 | ND | 1 | 7/31/00 | 9/7/00 | |
| 1,2-Dichlorobenzene | EPA 625 | P0G3120 | 10 | ND | 1 | 7/31/00 | 9/7/00 | |
| 3,3-Dichlorobenzidine | EPA 625 | P0G3120 | 20 | ND | 1 | 7/31/00 | 9/7/00 | |
| 2,4-Dichlorophenol | EPA 625 | P0G3120 | 10 | ND | 1 | 7/31/00 | 9/7/00 | |
| Diethyl phthalate | EPA 625 | P0G3120 | 10 | ND | 1 | 7/31/00 | 9/7/00 | |
| 2,4-Dimethylphenol | EPA 625 | P0G3120 | 10 | ND | 1 | 7/31/00 | 9/7/00 | |
| Dimethyl phthalate | EPA 625 | P0G3120 | 10 | ND | 1 | 7/31/00 | 9/7/00 | |
| 4,6-Dinitro-2-methylphenol | EPA 625 | P0G3120 | 10 | ND | 1 | 7/31/00 | 9/7/00 | |
| 2,4-Dinitrophenol | EPA 625 | P0G3120 | 30 | ND | 1 | 7/31/00 | 9/7/00 | |
| 2,4-Dinitrotoluene | EPA 625 | P0G3120 | 10 | ND | 1 | 7/31/00 | 9/7/00 | |
| 2,6-Dinitrotoluene | EPA 625 | P0G3120 | 10 | ND | 1 | 7/31/00 | 9/7/00 | |
| Di-n-octyl phthalate | EPA 625 | P0G3120 | 10 | ND | 1 | 7/31/00 | 9/7/00 | |
| 1,2-Diphenylhydrazine | EPA 625 | P0G3120 | 10 | ND | 1 | 7/31/00 | 9/7/00 | |
| Fluoranthene | EPA 625 | P0G3120 | 10 | ND | 1 | 7/31/00 | 9/7/00 | |
| Fluorene | EPA 625 | P0G3120 | 10 | ND | 1 | 7/31/00 | 9/7/00 | |
| Hexachlorobenzene | EPA 625 | P0G3120 | 10 | ND | 1 | 7/31/00 | 9/7/00 | |
| Hexachlorobutadiene | EPA 625 | P0G3120 | 20 | ND | 1 | 7/31/00 | 9/7/00 | |
| Hexachlorocyclopentadiene | EPA 625 | P0G3120 | 30 | ND | 1 | 7/31/00 | 9/7/00 | |
| Hexachloroethane | EPA 625 | P0G3120 | 10 | ND | 1 | 7/31/00 | 9/7/00 | |
| Indeno(1,2,3-cd)pyrene | EPA 625 | P0G3120 | 20 | ND | 1 | 7/31/00 | 9/7/00 | |
| Isophorone | EPA 625 | P0G3120 | 10 | ND | 1 | 7/31/00 | 9/7/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0406

Sampled: 07/26/00
Received: 07/26/00

## ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0406-01 (MW2D - Water)** | | | | | | | | |
| Naphthalene | EPA 625 | P0G3120 | 10 | ND | 1 | 7/31/00 | 9/7/00 | |
| Nitrobenzene | EPA 625 | P0G3120 | 10 | ND | 1 | 7/31/00 | 9/7/00 | |
| 2-Nitrophenol | EPA 625 | P0G3120 | 10 | ND | 1 | 7/31/00 | 9/7/00 | |
| 4-Nitrophenol | EPA 625 | P0G3120 | 10 | ND | 1 | 7/31/00 | 9/7/00 | |
| n-Nitrosodiphenylamine | EPA 625 | P0G3120 | 30 | ND | 1 | 7/31/00 | 9/7/00 | |
| n-Nitroso-di-n-propylamine | EPA 625 | P0G3120 | 10 | ND | 1 | 7/31/00 | 9/7/00 | |
| Pentachlorophenol | EPA 625 | P0G3120 | 20 | ND | 1 | 7/31/00 | 9/7/00 | |
| Phenanthrene | EPA 625 | P0G3120 | 10 | ND | 1 | 7/31/00 | 9/7/00 | |
| Phenol | EPA 625 | P0G3120 | 10 | ND | 1 | 7/31/00 | 9/7/00 | |
| Pyrene | EPA 625 | P0G3120 | 10 | ND | 1 | 7/31/00 | 9/7/00 | |
| 1,2,4-Trichlorobenzene | EPA 625 | P0G3120 | 10 | ND | 1 | 7/31/00 | 9/7/00 | |
| 2,4,6-Trichlorophenol | EPA 625 | P0G3120 | 10 | ND | 1 | 7/31/00 | 9/7/00 | |
| n-Nitrosodimethylamine | EPA 625 | P0G3120 | 10 | ND | 1 | 7/31/00 | 9/7/00 | |
| *Surrogate: 2-Fluorophenol (21-100%)* | | | | *57.8 %* | | | | |
| *Surrogate: Phenol-d6 (10-94%)* | | | | *67.7 %* | | | | |
| *Surrogate: 2,4,6-Tribromophenol (10-123%)* | | | | *81.9 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (35-114%)* | | | | *80.4 %* | | | | |
| *Surrogate: 2-Fluorobiphenyl (43-116%)* | | | | *86.8 %* | | | | |
| *Surrogate: Terphenyl-d14 (33-141%)* | | | | *93.4 %* | | | | |

**DEL MAR ANALYTICAL, PHOENIX (AZ0426)**

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0406

Sampled: 07/26/00
Received: 07/26/00

## TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | mg/l | mg/l | | | | |
| **Sample ID: PJG0406-01 (MW2D - Water)** | | | | | | | | |
| Aluminum | EPA 200.7 | P0G2722 | 0.50 | ND | 1 | 7/27/00 | 7/27/00 | L |
| Antimony | EPA 200.9 | P0G2703 | 0.0040 | ND | 1 | 7/27/00 | 7/31/00 | |
| **Barium** | EPA 200.7 | P0G2722 | 0.010 | **0.12** | 1 | 7/27/00 | 7/27/00 | |
| **Calcium** | EPA 200.7 | P0G2722 | 2.0 | **130** | 1 | 7/27/00 | 7/27/00 | |
| **Chromium** | EPA 200.9 | P0G2703 | 0.0040 | **0.0081** | 1 | 7/27/00 | 7/28/00 | |
| Cobalt | EPA 200.7 | P0G2722 | 0.050 | ND | 1 | 7/27/00 | 7/27/00 | |
| Copper | EPA 200.7 | P0G2722 | 0.020 | ND | 1 | 7/27/00 | 7/27/00 | |
| **Iron** | EPA 200.7 | P0G2722 | 0.10 | **0.18** | 1 | 7/27/00 | 7/27/00 | |
| Lead | EPA 200.7 | P0G2722 | 0.050 | ND | 1 | 7/27/00 | 7/27/00 | |
| **Magnesium** | EPA 200.7 | P0G2722 | 0.50 | **44** | 1 | 7/27/00 | 7/27/00 | |
| Manganese | EPA 200.7 | P0G2722 | 0.020 | ND | 1 | 7/27/00 | 7/27/00 | |
| Nickel | EPA 200.7 | P0G2722 | 0.050 | ND | 1 | 7/27/00 | 7/27/00 | |
| Selenium | EPA 200.9 | P0G2703 | 0.0040 | ND | 1 | 7/27/00 | 7/28/00 | |
| Silver | EPA 200.7 | P0G2722 | 0.0050 | ND | 1 | 7/27/00 | 7/27/00 | |
| **Sodium** | EPA 273.1 | P0G2722 | 5.0 | **320** | 1 | 7/27/00 | 8/1/00 | |
| **Strontium** | EPA 200.7 | P0G2722 | 0.50 | **1.3** | 5 | 7/27/00 | 7/29/00 | |
| Vanadium | EPA 200.7 | P0G2722 | 0.050 | ND | 1 | 7/27/00 | 7/27/00 | |
| Zinc | EPA 200.7 | P0G2722 | 0.050 | ND | 1 | 7/27/00 | 7/27/00 | |
| **Sample ID: PJG0406-01RE1 (MW2D - Water)** | | | | | | | | |
| **Arsenic** | EPA 200.9 | P0H0106 | 0.0030 | **0.0033** | 1 | 7/27/00 | 8/2/00 | |
| Beryllium | EPA 200.9 | P0H0106 | 0.00050 | ND | 1 | 7/27/00 | 8/2/00 | |
| Cadmium | EPA 200.9 | P0H0106 | 0.00050 | ND | 1 | 7/27/00 | 8/2/00 | L |

**DEL MAR ANALYTICAL, PHOENIX (AZ0426)**

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0406

Sampled: 07/26/00
Received: 07/26/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G2823 Extracted: 07/28/00** | | | | | | | | | | |
| **Blank Analyzed: 07/28/00 (P0G2823-BLK1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | |
| Benzene | ND | 2.0 | ug/l | | | | | | | |
| Bromobenzene | ND | 5.0 | ug/l | | | | | | | |
| Bromochloromethane | ND | 5.0 | ug/l | | | | | | | |
| Bromodichloromethane | ND | 2.0 | ug/l | | | | | | | |
| Bromoform | ND | 5.0 | ug/l | | | | | | | |
| Bromomethane | ND | 5.0 | ug/l | | | | | | | |
| 2-Butanone (MEK) | ND | 10 | ug/l | | | | | | | |
| n-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| sec-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| tert-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| Carbon Disulfide | ND | 5.0 | ug/l | | | | | | | |
| Carbon tetrachloride | ND | 5.0 | ug/l | | | | | | | |
| Chlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| Chloroethane | ND | 5.0 | ug/l | | | | | | | |
| Chloroform | ND | 2.0 | ug/l | | | | | | | |
| Chloromethane | ND | 5.0 | ug/l | | | | | | | |
| 2-Chlorotoluene | ND | 5.0 | ug/l | | | | | | | |
| 4-Chlorotoluene | ND | 5.0 | ug/l | | | | | | | |
| Dibromochloromethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/l | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 2.0 | ug/l | | | | | | | |
| Dibromomethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| Dichlorodifluoromethane | ND | 5.0 | ug/l | | | | | | | |
| 1,1-Dichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,1-Dichloroethene | ND | 5.0 | ug/l | | | | | | | |

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Law Engineering
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Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0406

Sampled: 07/26/00
Received: 07/26/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G2823 Extracted: 07/28/00** | | | | | | | | | | |
| **Blank Analyzed: 07/28/00 (P0G2823-BLK1)** | | | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 2.0 | ug/l | | | | | | | |
| trans-1,2-Dichloroethene | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,3-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 2,2-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,1-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| cis-1,3-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| Ethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 5.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 10 | ug/l | | | | | | | |
| Iodomethane | ND | 2.0 | ug/l | | | | | | | |
| Isopropylbenzene | ND | 2.0 | ug/l | | | | | | | |
| p-Isopropyltoluene | ND | 2.0 | ug/l | | | | | | | |
| Methylene chloride | ND | 5.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentatnone (MIBK) | ND | 10 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 5.0 | ug/l | | | | | | | |
| Naphthalene | ND | 5.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Styrene | ND | 2.0 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/l | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 2.0 | ug/l | | | | | | | |
| Toluene | ND | 2.0 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 5.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,1,2-Trichloroethane | ND | 2.0 | ug/l | | | | | | | |
| Trichloroethene | ND | 2.0 | ug/l | | | | | | | |
| Trichlorofluoromethane | ND | 5.0 | ug/l | | | | | | | |

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Law Engineering
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Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0406

Sampled: 07/26/00
Received: 07/26/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G2823 Extracted: 07/28/00** | | | | | | | | | | |
| **Blank Analyzed: 07/28/00 (P0G2823-BLK1)** | | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 10 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Vinyl acetate | ND | 5.0 | ug/l | | | | | | | |
| Vinyl chloride | ND | 5.0 | ug/l | | | | | | | |
| Xylenes, Total | ND | 10 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *26.5* | | *ug/l* | *25.0* | | *106* | *70-160* | | | |
| *Surrogate: Toluene-d8* | *23.8* | | *ug/l* | *25.0* | | *95.2* | *75-140* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *23.4* | | *ug/l* | *25.0* | | *93.6* | *75-135* | | | |
| **LCS Analyzed: 07/28/00 (P0G2823-BS1)** | | | | | | | | | | |
| **Acetone** | **27.9** | 20 | ug/l | 25.0 | | 112 | 35-150 | | | |
| **Benzene** | **23.9** | 2.0 | ug/l | 25.0 | | 95.6 | 65-155 | | | |
| **Bromobenzene** | **23.9** | 5.0 | ug/l | 25.0 | | 95.6 | 65-150 | | | |
| **Bromochloromethane** | **24.9** | 5.0 | ug/l | 25.0 | | 99.6 | 60-155 | | | |
| **Bromodichloromethane** | **26.1** | 2.0 | ug/l | 25.0 | | 104 | 60-155 | | | |
| **Bromoform** | **25.8** | 5.0 | ug/l | 25.0 | | 103 | 25-160 | | | |
| **Bromomethane** | **25.8** | 5.0 | ug/l | 25.0 | | 103 | 55-170 | | | |
| **2-Butanone (MEK)** | **27.8** | 10 | ug/l | 25.0 | | 111 | 35-165 | | | |
| **n-Butylbenzene** | **22.7** | 5.0 | ug/l | 25.0 | | 90.8 | 65-140 | | | |
| **sec-Butylbenzene** | **23.1** | 5.0 | ug/l | 25.0 | | 92.4 | 60-145 | | | |
| **tert-Butylbenzene** | **23.3** | 5.0 | ug/l | 25.0 | | 93.2 | 65-145 | | | |
| **Carbon Disulfide** | **32.0** | 5.0 | ug/l | 25.0 | | 128 | 65-155 | | | |
| **Carbon tetrachloride** | **24.3** | 5.0 | ug/l | 25.0 | | 97.2 | 65-150 | | | |
| **Chlorobenzene** | **24.6** | 2.0 | ug/l | 25.0 | | 98.4 | 65-145 | | | |
| **Chloroethane** | **25.5** | 5.0 | ug/l | 25.0 | | 102 | 65-165 | | | |
| **Chloroform** | **21.7** | 2.0 | ug/l | 25.0 | | 86.8 | 70-130 | | | |
| **Chloromethane** | **22.5** | 5.0 | ug/l | 25.0 | | 90.0 | 60-165 | | | |
| **2-Chlorotoluene** | **23.9** | 5.0 | ug/l | 25.0 | | 95.6 | 65-145 | | | |
| **4-Chlorotoluene** | **24.8** | 5.0 | ug/l | 25.0 | | 99.2 | 70-145 | | | |
| **Dibromochloromethane** | **26.8** | 2.0 | ug/l | 25.0 | | 107 | 55-155 | | | |

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Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0406

Sampled: 07/26/00
Received: 07/26/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G2823 Extracted: 07/28/00** | | | | | | | | | | |
| **LCS Analyzed: 07/28/00 (P0G2823-BS1)** | | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | 25.7 | 5.0 | ug/l | 25.0 | | 103 | 40-150 | | | |
| 1,2-Dibromoethane (EDB) | 25.8 | 2.0 | ug/l | 25.0 | | 103 | 55-155 | | | |
| Dibromomethane | 25.6 | 2.0 | ug/l | 25.0 | | 102 | 60-155 | | | |
| 1,2-Dichlorobenzene | 23.2 | 2.0 | ug/l | 25.0 | | 92.8 | 65-140 | | | |
| 1,3-Dichlorobenzene | 23.7 | 2.0 | ug/l | 25.0 | | 94.8 | 65-145 | | | |
| 1,4-Dichlorobenzene | 24.5 | 2.0 | ug/l | 25.0 | | 98.0 | 65-140 | | | |
| Dichlorodifluoromethane | 20.6 | 5.0 | ug/l | 25.0 | | 82.4 | 30-190 | | | |
| 1,1-Dichloroethane | 27.1 | 2.0 | ug/l | 25.0 | | 108 | 70-130 | | | |
| 1,2-Dichloroethane | 24.3 | 2.0 | ug/l | 25.0 | | 97.2 | 70-130 | | | |
| 1,1-Dichloroethene | 23.3 | 5.0 | ug/l | 25.0 | | 93.2 | 70-130 | | | |
| cis-1,2-Dichloroethene | 24.6 | 2.0 | ug/l | 25.0 | | 98.4 | 70-130 | | | |
| trans-1,2-Dichloroethene | 23.8 | 2.0 | ug/l | 25.0 | | 95.2 | 55-175 | | | |
| 1,2-Dichloropropane | 26.9 | 2.0 | ug/l | 25.0 | | 108 | 70-130 | | | |
| 1,3-Dichloropropane | 25.0 | 2.0 | ug/l | 25.0 | | 100 | 60-150 | | | |
| 2,2-Dichloropropane | 25.5 | 2.0 | ug/l | 25.0 | | 102 | 15-200 | | | |
| 1,1-Dichloropropene | 24.1 | 2.0 | ug/l | 25.0 | | 96.4 | 65-150 | | | |
| cis-1,3-Dichloropropene | 24.0 | 2.0 | ug/l | 25.0 | | 96.0 | 65-150 | | | |
| trans-1,3-Dichloropropene | 23.7 | 2.0 | ug/l | 25.0 | | 94.8 | 60-150 | | | |
| Ethylbenzene | 23.1 | 2.0 | ug/l | 25.0 | | 92.4 | 60-150 | | | |
| Hexachlorobutadiene | 22.0 | 5.0 | ug/l | 25.0 | | 88.0 | 55-150 | | | |
| 2-Hexanone | 27.8 | 10 | ug/l | 25.0 | | 111 | 35-165 | | | |
| Iodomethane | 21.0 | 2.0 | ug/l | 25.0 | | 84.0 | 65-160 | | | |
| Isopropylbenzene | 24.4 | 2.0 | ug/l | 25.0 | | 97.6 | 65-145 | | | |
| p-Isopropyltoluene | 22.8 | 2.0 | ug/l | 25.0 | | 91.2 | 60-145 | | | |
| Methylene chloride | 25.9 | 5.0 | ug/l | 25.0 | | 104 | 65-160 | | | |
| 4-Methyl-2-pentatnone (MIBK) | 27.3 | 10 | ug/l | 25.0 | | 109 | 40-165 | | | |
| Methyl-tert-butyl Ether (MTBE) | 28.0 | 5.0 | ug/l | 25.0 | | 112 | 60-160 | | | |
| Naphthalene | 25.4 | 5.0 | ug/l | 25.0 | | 102 | 50-150 | | | |
| n-Propylbenzene | 24.0 | 2.0 | ug/l | 25.0 | | 96.0 | 70-145 | | | |
| Styrene | 25.2 | 2.0 | ug/l | 25.0 | | 101 | 65-150 | | | |

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Project Manager



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Attention: Jim Clarke

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Report Number: PJG0406

Sampled: 07/26/00
Received: 07/26/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G2823 Extracted: 07/28/00** | | | | | | | | | | |
| **LCS Analyzed: 07/28/00 (P0G2823-BS1)** | | | | | | | | | | |
| **1,1,1,2-Tetrachloroethane** | **25.3** | 5.0 | ug/l | 25.0 | | 101 | 60-155 | | | |
| **1,1,2,2-Tetrachloroethane** | **24.5** | 2.0 | ug/l | 25.0 | | 98.0 | 65-150 | | | |
| **Tetrachloroethene** | **23.6** | 2.0 | ug/l | 25.0 | | 94.4 | 70-130 | | | |
| **Toluene** | **23.8** | 2.0 | ug/l | 25.0 | | 95.2 | 75-120 | | | |
| **1,2,3-Trichlorobenzene** | **22.4** | 5.0 | ug/l | 25.0 | | 89.6 | 55-150 | | | |
| **1,2,4-Trichlorobenzene** | **22.7** | 5.0 | ug/l | 25.0 | | 90.8 | 60-145 | | | |
| **1,1,1-Trichloroethane** | **23.5** | 2.0 | ug/l | 25.0 | | 94.0 | 70-130 | | | |
| **1,1,2-Trichloroethane** | **25.3** | 2.0 | ug/l | 25.0 | | 101 | 70-130 | | | |
| **Trichloroethene** | **25.4** | 2.0 | ug/l | 25.0 | | 102 | 75-120 | | | |
| **Trichlorofluoromethane** | **21.1** | 5.0 | ug/l | 25.0 | | 84.4 | 10-200 | | | |
| **1,2,3-Trichloropropane** | **24.3** | 10 | ug/l | 25.0 | | 97.2 | 55-150 | | | |
| **1,2,4-Trimethylbenzene** | **24.0** | 2.0 | ug/l | 25.0 | | 96.0 | 65-150 | | | |
| **1,3,5-Trimethylbenzene** | **23.2** | 2.0 | ug/l | 25.0 | | 92.8 | 65-150 | | | |
| **Vinyl acetate** | **34.4** | 5.0 | ug/l | 25.0 | | 138 | 50-160 | | | |
| **Vinyl chloride** | **20.7** | 5.0 | ug/l | 25.0 | | 82.8 | 25-200 | | | |
| **Xylenes, Total** | **72.8** | 10 | ug/l | 75.0 | | 97.1 | 65-145 | | | |
| *Surrogate: Dibromofluoromethane* | *25.1* | | *ug/l* | *25.0* | | *100* | *70-160* | | | |
| *Surrogate: Toluene-d8* | *23.0* | | *ug/l* | *25.0* | | *92.0* | *75-140* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *24.0* | | *ug/l* | *25.0* | | *96.0* | *75-135* | | | |
| **LCS Dup Analyzed: 07/28/00 (P0G2823-BSD1)** | | | | | | | | | | |
| **Acetone** | **35.0** | 20 | ug/l | 25.0 | | 140 | 35-150 | 22.6 | 20 | R |
| **Benzene** | **24.8** | 2.0 | ug/l | 25.0 | | 99.2 | 65-155 | 3.70 | 20 | |
| **Bromobenzene** | **25.8** | 5.0 | ug/l | 25.0 | | 103 | 65-150 | 7.65 | 20 | |
| **Bromochloromethane** | **28.1** | 5.0 | ug/l | 25.0 | | 112 | 60-155 | 12.1 | 20 | |
| **Bromodichloromethane** | **25.9** | 2.0 | ug/l | 25.0 | | 104 | 60-155 | 0.769 | 20 | |
| **Bromoform** | **27.1** | 5.0 | ug/l | 25.0 | | 108 | 25-160 | 4.91 | 20 | |
| **Bromomethane** | **29.0** | 5.0 | ug/l | 25.0 | | 116 | 55-170 | 11.7 | 20 | |
| **2-Butanone (MEK)** | **30.8** | 10 | ug/l | 25.0 | | 123 | 35-165 | 10.2 | 20 | |
| **n-Butylbenzene** | **25.0** | 5.0 | ug/l | 25.0 | | 100 | 65-140 | 9.64 | 20 | |
| **sec-Butylbenzene** | **24.9** | 5.0 | ug/l | 25.0 | | 99.6 | 60-145 | 7.50 | 20 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0406

Sampled: 07/26/00
Received: 07/26/00

METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G2823 Extracted: 07/28/00** | | | | | | | | | | |
| **LCS Dup Analyzed: 07/28/00 (P0G2823-BSD1)** | | | | | | | | | | |
| tert-Butylbenzene | 25.4 | 5.0 | ug/l | 25.0 | | 102 | 65-145 | 8.62 | 20 | |
| Carbon Disulfide | 34.6 | 5.0 | ug/l | 25.0 | | 138 | 65-155 | 7.81 | 20 | |
| Carbon tetrachloride | 26.3 | 5.0 | ug/l | 25.0 | | 105 | 65-150 | 7.91 | 20 | |
| Chlorobenzene | 26.1 | 2.0 | ug/l | 25.0 | | 104 | 65-145 | 5.92 | 20 | |
| Chloroethane | 28.4 | 5.0 | ug/l | 25.0 | | 114 | 65-165 | 10.8 | 20 | |
| Chloroform | 22.9 | 2.0 | ug/l | 25.0 | | 91.6 | 70-130 | 5.38 | 20 | |
| Chloromethane | 24.1 | 5.0 | ug/l | 25.0 | | 96.4 | 60-165 | 6.87 | 20 | |
| 2-Chlorotoluene | 25.8 | 5.0 | ug/l | 25.0 | | 103 | 65-145 | 7.65 | 20 | |
| 4-Chlorotoluene | 25.6 | 5.0 | ug/l | 25.0 | | 102 | 70-145 | 3.17 | 20 | |
| Dibromochloromethane | 28.6 | 2.0 | ug/l | 25.0 | | 114 | 55-155 | 6.50 | 20 | |
| 1,2-Dibromo-3-chloropropane | 26.8 | 5.0 | ug/l | 25.0 | | 107 | 40-150 | 4.19 | 20 | |
| 1,2-Dibromoethane (EDB) | 27.4 | 2.0 | ug/l | 25.0 | | 110 | 55-155 | 6.02 | 20 | |
| Dibromomethane | 26.0 | 2.0 | ug/l | 25.0 | | 104 | 60-155 | 1.55 | 20 | |
| 1,2-Dichlorobenzene | 24.3 | 2.0 | ug/l | 25.0 | | 97.2 | 65-140 | 4.63 | 20 | |
| 1,3-Dichlorobenzene | 24.7 | 2.0 | ug/l | 25.0 | | 98.8 | 65-145 | 4.13 | 20 | |
| 1,4-Dichlorobenzene | 25.5 | 2.0 | ug/l | 25.0 | | 102 | 65-140 | 4.00 | 20 | |
| Dichlorodifluoromethane | 22.3 | 5.0 | ug/l | 25.0 | | 89.2 | 30-190 | 7.93 | 20 | |
| 1,1-Dichloroethane | 29.1 | 2.0 | ug/l | 25.0 | | 116 | 70-130 | 7.12 | 20 | |
| 1,2-Dichloroethane | 24.9 | 2.0 | ug/l | 25.0 | | 99.6 | 70-130 | 2.44 | 20 | |
| 1,1-Dichloroethene | 24.7 | 5.0 | ug/l | 25.0 | | 98.8 | 70-130 | 5.83 | 20 | |
| cis-1,2-Dichloroethene | 26.2 | 2.0 | ug/l | 25.0 | | 105 | 70-130 | 6.30 | 20 | |
| trans-1,2-Dichloroethene | 25.8 | 2.0 | ug/l | 25.0 | | 103 | 55-175 | 8.06 | 20 | |
| 1,2-Dichloropropane | 27.0 | 2.0 | ug/l | 25.0 | | 108 | 70-130 | 0.371 | 20 | |
| 1,3-Dichloropropane | 27.7 | 2.0 | ug/l | 25.0 | | 111 | 60-150 | 10.2 | 20 | |
| 2,2-Dichloropropane | 26.8 | 2.0 | ug/l | 25.0 | | 107 | 15-200 | 4.97 | 20 | |
| 1,1-Dichloropropene | 25.4 | 2.0 | ug/l | 25.0 | | 102 | 65-150 | 5.25 | 20 | |
| cis-1,3-Dichloropropene | 24.5 | 2.0 | ug/l | 25.0 | | 98.0 | 65-150 | 2.06 | 20 | |
| trans-1,3-Dichloropropene | 25.7 | 2.0 | ug/l | 25.0 | | 103 | 60-150 | 8.10 | 20 | |
| Ethylbenzene | 25.4 | 2.0 | ug/l | 25.0 | | 102 | 60-150 | 9.48 | 20 | |
| Hexachlorobutadiene | 22.4 | 5.0 | ug/l | 25.0 | | 89.6 | 55-150 | 1.80 | 20 | |

Julie M. Slocum
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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2

Report Number: PJG0406

Sampled: 07/26/00
Received: 07/26/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G2823 Extracted: 07/28/00** | | | | | | | | | | |
| **LCS Dup Analyzed: 07/28/00 (P0G2823-BSD1)** | | | | | | | | | | |
| **2-Hexanone** | **29.3** | 10 | ug/l | 25.0 | | 117 | 35-165 | 5.25 | 20 | |
| **Iodomethane** | **21.2** | 2.0 | ug/l | 25.0 | | 84.8 | 65-160 | 0.948 | 20 | |
| **Isopropylbenzene** | **25.9** | 2.0 | ug/l | 25.0 | | 104 | 65-145 | 5.96 | 20 | |
| **p-Isopropyltoluene** | **24.1** | 2.0 | ug/l | 25.0 | | 96.4 | 60-145 | 5.54 | 20 | |
| **Methylene chloride** | **27.4** | 5.0 | ug/l | 25.0 | | 110 | 65-160 | 5.63 | 20 | |
| **4-Methyl-2-pentatnone (MIBK)** | **27.0** | 10 | ug/l | 25.0 | | 108 | 40-165 | 1.10 | 20 | |
| **Methyl-tert-butyl Ether (MTBE)** | **29.6** | 5.0 | ug/l | 25.0 | | 118 | 60-160 | 5.56 | 20 | |
| **Naphthalene** | **26.1** | 5.0 | ug/l | 25.0 | | 104 | 50-150 | 2.72 | 20 | |
| **n-Propylbenzene** | **26.3** | 2.0 | ug/l | 25.0 | | 105 | 70-145 | 9.15 | 20 | |
| **Styrene** | **26.6** | 2.0 | ug/l | 25.0 | | 106 | 65-150 | 5.41 | 20 | |
| **1,1,1,2-Tetrachloroethane** | **27.5** | 5.0 | ug/l | 25.0 | | 110 | 60-155 | 8.33 | 20 | |
| **1,1,2,2-Tetrachloroethane** | **24.7** | 2.0 | ug/l | 25.0 | | 98.8 | 65-150 | 0.813 | 20 | |
| **Tetrachloroethene** | **26.5** | 2.0 | ug/l | 25.0 | | 106 | 70-130 | 11.6 | 20 | |
| **Toluene** | **26.3** | 2.0 | ug/l | 25.0 | | 105 | 75-120 | 9.98 | 20 | |
| **1,2,3-Trichlorobenzene** | **23.4** | 5.0 | ug/l | 25.0 | | 93.6 | 55-150 | 4.37 | 20 | |
| **1,2,4-Trichlorobenzene** | **23.6** | 5.0 | ug/l | 25.0 | | 94.4 | 60-145 | 3.89 | 20 | |
| **1,1,1-Trichloroethane** | **25.0** | 2.0 | ug/l | 25.0 | | 100 | 70-130 | 6.19 | 20 | |
| **1,1,2-Trichloroethane** | **26.8** | 2.0 | ug/l | 25.0 | | 107 | 70-130 | 5.76 | 20 | |
| **Trichloroethene** | **25.8** | 2.0 | ug/l | 25.0 | | 103 | 75-120 | 1.56 | 20 | |
| **Trichlorofluoromethane** | **22.5** | 5.0 | ug/l | 25.0 | | 90.0 | 10-200 | 6.42 | 20 | |
| **1,2,3-Trichloropropane** | **27.9** | 10 | ug/l | 25.0 | | 112 | 55-150 | 13.8 | 20 | |
| **1,2,4-Trimethylbenzene** | **24.8** | 2.0 | ug/l | 25.0 | | 99.2 | 65-150 | 3.28 | 20 | |
| **1,3,5-Trimethylbenzene** | **24.8** | 2.0 | ug/l | 25.0 | | 99.2 | 65-150 | 6.67 | 20 | |
| **Vinyl acetate** | **37.2** | 5.0 | ug/l | 25.0 | | 149 | 50-160 | 7.82 | 20 | |
| **Vinyl chloride** | **22.5** | 5.0 | ug/l | 25.0 | | 90.0 | 25-200 | 8.33 | 20 | |
| **Xylenes, Total** | **78.1** | 10 | ug/l | 75.0 | | 104 | 65-145 | 7.02 | 20 | |
| *Surrogate: Dibromofluoromethane* | *26.1* | | *ug/l* | *25.0* | | *104* | *70-160* | | | |
| *Surrogate: Toluene-d8* | *24.4* | | *ug/l* | *25.0* | | *97.6* | *75-140* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *24.1* | | *ug/l* | *25.0* | | *96.4* | *75-135* | | | |

Julie M. Slocum
Project Manager



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Law Engineering
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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0406

Sampled: 07/26/00
Received: 07/26/00

## METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G2823 Extracted: 07/28/00** | | | | | | | | | | |
| **Matrix Spike Analyzed: 07/28/00 (P0G2823-MS1)** | | | | | **Source: PJG0406-01** | | | | | |
| Acetone | 27.3 | 20 | ug/l | 25.0 | ND | 109 | 35-150 | | | |
| Benzene | 24.4 | 2.0 | ug/l | 25.0 | ND | 97.6 | 65-155 | | | |
| Bromobenzene | 24.0 | 5.0 | ug/l | 25.0 | ND | 96.0 | 65-150 | | | |
| Bromochloromethane | 26.3 | 5.0 | ug/l | 25.0 | ND | 105 | 60-155 | | | |
| Bromodichloromethane | 26.0 | 2.0 | ug/l | 25.0 | ND | 104 | 60-155 | | | |
| Bromoform | 25.8 | 5.0 | ug/l | 25.0 | ND | 103 | 25-160 | | | |
| Bromomethane | 27.1 | 5.0 | ug/l | 25.0 | ND | 108 | 55-170 | | | |
| 2-Butanone (MEK) | 27.0 | 10 | ug/l | 25.0 | ND | 108 | 35-165 | | | |
| n-Butylbenzene | 24.8 | 5.0 | ug/l | 25.0 | ND | 99.2 | 65-140 | | | |
| sec-Butylbenzene | 23.9 | 5.0 | ug/l | 25.0 | ND | 95.6 | 60-145 | | | |
| tert-Butylbenzene | 24.8 | 5.0 | ug/l | 25.0 | ND | 99.2 | 65-145 | | | |
| Carbon Disulfide | 33.7 | 5.0 | ug/l | 25.0 | ND | 135 | 65-155 | | | |
| Carbon tetrachloride | 25.2 | 5.0 | ug/l | 25.0 | ND | 101 | 65-150 | | | |
| Chlorobenzene | 25.6 | 2.0 | ug/l | 25.0 | ND | 102 | 65-145 | | | |
| Chloroethane | 26.6 | 5.0 | ug/l | 25.0 | ND | 106 | 65-165 | | | |
| Chloroform | 21.8 | 2.0 | ug/l | 25.0 | ND | 87.2 | 70-130 | | | |
| Chloromethane | 22.7 | 5.0 | ug/l | 25.0 | ND | 90.8 | 60-165 | | | |
| 2-Chlorotoluene | 24.3 | 5.0 | ug/l | 25.0 | ND | 97.2 | 65-145 | | | |
| 4-Chlorotoluene | 24.9 | 5.0 | ug/l | 25.0 | ND | 99.6 | 70-145 | | | |
| Dibromochloromethane | 27.9 | 2.0 | ug/l | 25.0 | ND | 112 | 55-155 | | | |
| 1,2-Dibromo-3-chloropropane | 24.8 | 5.0 | ug/l | 25.0 | ND | 99.2 | 40-150 | | | |
| 1,2-Dibromoethane (EDB) | 25.5 | 2.0 | ug/l | 25.0 | ND | 102 | 55-155 | | | |
| Dibromomethane | 25.2 | 2.0 | ug/l | 25.0 | ND | 101 | 60-155 | | | |
| 1,2-Dichlorobenzene | 24.4 | 2.0 | ug/l | 25.0 | ND | 97.6 | 65-140 | | | |
| 1,3-Dichlorobenzene | 24.6 | 2.0 | ug/l | 25.0 | ND | 98.4 | 65-145 | | | |
| 1,4-Dichlorobenzene | 24.8 | 2.0 | ug/l | 25.0 | ND | 99.2 | 65-140 | | | |
| Dichlorodifluoromethane | 21.4 | 5.0 | ug/l | 25.0 | ND | 85.6 | 30-190 | | | |
| 1,1-Dichloroethane | 28.7 | 2.0 | ug/l | 25.0 | ND | 115 | 70-130 | | | |
| 1,2-Dichloroethane | 24.5 | 2.0 | ug/l | 25.0 | ND | 98.0 | 70-130 | | | |
| 1,1-Dichloroethene | 24.5 | 5.0 | ug/l | 25.0 | ND | 98.0 | 55-125 | | | |

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Report Number: PJG0406

Sampled: 07/26/00
Received: 07/26/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G2823 Extracted: 07/28/00** | | | | | | | | | | |
| **Matrix Spike Analyzed: 07/28/00 (P0G2823-MS1)** | | | | | **Source: PJG0406-01** | | | | | |
| cis-1,2-Dichloroethene | 25.4 | 2.0 | ug/l | 25.0 | ND | 102 | 70-130 | | | |
| trans-1,2-Dichloroethene | 25.1 | 2.0 | ug/l | 25.0 | ND | 100 | 55-175 | | | |
| 1,2-Dichloropropane | 26.9 | 2.0 | ug/l | 25.0 | ND | 108 | 70-130 | | | |
| 1,3-Dichloropropane | 26.0 | 2.0 | ug/l | 25.0 | ND | 104 | 60-150 | | | |
| 2,2-Dichloropropane | 25.8 | 2.0 | ug/l | 25.0 | ND | 103 | 15-200 | | | |
| 1,1-Dichloropropene | 24.4 | 2.0 | ug/l | 25.0 | ND | 97.6 | 65-150 | | | |
| cis-1,3-Dichloropropene | 23.9 | 2.0 | ug/l | 25.0 | ND | 95.6 | 65-150 | | | |
| trans-1,3-Dichloropropene | 23.7 | 2.0 | ug/l | 25.0 | ND | 94.8 | 60-150 | | | |
| Ethylbenzene | 24.5 | 2.0 | ug/l | 25.0 | ND | 98.0 | 60-150 | | | |
| Hexachlorobutadiene | 22.9 | 5.0 | ug/l | 25.0 | ND | 91.6 | 55-150 | | | |
| 2-Hexanone | 26.6 | 10 | ug/l | 25.0 | ND | 106 | 35-165 | | | |
| Iodomethane | 21.1 | 2.0 | ug/l | 25.0 | ND | 84.4 | 65-160 | | | |
| Isopropylbenzene | 25.8 | 2.0 | ug/l | 25.0 | ND | 103 | 65-145 | | | |
| p-Isopropyltoluene | 24.2 | 2.0 | ug/l | 25.0 | ND | 96.8 | 60-145 | | | |
| Methylene chloride | 27.1 | 5.0 | ug/l | 25.0 | ND | 108 | 65-160 | | | |
| 4-Methyl-2-pentatnone (MIBK) | 24.3 | 10 | ug/l | 25.0 | ND | 97.2 | 40-165 | | | |
| Methyl-tert-butyl Ether (MTBE) | 28.5 | 5.0 | ug/l | 25.0 | ND | 114 | 60-160 | | | |
| Naphthalene | 24.1 | 5.0 | ug/l | 25.0 | ND | 96.4 | 50-150 | | | |
| n-Propylbenzene | 24.9 | 2.0 | ug/l | 25.0 | ND | 99.6 | 70-145 | | | |
| Styrene | 23.6 | 2.0 | ug/l | 25.0 | ND | 94.4 | 65-150 | | | |
| 1,1,1,2-Tetrachloroethane | 26.6 | 5.0 | ug/l | 25.0 | ND | 106 | 60-155 | | | |
| 1,1,2,2-Tetrachloroethane | 25.2 | 2.0 | ug/l | 25.0 | ND | 101 | 65-150 | | | |
| Tetrachloroethene | 26.8 | 2.0 | ug/l | 25.0 | ND | 107 | 70-130 | | | |
| Toluene | 25.2 | 2.0 | ug/l | 25.0 | ND | 101 | 75-120 | | | |
| 1,2,3-Trichlorobenzene | 22.7 | 5.0 | ug/l | 25.0 | ND | 90.8 | 55-150 | | | |
| 1,2,4-Trichlorobenzene | 22.1 | 5.0 | ug/l | 25.0 | ND | 88.4 | 60-145 | | | |
| 1,1,1-Trichloroethane | 24.6 | 2.0 | ug/l | 25.0 | ND | 98.4 | 70-130 | | | |
| 1,1,2-Trichloroethane | 26.1 | 2.0 | ug/l | 25.0 | ND | 104 | 70-130 | | | |
| Trichloroethene | 25.4 | 2.0 | ug/l | 25.0 | ND | 102 | 75-120 | | | |
| Trichlorofluoromethane | 21.9 | 5.0 | ug/l | 25.0 | ND | 87.6 | 10-200 | | | |

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Sampled: 07/26/00
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METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G2823 Extracted: 07/28/00** | | | | | | | | | | |
| **Matrix Spike Analyzed: 07/28/00 (P0G2823-MS1)** | | | | | **Source: PJG0406-01** | | | | | |
| **1,2,3-Trichloropropane** | **25.1** | 10 | ug/l | 25.0 | ND | 100 | 55-150 | | | |
| **1,2,4-Trimethylbenzene** | **24.8** | 2.0 | ug/l | 25.0 | ND | 99.2 | 65-150 | | | |
| **1,3,5-Trimethylbenzene** | **24.1** | 2.0 | ug/l | 25.0 | ND | 96.4 | 65-150 | | | |
| **Vinyl acetate** | **34.5** | 5.0 | ug/l | 25.0 | ND | 138 | 50-160 | | | |
| **Vinyl chloride** | **21.6** | 5.0 | ug/l | 25.0 | ND | 86.4 | 25-200 | | | |
| **Xylenes, Total** | **77.2** | 10 | ug/l | 75.0 | ND | 103 | 65-145 | | | |
| *Surrogate: Dibromofluoromethane* | *26.0* | | *ug/l* | *25.0* | | *104* | *70-160* | | | |
| *Surrogate: Toluene-d8* | *24.1* | | *ug/l* | *25.0* | | *96.4* | *75-140* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *23.5* | | *ug/l* | *25.0* | | *94.0* | *75-135* | | | |
| **Matrix Spike Dup Analyzed: 07/28/00 (P0G2823-MSD1)** | | | | | **Source: PJG0406-01** | | | | | |
| **Acetone** | **28.6** | 20 | ug/l | 25.0 | ND | 114 | 35-150 | 4.65 | 20 | |
| **Benzene** | **25.0** | 2.0 | ug/l | 25.0 | ND | 100 | 65-155 | 2.43 | 20 | |
| **Bromobenzene** | **23.9** | 5.0 | ug/l | 25.0 | ND | 95.6 | 65-150 | 0.418 | 20 | |
| **Bromochloromethane** | **27.0** | 5.0 | ug/l | 25.0 | ND | 108 | 60-155 | 2.63 | 20 | |
| **Bromodichloromethane** | **25.6** | 2.0 | ug/l | 25.0 | ND | 102 | 60-155 | 1.55 | 20 | |
| **Bromoform** | **25.7** | 5.0 | ug/l | 25.0 | ND | 103 | 25-160 | 0.388 | 20 | |
| **Bromomethane** | **28.4** | 5.0 | ug/l | 25.0 | ND | 114 | 55-170 | 4.68 | 20 | |
| **2-Butanone (MEK)** | **29.2** | 10 | ug/l | 25.0 | ND | 117 | 35-165 | 7.83 | 20 | |
| **n-Butylbenzene** | **24.6** | 5.0 | ug/l | 25.0 | ND | 98.4 | 65-140 | 0.810 | 20 | |
| **sec-Butylbenzene** | **24.3** | 5.0 | ug/l | 25.0 | ND | 97.2 | 60-145 | 1.66 | 20 | |
| **tert-Butylbenzene** | **24.4** | 5.0 | ug/l | 25.0 | ND | 97.6 | 65-145 | 1.63 | 20 | |
| **Carbon Disulfide** | **34.5** | 5.0 | ug/l | 25.0 | ND | 138 | 65-155 | 2.35 | 20 | |
| **Carbon tetrachloride** | **26.1** | 5.0 | ug/l | 25.0 | ND | 104 | 65-150 | 3.51 | 20 | |
| **Chlorobenzene** | **26.0** | 2.0 | ug/l | 25.0 | ND | 104 | 65-145 | 1.55 | 20 | |
| **Chloroethane** | **27.8** | 5.0 | ug/l | 25.0 | ND | 111 | 65-165 | 4.41 | 20 | |
| **Chloroform** | **22.5** | 2.0 | ug/l | 25.0 | ND | 90.0 | 70-130 | 3.16 | 20 | |
| **Chloromethane** | **23.9** | 5.0 | ug/l | 25.0 | ND | 95.6 | 60-165 | 5.15 | 20 | |
| **2-Chlorotoluene** | **24.7** | 5.0 | ug/l | 25.0 | ND | 98.8 | 65-145 | 1.63 | 20 | |
| **4-Chlorotoluene** | **24.9** | 5.0 | ug/l | 25.0 | ND | 99.6 | 70-145 | 0 | 20 | |
| **Dibromochloromethane** | **28.6** | 2.0 | ug/l | 25.0 | ND | 114 | 55-155 | 2.48 | 20 | |

Julie M. Slocum
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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0406

Sampled: 07/26/00
Received: 07/26/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G2823 Extracted: 07/28/00** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 07/28/00 (P0G2823-MSD1)** | | | | | **Source: PJG0406-01** | | | | | |
| 1,2-Dibromo-3-chloropropane | 25.0 | 5.0 | ug/l | 25.0 | ND | 100 | 40-150 | 0.803 | 20 | |
| 1,2-Dibromoethane (EDB) | 26.9 | 2.0 | ug/l | 25.0 | ND | 108 | 55-155 | 5.34 | 20 | |
| Dibromomethane | 25.3 | 2.0 | ug/l | 25.0 | ND | 101 | 60-155 | 0.396 | 20 | |
| 1,2-Dichlorobenzene | 24.2 | 2.0 | ug/l | 25.0 | ND | 96.8 | 65-140 | 0.823 | 20 | |
| 1,3-Dichlorobenzene | 24.2 | 2.0 | ug/l | 25.0 | ND | 96.8 | 65-145 | 1.64 | 20 | |
| 1,4-Dichlorobenzene | 24.8 | 2.0 | ug/l | 25.0 | ND | 99.2 | 65-140 | 0 | 20 | |
| Dichlorodifluoromethane | 22.6 | 5.0 | ug/l | 25.0 | ND | 90.4 | 30-190 | 5.45 | 20 | |
| 1,1-Dichloroethane | 29.6 | 2.0 | ug/l | 25.0 | ND | 118 | 70-130 | 3.09 | 20 | |
| 1,2-Dichloroethane | 24.2 | 2.0 | ug/l | 25.0 | ND | 96.8 | 70-130 | 1.23 | 20 | |
| 1,1-Dichloroethene | 25.1 | 5.0 | ug/l | 25.0 | ND | 100 | 55-125 | 2.42 | 20 | |
| cis-1,2-Dichloroethene | 26.3 | 2.0 | ug/l | 25.0 | ND | 105 | 70-130 | 3.48 | 20 | |
| trans-1,2-Dichloroethene | 25.5 | 2.0 | ug/l | 25.0 | ND | 102 | 55-175 | 1.58 | 20 | |
| 1,2-Dichloropropane | 26.8 | 2.0 | ug/l | 25.0 | ND | 107 | 70-130 | 0.372 | 20 | |
| 1,3-Dichloropropane | 27.2 | 2.0 | ug/l | 25.0 | ND | 109 | 60-150 | 4.51 | 20 | |
| 2,2-Dichloropropane | 26.3 | 2.0 | ug/l | 25.0 | ND | 105 | 15-200 | 1.92 | 20 | |
| 1,1-Dichloropropene | 25.9 | 2.0 | ug/l | 25.0 | ND | 104 | 65-150 | 5.96 | 20 | |
| cis-1,3-Dichloropropene | 24.4 | 2.0 | ug/l | 25.0 | ND | 97.6 | 65-150 | 2.07 | 20 | |
| trans-1,3-Dichloropropene | 24.9 | 2.0 | ug/l | 25.0 | ND | 99.6 | 60-150 | 4.94 | 20 | |
| Ethylbenzene | 24.8 | 2.0 | ug/l | 25.0 | ND | 99.2 | 60-150 | 1.22 | 20 | |
| Hexachlorobutadiene | 23.7 | 5.0 | ug/l | 25.0 | ND | 94.8 | 55-150 | 3.43 | 20 | |
| 2-Hexanone | 27.7 | 10 | ug/l | 25.0 | ND | 111 | 35-165 | 4.05 | 20 | |
| Iodomethane | 21.6 | 2.0 | ug/l | 25.0 | ND | 86.4 | 65-160 | 2.34 | 20 | |
| Isopropylbenzene | 25.6 | 2.0 | ug/l | 25.0 | ND | 102 | 65-145 | 0.778 | 20 | |
| p-Isopropyltoluene | 23.8 | 2.0 | ug/l | 25.0 | ND | 95.2 | 60-145 | 1.67 | 20 | |
| Methylene chloride | 28.5 | 5.0 | ug/l | 25.0 | ND | 114 | 65-160 | 5.04 | 20 | |
| 4-Methyl-2-pentatnone (MIBK) | 25.2 | 10 | ug/l | 25.0 | ND | 101 | 40-165 | 3.64 | 20 | |
| Methyl-tert-butyl Ether (MTBE) | 29.2 | 5.0 | ug/l | 25.0 | ND | 117 | 60-160 | 2.43 | 20 | |
| Naphthalene | 25.6 | 5.0 | ug/l | 25.0 | ND | 102 | 50-150 | 6.04 | 20 | |
| n-Propylbenzene | 25.0 | 2.0 | ug/l | 25.0 | ND | 100 | 70-145 | 0.401 | 20 | |
| Styrene | 21.9 | 2.0 | ug/l | 25.0 | ND | 87.6 | 65-150 | 7.47 | 20 | |

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0406

Sampled: 07/26/00
Received: 07/26/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G2823 Extracted: 07/28/00** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 07/28/00 (P0G2823-MSD1)** | | | | | **Source: PJG0406-01** | | | | | |
| **1,1,1,2-Tetrachloroethane** | **27.0** | 5.0 | ug/l | 25.0 | ND | 108 | 60-155 | 1.49 | 20 | |
| **1,1,2,2-Tetrachloroethane** | **23.8** | 2.0 | ug/l | 25.0 | ND | 95.2 | 65-150 | 5.71 | 20 | |
| **Tetrachloroethene** | **26.9** | 2.0 | ug/l | 25.0 | ND | 108 | 70-130 | 0.372 | 20 | |
| **Toluene** | **25.8** | 2.0 | ug/l | 25.0 | ND | 103 | 75-120 | 2.35 | 20 | |
| **1,2,3-Trichlorobenzene** | **23.4** | 5.0 | ug/l | 25.0 | ND | 93.6 | 55-150 | 3.04 | 20 | |
| **1,2,4-Trichlorobenzene** | **22.7** | 5.0 | ug/l | 25.0 | ND | 90.8 | 60-145 | 2.68 | 20 | |
| **1,1,1-Trichloroethane** | **25.2** | 2.0 | ug/l | 25.0 | ND | 101 | 70-130 | 2.41 | 20 | |
| **1,1,2-Trichloroethane** | **26.3** | 2.0 | ug/l | 25.0 | ND | 105 | 70-130 | 0.763 | 20 | |
| **Trichloroethene** | **25.1** | 2.0 | ug/l | 25.0 | ND | 100 | 75-120 | 1.19 | 20 | |
| **Trichlorofluoromethane** | **22.8** | 5.0 | ug/l | 25.0 | ND | 91.2 | 10-200 | 4.03 | 20 | |
| **1,2,3-Trichloropropane** | **24.8** | 10 | ug/l | 25.0 | ND | 99.2 | 55-150 | 1.20 | 20 | |
| **1,2,4-Trimethylbenzene** | **24.1** | 2.0 | ug/l | 25.0 | ND | 96.4 | 65-150 | 2.86 | 20 | |
| **1,3,5-Trimethylbenzene** | **24.2** | 2.0 | ug/l | 25.0 | ND | 96.8 | 65-150 | 0.414 | 20 | |
| **Vinyl acetate** | **31.6** | 5.0 | ug/l | 25.0 | ND | 126 | 50-160 | 8.77 | 20 | |
| **Vinyl chloride** | **22.3** | 5.0 | ug/l | 25.0 | ND | 89.2 | 25-200 | 3.19 | 20 | |
| **Xylenes, Total** | **77.6** | 10 | ug/l | 75.0 | ND | 103 | 65-145 | 0.517 | 20 | |
| *Surrogate: Dibromofluoromethane* | *25.8* | | *ug/l* | *25.0* | | *103* | *70-160* | | | |
| *Surrogate: Toluene-d8* | *23.8* | | *ug/l* | *25.0* | | *95.2* | *75-140* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *23.4* | | *ug/l* | *25.0* | | *93.6* | *75-135* | | | |

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0406

Sampled: 07/26/00
Received: 07/26/00

## METHOD BLANK/QC DATA

# ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G3120 Extracted: 07/31/00** | | | | | | | | | | |
| **Blank Analyzed: 08/15/00 (P0G3120-BLK1)** | | | | | | | | | | |
| Acenaphthene | ND | 10 | ug/l | | | | | | | |
| Acenaphthylene | ND | 10 | ug/l | | | | | | | |
| Anthracene | ND | 10 | ug/l | | | | | | | |
| Benzidine | ND | 100 | ug/l | | | | | | | |
| Benz(a)anthracene | ND | 10 | ug/l | | | | | | | |
| Benzo(b,k)fluoranthene | ND | 10 | ug/l | | | | | | | |
| Benzo(g,h,i)perylene | ND | 20 | ug/l | | | | | | | |
| Benzo(a)pyrene | ND | 20 | ug/l | | | | | | | |
| Bis(2-chloroethoxy)methane | ND | 10 | ug/l | | | | | | | |
| Bis(2-chloroethyl)ether | ND | 10 | ug/l | | | | | | | |
| Bis(2-chloroisopropyl)ether | ND | 10 | ug/l | | | | | | | |
| Bis(2-ethylhexyl)phthalate | ND | 20 | ug/l | | | | | | | |
| 4-Bromophenyl phenyl ether | ND | 20 | ug/l | | | | | | | |
| Butyl benzyl phthalate | ND | 10 | ug/l | | | | | | | |
| 2-Chloronaphthalene | ND | 10 | ug/l | | | | | | | |
| 4-Chloro-3-methylphenol | ND | 10 | ug/l | | | | | | | |
| 2-Chlorophenol | ND | 10 | ug/l | | | | | | | |
| 4-Chlorophenyl phenyl ether | ND | 10 | ug/l | | | | | | | |
| Chrysene | ND | 10 | ug/l | | | | | | | |
| Dibenz(a,h)anthracene | ND | 20 | ug/l | | | | | | | |
| Di-n-butyl phthalate | ND | 10 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 10 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 10 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 10 | ug/l | | | | | | | |
| 3,3-Dichlorobenzidine | ND | 20 | ug/l | | | | | | | |
| 2,4-Dichlorophenol | ND | 10 | ug/l | | | | | | | |
| Diethyl phthalate | ND | 10 | ug/l | | | | | | | |
| 2,4-Dimethylphenol | ND | 10 | ug/l | | | | | | | |
| Dimethyl phthalate | ND | 10 | ug/l | | | | | | | |
| 4,6-Dinitro-2-methylphenol | ND | 10 | ug/l | | | | | | | |

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Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0406

Sampled: 07/26/00
Received: 07/26/00

METHOD BLANK/QC DATA

# ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G3120 Extracted: 07/31/00** | | | | | | | | | | |
| **Blank Analyzed: 08/15/00 (P0G3120-BLK1)** | | | | | | | | | | |
| 2,4-Dinitrophenol | ND | 30 | ug/l | | | | | | | |
| 2,4-Dinitrotoluene | ND | 10 | ug/l | | | | | | | |
| 2,6-Dinitrotoluene | ND | 10 | ug/l | | | | | | | |
| Di-n-octyl phthalate | ND | 10 | ug/l | | | | | | | |
| 1,2-Diphenylhydrazine | ND | 10 | ug/l | | | | | | | |
| Fluoranthene | ND | 10 | ug/l | | | | | | | |
| Fluorene | ND | 10 | ug/l | | | | | | | |
| Hexachlorobenzene | ND | 10 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 20 | ug/l | | | | | | | |
| Hexachlorocyclopentadiene | ND | 30 | ug/l | | | | | | | |
| Hexachloroethane | ND | 10 | ug/l | | | | | | | |
| Indeno(1,2,3-cd)pyrene | ND | 20 | ug/l | | | | | | | |
| Isophorone | ND | 10 | ug/l | | | | | | | |
| Naphthalene | ND | 10 | ug/l | | | | | | | |
| Nitrobenzene | ND | 10 | ug/l | | | | | | | |
| 2-Nitrophenol | ND | 10 | ug/l | | | | | | | |
| 4-Nitrophenol | ND | 10 | ug/l | | | | | | | |
| n-Nitrosodiphenylamine | ND | 30 | ug/l | | | | | | | |
| n-Nitroso-di-n-propylamine | ND | 10 | ug/l | | | | | | | |
| Pentachlorophenol | ND | 20 | ug/l | | | | | | | |
| Phenanthrene | ND | 10 | ug/l | | | | | | | |
| Phenol | ND | 10 | ug/l | | | | | | | |
| Pyrene | ND | 10 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 10 | ug/l | | | | | | | |
| 2,4,6-Trichlorophenol | ND | 10 | ug/l | | | | | | | |
| n-Nitrosodimethylamine | ND | 10 | ug/l | | | | | | | |
| *Surrogate: 2-Fluorophenol* | *76.5* | | *ug/l* | *100* | | *76.5* | *21-100* | | | |
| *Surrogate: Phenol-d6* | *82.2* | | *ug/l* | *100* | | *82.2* | *10-94* | | | |
| *Surrogate: 2,4,6-Tribromophenol* | *88.4* | | *ug/l* | *100* | | *88.4* | *10-123* | | | |

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Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0406

Sampled: 07/26/00
Received: 07/26/00

METHOD BLANK/QC DATA

# ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G3120 Extracted: 07/31/00** | | | | | | | | | | |
| **Blank Analyzed: 08/15/00 (P0G3120-BLK1)** | | | | | | | | | | |
| *Surrogate: Nitrobenzene-d5* | *32.0* | | *ug/l* | *50.0* | | *64.0* | *35-114* | | | |
| *Surrogate: 2-Fluorobiphenyl* | *36.3* | | *ug/l* | *50.0* | | *72.6* | *43-116* | | | |
| *Surrogate: Terphenyl-d14* | *38.2* | | *ug/l* | *50.0* | | *76.4* | *33-141* | | | |
| **LCS Analyzed: 08/15/00 (P0G3120-BS1)** | | | | | | | | | | |
| **Acenaphthene** | **41.8** | 10 | ug/l | 50.0 | | 83.6 | 47-145 | | | |
| **4-Chloro-3-methylphenol** | **45.7** | 10 | ug/l | 50.0 | | 91.4 | 22-147 | | | |
| **2-Chlorophenol** | **38.5** | 10 | ug/l | 50.0 | | 77.0 | 23-134 | | | |
| **1,4-Dichlorobenzene** | **30.7** | 10 | ug/l | 50.0 | | 61.4 | 20-124 | | | |
| **2,4-Dinitrotoluene** | **50.9** | 10 | ug/l | 50.0 | | 102 | 39-139 | | | |
| **4-Nitrophenol** | **48.6** | 10 | ug/l | 50.0 | | 97.2 | 0.01-132 | | | |
| **n-Nitroso-di-n-propylamine** | **37.4** | 10 | ug/l | 50.0 | | 74.8 | 0.01-230 | | | |
| **Pentachlorophenol** | **44.3** | 20 | ug/l | 50.0 | | 88.6 | 14-176 | | | |
| **Phenol** | **39.0** | 10 | ug/l | 50.0 | | 78.0 | 5-112 | | | |
| **Pyrene** | **45.3** | 10 | ug/l | 50.0 | | 90.6 | 52-115 | | | |
| **1,2,4-Trichlorobenzene** | **28.9** | 10 | ug/l | 50.0 | | 57.8 | 44-142 | | | |
| *Surrogate: 2-Fluorophenol* | *76.4* | | *ug/l* | *100* | | *76.4* | *21-100* | | | |
| *Surrogate: Phenol-d6* | *81.0* | | *ug/l* | *100* | | *81.0* | *10-94* | | | |
| *Surrogate: 2,4,6-Tribromophenol* | *98.9* | | *ug/l* | *100* | | *98.9* | *10-123* | | | |
| *Surrogate: Nitrobenzene-d5* | *33.6* | | *ug/l* | *50.0* | | *67.2* | *35-114* | | | |
| *Surrogate: 2-Fluorobiphenyl* | *37.7* | | *ug/l* | *50.0* | | *75.4* | *43-116* | | | |
| *Surrogate: Terphenyl-d14* | *40.7* | | *ug/l* | *50.0* | | *81.4* | *33-141* | | | |
| **LCS Dup Analyzed: 08/15/00 (P0G3120-BSD1)** | | | | | | | | | | |
| **Acenaphthene** | **41.9** | 10 | ug/l | 50.0 | | 83.8 | 47-145 | 0.239 | 20 | |
| **4-Chloro-3-methylphenol** | **42.8** | 10 | ug/l | 50.0 | | 85.6 | 22-147 | 6.55 | 20 | |
| **2-Chlorophenol** | **36.2** | 10 | ug/l | 50.0 | | 72.4 | 23-134 | 6.16 | 20 | |
| **1,4-Dichlorobenzene** | **31.8** | 10 | ug/l | 50.0 | | 63.6 | 20-124 | 3.52 | 20 | |
| **2,4-Dinitrotoluene** | **48.3** | 10 | ug/l | 50.0 | | 96.6 | 39-139 | 5.24 | 20 | |
| **4-Nitrophenol** | **47.7** | 10 | ug/l | 50.0 | | 95.4 | 0.01-132 | 1.87 | 20 | |
| **n-Nitroso-di-n-propylamine** | **36.6** | 10 | ug/l | 50.0 | | 73.2 | 0.01-230 | 2.16 | 20 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0406

Sampled: 07/26/00
Received: 07/26/00

METHOD BLANK/QC DATA

# ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G3120 Extracted: 07/31/00** | | | | | | | | | | |
| **LCS Dup Analyzed: 08/15/00 (P0G3120-BSD1)** | | | | | | | | | | |
| **Pentachlorophenol** | **45.3** | 20 | ug/l | 50.0 | | 90.6 | 14-176 | 2.23 | 20 | |
| **Phenol** | **38.3** | 10 | ug/l | 50.0 | | 76.6 | 5-112 | 1.81 | 20 | |
| **Pyrene** | **45.0** | 10 | ug/l | 50.0 | | 90.0 | 52-115 | 0.664 | 20 | |
| **1,2,4-Trichlorobenzene** | **32.8** | 10 | ug/l | 50.0 | | 65.6 | 44-142 | 12.6 | 20 | |
| *Surrogate: 2-Fluorophenol* | *71.9* | | *ug/l* | *100* | | *71.9* | *21-100* | | | |
| *Surrogate: Phenol-d6* | *81.3* | | *ug/l* | *100* | | *81.3* | *10-94* | | | |
| *Surrogate: 2,4,6-Tribromophenol* | *98.2* | | *ug/l* | *100* | | *98.2* | *10-123* | | | |
| *Surrogate: Nitrobenzene-d5* | *36.0* | | *ug/l* | *50.0* | | *72.0* | *35-114* | | | |
| *Surrogate: 2-Fluorobiphenyl* | *41.4* | | *ug/l* | *50.0* | | *82.8* | *43-116* | | | |
| *Surrogate: Terphenyl-d14* | *40.9* | | *ug/l* | *50.0* | | *81.8* | *33-141* | | | |
| **Matrix Spike Analyzed: 08/15/00 (P0G3120-MS1)** | | | | | **Source: PJG0406-01** | | | | | |
| **Acenaphthene** | **23.8** | 10 | ug/l | 50.0 | ND | 47.6 | 47-145 | | | |
| **4-Chloro-3-methylphenol** | **23.3** | 10 | ug/l | 50.0 | ND | 46.6 | 22-147 | | | |
| **2-Chlorophenol** | **23.3** | 10 | ug/l | 50.0 | ND | 46.6 | 23-134 | | | |
| **1,4-Dichlorobenzene** | **17.8** | 10 | ug/l | 50.0 | ND | 35.6 | 20-124 | | | |
| **2,4-Dinitrotoluene** | **24.4** | 10 | ug/l | 50.0 | ND | 48.8 | 39-139 | | | |
| **4-Nitrophenol** | **24.5** | 10 | ug/l | 50.0 | ND | 49.0 | 0.01-132 | | | |
| **n-Nitroso-di-n-propylamine** | **22.6** | 10 | ug/l | 50.0 | ND | 45.2 | 0.01-230 | | | |
| **Pentachlorophenol** | **22.5** | 20 | ug/l | 50.0 | ND | 45.0 | 14-176 | | | |
| **Phenol** | **23.2** | 10 | ug/l | 50.0 | ND | 46.4 | 5-112 | | | |
| **Pyrene** | **24.1** | 10 | ug/l | 50.0 | ND | 48.2 | 52-115 | | | M |
| **1,2,4-Trichlorobenzene** | **17.3** | 10 | ug/l | 50.0 | ND | 34.6 | 44-142 | | | M |
| *Surrogate: 2-Fluorophenol* | *46.2* | | *ug/l* | *100* | | *46.2* | *21-100* | | | |
| *Surrogate: Phenol-d6* | *49.6* | | *ug/l* | *100* | | *49.6* | *10-94* | | | |
| *Surrogate: 2,4,6-Tribromophenol* | *53.7* | | *ug/l* | *100* | | *53.7* | *10-123* | | | |
| *Surrogate: Nitrobenzene-d5* | *21.4* | | *ug/l* | *50.0* | | *42.8* | *35-114* | | | |
| *Surrogate: 2-Fluorobiphenyl* | *24.3* | | *ug/l* | *50.0* | | *48.6* | *43-116* | | | |
| *Surrogate: Terphenyl-d14* | *21.2* | | *ug/l* | *50.0* | | *42.4* | *33-141* | | | |

Julie M. Slocum
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Law Engineering
4634 S. 36th Place
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Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0406

Sampled: 07/26/00
Received: 07/26/00

METHOD BLANK/QC DATA

## ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G3120 Extracted: 07/31/00** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 08/15/00 (P0G3120-MSD1)** | | | | | **Source: PJG0406-01** | | | | | |
| **Acenaphthene** | **21.9** | 10 | ug/l | 50.0 | ND | 43.8 | 47-145 | 8.32 | 20 | M |
| **4-Chloro-3-methylphenol** | **20.9** | 10 | ug/l | 50.0 | ND | 41.8 | 22-147 | 10.9 | 20 | |
| **2-Chlorophenol** | **21.5** | 10 | ug/l | 50.0 | ND | 43.0 | 23-134 | 8.04 | 20 | |
| **1,4-Dichlorobenzene** | **16.3** | 10 | ug/l | 50.0 | ND | 32.6 | 20-124 | 8.80 | 20 | |
| **2,4-Dinitrotoluene** | **23.5** | 10 | ug/l | 50.0 | ND | 47.0 | 39-139 | 3.76 | 20 | |
| **4-Nitrophenol** | **23.2** | 10 | ug/l | 50.0 | ND | 46.4 | 0.01-132 | 5.45 | 20 | |
| **n-Nitroso-di-n-propylamine** | **19.3** | 10 | ug/l | 50.0 | ND | 38.6 | 0.01-230 | 15.8 | 20 | |
| **Pentachlorophenol** | **21.5** | 20 | ug/l | 50.0 | ND | 43.0 | 14-176 | 4.55 | 20 | |
| **Phenol** | **21.4** | 10 | ug/l | 50.0 | ND | 42.8 | 5-112 | 8.07 | 20 | |
| **Pyrene** | **23.7** | 10 | ug/l | 50.0 | ND | 47.4 | 52-115 | 1.67 | 20 | M |
| **1,2,4-Trichlorobenzene** | **15.8** | 10 | ug/l | 50.0 | ND | 31.6 | 44-142 | 9.06 | 20 | M |
| *Surrogate: 2-Fluorophenol* | *44.5* | | *ug/l* | *100* | | *44.5* | *21-100* | | | |
| *Surrogate: Phenol-d6* | *45.1* | | *ug/l* | *100* | | *45.1* | *10-94* | | | |
| *Surrogate: 2,4,6-Tribromophenol* | *50.0* | | *ug/l* | *100* | | *50.0* | *10-123* | | | |
| *Surrogate: Nitrobenzene-d5* | *19.9* | | *ug/l* | *50.0* | | *39.8* | *35-114* | | | |
| *Surrogate: 2-Fluorobiphenyl* | *21.9* | | *ug/l* | *50.0* | | *43.8* | *43-116* | | | |
| *Surrogate: Terphenyl-d14* | *20.9* | | *ug/l* | *50.0* | | *41.8* | *33-141* | | | |

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Law Engineering
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Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0406

Sampled: 07/26/00
Received: 07/26/00

## METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G2703 Extracted: 07/27/00** | | | | | | | | | | |
| **Blank Analyzed: 07/31/00 (P0G2703-BLK1)** | | | | | | | | | | |
| Antimony | ND | 0.0040 | mg/l | | | | | | | |
| Arsenic | ND | 0.0030 | mg/l | | | | | | | |
| Beryllium | ND | 0.00050 | mg/l | | | | | | | |
| Cadmium | ND | 0.00050 | mg/l | | | | | | | |
| Chromium | ND | 0.0040 | mg/l | | | | | | | |
| Selenium | ND | 0.0040 | mg/l | | | | | | | |
| **Blank Analyzed: 07/31/00 (P0G2703-BLK2)** | | | | | | | | | | |
| Antimony | ND | 0.0040 | mg/l | | | | | | | |
| Arsenic | ND | 0.0030 | mg/l | | | | | | | |
| Beryllium | ND | 0.00050 | mg/l | | | | | | | |
| Cadmium | ND | 0.00050 | mg/l | | | | | | | |
| Chromium | ND | 0.0040 | mg/l | | | | | | | |
| Selenium | ND | 0.0040 | mg/l | | | | | | | |
| **LCS Analyzed: 07/31/00 (P0G2703-BS1)** | | | | | | | | | | |
| **Antimony** | **0.0368** | 0.0080 | mg/l | 0.0400 | | 92.0 | 85-115 | | | |
| **Arsenic** | **0.0324** | 0.0060 | mg/l | 0.0400 | | 81.0 | 85-115 | | | |
| **Beryllium** | **0.0161** | 0.0010 | mg/l | 0.00200 | | 805 | 85-115 | | | |
| **Cadmium** | **0.00155** | 0.0010 | mg/l | 0.00200 | | 77.5 | 85-115 | | | |
| **Chromium** | **0.0356** | 0.0080 | mg/l | 0.0400 | | 89.0 | 85-115 | | | |
| **Selenium** | **0.0346** | 0.0080 | mg/l | 0.0400 | | 86.5 | 85-115 | | | |
| **LCS Dup Analyzed: 07/31/00 (P0G2703-BSD1)** | | | | | | | | | | |
| **Antimony** | **0.0370** | 0.0080 | mg/l | 0.0400 | | 92.5 | 85-115 | 0.542 | 20 | |
| **Arsenic** | **0.0343** | 0.0060 | mg/l | 0.0400 | | 85.8 | 85-115 | 5.70 | 20 | |
| **Beryllium** | **0.00179** | 0.0010 | mg/l | 0.00200 | | 89.5 | 85-115 | 160 | 20 | |
| **Cadmium** | **0.00172** | 0.0010 | mg/l | 0.00200 | | 86.0 | 85-115 | 10.4 | 20 | |
| **Chromium** | **0.0368** | 0.0080 | mg/l | 0.0400 | | 92.0 | 85-115 | 3.31 | 20 | |
| **Selenium** | **0.0351** | 0.0080 | mg/l | 0.0400 | | 87.8 | 85-115 | 1.43 | 20 | |

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Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0406

Sampled: 07/26/00
Received: 07/26/00

METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G2703 Extracted: 07/27/00** | | | | | | | | | | |
| **Matrix Spike Analyzed: 07/31/00 (P0G2703-MS1)** | | | | | **Source: PJG0406-01** | | | | | |
| **Antimony** | **0.0402** | 0.0080 | mg/l | 0.0400 | ND | 100 | 70-130 | | | |
| **Beryllium** | **0.00215** | 0.0010 | mg/l | 0.00200 | | 107 | 70-130 | | | |
| Cadmium | ND | 0.0010 | mg/l | 0.00200 | | 41.4 | 70-130 | | | |
| **Chromium** | **0.0479** | 0.0080 | mg/l | 0.0400 | 0.0081 | 99.5 | 70-130 | | | |
| **Selenium** | **0.0331** | 0.0080 | mg/l | 0.0400 | ND | 78.3 | 70-130 | | | |
| **Matrix Spike Dup Analyzed: 07/31/00 (P0G2703-MSD1)** | | | | | **Source: PJG0406-01** | | | | | |
| **Antimony** | **0.0391** | 0.0080 | mg/l | 0.0400 | ND | 97.7 | 70-130 | 2.77 | 20 | |
| **Beryllium** | **0.00209** | 0.0010 | mg/l | 0.00200 | | 104 | 70-130 | 2.83 | 20 | |
| **Cadmium** | **0.00186** | 0.0010 | mg/l | 0.00200 | | 93.0 | 70-130 | 76.8 | 20 | |
| **Chromium** | **0.0471** | 0.0080 | mg/l | 0.0400 | 0.0081 | 97.5 | 70-130 | 1.68 | 20 | |
| **Selenium** | **0.0332** | 0.0080 | mg/l | 0.0400 | ND | 78.5 | 70-130 | 0.302 | 20 | |
| **Batch: P0G2722 Extracted: 07/27/00** | | | | | | | | | | |
| **Blank Analyzed: 07/27/00 (P0G2722-BLK1)** | | | | | | | | | | |
| Aluminum | ND | 0.50 | mg/l | | | | | | | |
| Barium | ND | 0.010 | mg/l | | | | | | | |
| Calcium | ND | 2.0 | mg/l | | | | | | | |
| Cobalt | ND | 0.050 | mg/l | | | | | | | |
| Copper | ND | 0.020 | mg/l | | | | | | | |
| Iron | ND | 0.10 | mg/l | | | | | | | |
| Lead | ND | 0.050 | mg/l | | | | | | | |
| Magnesium | ND | 0.50 | mg/l | | | | | | | |
| Manganese | ND | 0.020 | mg/l | | | | | | | |
| Nickel | ND | 0.050 | mg/l | | | | | | | |
| Silver | ND | 0.0050 | mg/l | | | | | | | |
| Sodium | ND | 5.0 | mg/l | | | | | | | |
| Strontium | ND | 0.10 | mg/l | | | | | | | |
| Vanadium | ND | 0.050 | mg/l | | | | | | | |
| Zinc | ND | 0.050 | mg/l | | | | | | | |

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Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0406

Sampled: 07/26/00
Received: 07/26/00

METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G2722 Extracted: 07/27/00** | | | | | | | | | | |
| **LCS Analyzed: 07/27/00 (P0G2722-BS1)** | | | | | | | | | | |
| **Aluminum** | **1.02** | 0.50 | mg/l | 1.00 | | 102 | 85-115 | | | |
| **Barium** | **0.892** | 0.010 | mg/l | 1.00 | | 89.2 | 85-115 | | | |
| **Calcium** | **9.01** | 2.0 | mg/l | 10.0 | | 90.1 | 85-115 | | | |
| **Cobalt** | **0.870** | 0.050 | mg/l | 1.00 | | 87.0 | 85-115 | | | |
| **Copper** | **0.867** | 0.020 | mg/l | 1.00 | | 86.7 | 85-115 | | | |
| **Iron** | **9.14** | 0.10 | mg/l | 10.0 | | 91.4 | 85-115 | | | |
| **Lead** | **0.881** | 0.050 | mg/l | 1.00 | | 88.1 | 85-115 | | | |
| **Magnesium** | **8.67** | 0.50 | mg/l | 10.0 | | 86.7 | 85-115 | | | |
| **Manganese** | **0.881** | 0.020 | mg/l | 1.00 | | 88.1 | 85-115 | | | |
| **Nickel** | **0.864** | 0.050 | mg/l | 1.00 | | 86.4 | 85-115 | | | |
| **Silver** | **0.0443** | 0.0050 | mg/l | 0.0500 | | 88.6 | 85-115 | | | |
| **Sodium** | **47.0** | 5.0 | mg/l | 50.0 | | 94.0 | 85-115 | | | |
| Strontium | ND | 0.10 | mg/l | 0.100 | | 86.4 | 85-115 | | | |
| **Vanadium** | **0.885** | 0.050 | mg/l | 1.00 | | 88.5 | 85-115 | | | |
| **Zinc** | **0.881** | 0.050 | mg/l | 1.00 | | 88.1 | 85-115 | | | |
| **LCS Dup Analyzed: 07/27/00 (P0G2722-BSD1)** | | | | | | | | | | |
| **Aluminum** | **1.22** | 0.50 | mg/l | 1.00 | | 122 | 85-115 | 17.9 | 20 | |
| **Barium** | **0.933** | 0.010 | mg/l | 1.00 | | 93.3 | 85-115 | 4.49 | 20 | |
| **Calcium** | **9.88** | 2.0 | mg/l | 10.0 | | 98.8 | 85-115 | 9.21 | 20 | |
| **Cobalt** | **0.918** | 0.050 | mg/l | 1.00 | | 91.8 | 85-115 | 5.37 | 20 | |
| **Copper** | **0.911** | 0.020 | mg/l | 1.00 | | 91.1 | 85-115 | 4.95 | 20 | |
| **Iron** | **9.66** | 0.10 | mg/l | 10.0 | | 96.6 | 85-115 | 5.53 | 20 | |
| **Lead** | **0.925** | 0.050 | mg/l | 1.00 | | 92.5 | 85-115 | 4.87 | 20 | |
| **Magnesium** | **9.19** | 0.50 | mg/l | 10.0 | | 91.9 | 85-115 | 5.82 | 20 | |
| **Manganese** | **0.925** | 0.020 | mg/l | 1.00 | | 92.5 | 85-115 | 4.87 | 20 | |
| **Nickel** | **0.910** | 0.050 | mg/l | 1.00 | | 91.0 | 85-115 | 5.19 | 20 | |
| **Silver** | **0.0463** | 0.0050 | mg/l | 0.0500 | | 92.6 | 85-115 | 4.42 | 20 | |
| **Sodium** | **48.7** | 5.0 | mg/l | 50.0 | | 97.4 | 85-115 | 3.55 | 20 | |
| Strontium | ND | 0.10 | mg/l | 0.100 | | 94.9 | 85-115 | 9.38 | 20 | |
| **Vanadium** | **0.933** | 0.050 | mg/l | 1.00 | | 93.3 | 85-115 | 5.28 | 20 | |
| **Zinc** | **0.987** | 0.050 | mg/l | 1.00 | | 98.7 | 85-115 | 11.3 | 20 | |

Julie M. Slocum
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Client Project ID: 70211-0-0150-02-2.2

Report Number: PJG0406

Sampled: 07/26/00
Received: 07/26/00

## METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G2722 Extracted: 07/27/00** | | | | | | | | | | |
| **LCS Dup Analyzed: 07/27/00 (P0G2722-BSD1)** | | | | | | | | | | |
| **Matrix Spike Analyzed: 07/27/00 (P0G2722-MS1)** | | | | | **Source: PJG0406-01** | | | | | |
| **Aluminum** | **1.38** | 0.50 | mg/l | 1.00 | ND | 118 | 70-130 | | | |
| **Barium** | **1.05** | 0.010 | mg/l | 1.00 | 0.12 | 93.0 | 70-130 | | | |
| **Calcium** | **140** | 2.0 | mg/l | 10.0 | 130 | 100 | 70-130 | | | |
| **Cobalt** | **0.917** | 0.050 | mg/l | 1.00 | ND | 91.7 | 70-130 | | | |
| **Copper** | **0.936** | 0.020 | mg/l | 1.00 | ND | 92.4 | 70-130 | | | |
| **Iron** | **9.85** | 0.10 | mg/l | 10.0 | 0.18 | 96.7 | 70-130 | | | |
| **Lead** | **0.914** | 0.050 | mg/l | 1.00 | ND | 91.4 | 70-130 | | | |
| **Magnesium** | **53.3** | 0.50 | mg/l | 10.0 | 44 | 93.0 | 70-130 | | | |
| **Manganese** | **0.946** | 0.020 | mg/l | 1.00 | ND | 94.0 | 70-130 | | | |
| **Nickel** | **0.899** | 0.050 | mg/l | 1.00 | ND | 88.6 | 70-130 | | | |
| **Silver** | **0.0480** | 0.0050 | mg/l | 0.0500 | ND | 96.0 | 70-130 | | | |
| **Sodium** | **364** | 5.0 | mg/l | 50.0 | 320 | 88.0 | 85-115 | | | |
| **Strontium** | **1.33** | 0.50 | mg/l | 0.100 | 1.3 | 30.0 | 70-130 | | | M |
| **Vanadium** | **0.995** | 0.050 | mg/l | 1.00 | ND | 98.9 | 70-130 | | | |
| **Zinc** | **0.940** | 0.050 | mg/l | 1.00 | ND | 94.0 | 70-130 | | | |
| **Matrix Spike Dup Analyzed: 07/27/00 (P0G2722-MSD1)** | | | | | **Source: PJG0406-01** | | | | | |
| **Aluminum** | **1.41** | 0.50 | mg/l | 1.00 | ND | 121 | 70-130 | 2.15 | 20 | |
| **Barium** | **1.06** | 0.010 | mg/l | 1.00 | 0.12 | 94.0 | 70-130 | 0.948 | 20 | |
| **Calcium** | **144** | 2.0 | mg/l | 10.0 | 130 | 140 | 70-130 | 2.82 | 20 | M |
| **Cobalt** | **0.938** | 0.050 | mg/l | 1.00 | ND | 93.8 | 70-130 | 2.26 | 20 | |
| **Copper** | **0.972** | 0.020 | mg/l | 1.00 | ND | 96.0 | 70-130 | 3.77 | 20 | |
| **Iron** | **10.1** | 0.10 | mg/l | 10.0 | 0.18 | 99.2 | 70-130 | 2.51 | 20 | |
| **Lead** | **0.935** | 0.050 | mg/l | 1.00 | ND | 93.5 | 70-130 | 2.27 | 20 | |
| **Magnesium** | **53.8** | 0.50 | mg/l | 10.0 | 44 | 98.0 | 70-130 | 0.934 | 20 | |
| **Manganese** | **0.971** | 0.020 | mg/l | 1.00 | ND | 96.5 | 70-130 | 2.61 | 20 | |
| **Nickel** | **0.922** | 0.050 | mg/l | 1.00 | ND | 90.9 | 70-130 | 2.53 | 20 | |
| **Silver** | **0.0492** | 0.0050 | mg/l | 0.0500 | ND | 98.4 | 70-130 | 2.47 | 20 | |
| **Sodium** | **364** | 5.0 | mg/l | 50.0 | 320 | 88.0 | 85-115 | 0 | 20 | |
| **Strontium** | **1.35** | 0.50 | mg/l | 0.100 | 1.3 | 50.0 | 70-130 | 1.49 | 20 | M |
| **Vanadium** | **1.00** | 0.050 | mg/l | 1.00 | ND | 99.4 | 70-130 | 0.501 | 20 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0406

Sampled: 07/26/00
Received: 07/26/00

METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G2722 Extracted: 07/27/00** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 07/27/00 (P0G2722-MSD1)** | | | | | **Source: PJG0406-01** | | | | | |
| **Zinc** | **1.17** | 0.050 | mg/l | 1.00 | ND | 117 | 70-130 | 21.8 | 20 | M |
| **Batch: P0H0106 Extracted: 08/01/00** | | | | | | | | | | |
| **Blank Analyzed: 08/02/00 (P0H0106-BLK1)** | | | | | | | | | | |
| Arsenic | ND | 0.0030 | mg/l | | | | | | | |
| Beryllium | ND | 0.00050 | mg/l | | | | | | | |
| **Cadmium** | **0.00125** | 0.00050 | mg/l | | | | | | | |
| **Blank Analyzed: 08/02/00 (P0H0106-BLK2)** | | | | | | | | | | |
| Arsenic | ND | 0.0030 | mg/l | | | | | | | |
| Beryllium | ND | 0.00050 | mg/l | | | | | | | |
| **Cadmium** | **0.000531** | 0.00050 | mg/l | | | | | | | |
| **LCS Analyzed: 08/02/00 (P0H0106-BS1)** | | | | | | | | | | |
| **Arsenic** | **0.0392** | 0.0060 | mg/l | 0.0400 | | 98.0 | 85-115 | | | |
| **Beryllium** | **0.00183** | 0.0010 | mg/l | 0.00200 | | 91.5 | 85-115 | | | |
| **Cadmium** | **0.00232** | 0.0010 | mg/l | 0.00200 | | 116 | 85-115 | | | |
| **LCS Dup Analyzed: 08/02/00 (P0H0106-BSD1)** | | | | | | | | | | |
| **Arsenic** | **0.0401** | 0.0060 | mg/l | 0.0400 | | 100 | 85-115 | 2.27 | 20 | |
| **Beryllium** | **0.00187** | 0.0010 | mg/l | 0.00200 | | 93.5 | 85-115 | 2.16 | 20 | |
| **Cadmium** | **0.00220** | 0.0010 | mg/l | 0.00200 | | 110 | 85-115 | 5.31 | 20 | |
| **Matrix Spike Analyzed: 08/02/00 (P0H0106-MS1)** | | | | | **Source: PJG0341-01RE1** | | | | | |
| **Arsenic** | **0.0479** | 0.0060 | mg/l | 0.0400 | 0.0062 | 104 | 70-130 | | | |
| **Beryllium** | **0.00302** | 0.0010 | mg/l | 0.00200 | ND | 128 | 70-130 | | | |
| **Cadmium** | **0.00241** | 0.0010 | mg/l | 0.00200 | ND | 104 | 70-130 | | | |

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0406

Sampled: 07/26/00
Received: 07/26/00

METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0H0106 Extracted: 08/01/00** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 08/02/00 (P0H0106-MSD1)** | | | | | **Source: PJG0341-01RE1** | | | | | |
| **Arsenic** | **0.0456** | 0.0060 | mg/l | 0.0400 | 0.0062 | 98.5 | 70-130 | 4.92 | 20 | |
| **Beryllium** | **0.00287** | 0.0010 | mg/l | 0.00200 | ND | 120 | 70-130 | 5.09 | 20 | |
| **Cadmium** | **0.00231** | 0.0010 | mg/l | 0.00200 | ND | 99.5 | 70-130 | 4.24 | 20 | |

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Project Manager



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| | | |
|---|---|---|
| Law Engineering<br>4634 S. 36th Place<br>Phoenix, AZ 85040<br>Attention: Jim Clarke | Client Project ID: 70211-0-0150-02-2.2<br>Report Number: PJG0406 | Sampled: 07/26/00<br>Received: 07/26/00 |

METHOD BLANK/QC DATA

# DATA QUALIFIERS AND DEFINITIONS

| | |
|---|---|
| **C2** | Calibration Verification recovery was below the method control limit for this analyte, however the average % difference for all analytes met method criteria. See Calibration Check Criteria form. |
| **L** | Laboratory Control Sample recovery was above the method control limits. Analyte not detected, data not impacted. |
| **M** | The MS and/or MSD were outside of the acceptance limits due to sample matrix interference. See Blank Spike (LCS). |
| **R** | The RPD exceeded the method control limit due to sample matrix effects. The individual analyte QA/QC recoveries, however, were within acceptance limits. |
| **ND** | Analyte NOT DETECTED at or above the reporting limit |
| **NR** | Not reported. |
| **RPD** | Relative Percent Difference |

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJG0406

Sampled: 07/26/00
Received: 07/26/00

## CALIBRATION CHECK CRITERIA

## ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

The % recovery for the following individual compounds fell outside the ± 15% criteria, however the average % recovery of all compounds in the calibration check solution was within ± 15%, thus meeting the overall calibration check criteria.

| Compound | Footnote | Calibration Check % Recovery | Lab Number | Batch |
|---|---|---|---|---|
| Benzidine | 2 | 53.2 | PJG0406-01 | P0G3120 |

Footnotes:

1 The calibration demonstrated a high bias for this compound. Samples were flagged to indicate a possible high bias in the result for this compound.

2 The calibration demonstrated a low bias for this compound. Samples were flagged to indicate a possible low bias in the result for this compound.

Julie M. Slocum
Project Manager



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# CHAIN OF CUSTODY FORM

Quote #: _____ Page _____ of _____

Client Name/Address:
LAW Engineering
4634 S 36th Place
Phoenix, AZ 85040

Project/PO Number:
S Mesa WQARF
76211-0-015-02-202

Project Manager:
Jim Clarke

Phone Number:
602-437-0250

Sampler: Ron Bednar / Marsha Hart

Fax Number:

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date/Time | Preservatives | Analysis Required: 8260 | 8015 | Metals (Pb*) | Special Instructions |
|---|---|---|---|---|---|---|---|---|---|
| MW1D MW2D* | Water | 2 VOA | 2 | 7-26-00 | HCL | X | | | PSC-04006-01 |
| 11 | $H_2O$ | 2 liter amber | 1 | " noon " | None | | X | | |
| 11 | $H_2O$ | 500 ml Poly | 1 | " " | Nitric | | | X | |
| Trip Blank | | | | | | X | | | -02 |
| | | | | | | | | | |
| * changed per | | | | | | | | | |
| Jim Clarke | | | | | | | | | |
| jmc 8/22/00 | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Relinquished By: Marsha Hart Date /Time: July 26 00 1300
Received by: Date /Time:

Relinquished By: Date /Time:
Received by: Date /Time: 7-26-00

Relinquished By: Date /Time: 7-26-00
Received in Lab by: James Wood Date /Time: 7-26-00 1300

Turnaround Time: (Check)
same day _____ 72 hours _____
24 hours _____ 5 days _____
48 hours _____ normal X

Sample Integrity: (Check)
intact X on ice X

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

COC-GB

Del Mar Analytical

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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

| | | |
|---|---|---|
| Law Engineering<br>4634 S. 36th Place<br>Phoenix, AZ 85040<br>Attention: Jim Clarke | Client Project ID: 70211-0-0150<br>Report Number: PJG0053 | Sampled: 07/06/00<br>Received: 07/06/00<br>Issued: 09/28/00<br>Revised: 09/28/00 |

# CASE NARRATIVE

| LABORATORY NUMBER | SAMPLE DESCRIPTION | SAMPLE MATRIX |
|---|---|---|
| PJG0053-01 | MW-1S | Water |
| PJG0053-02 | MW-1D | Water |
| PJG0053-03 | MW-5S | Water |
| PJG0053-04 | MW-5D | Water |
| PJG0053-05 | MW-10D | Water |
| PJG0053-06 | SRP 28E-ON | Water |
| PJG0053-07 | Trip Blank | Water |

SAMPLE RECEIPT: Samples were received intact, on ice, and with chain of custody documentation.

HOLDING TIMES: Holding times were met.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: One or more method QC parameter exceeded acceptance limits. See Corrective Action Report.

OBSERVATIONS: Because no limits have been established for a full spike list for the MS/MSD or LCS/LCSD within the last year, acceptance limits for compounds without specific acceptance limits in the QAPP have been taken from control charts generated November of 1998.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

**DEL MAR ANALYTICAL , PHOENIX (AZ0426)**

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150
Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0053-01 (MW-1S - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P0G1213 | 20 | ND | 1 | 7/12/00 | 7/12/00 | |
| Benzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Bromobenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Bromochloromethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Bromodichloromethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Bromoform | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Bromomethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 2-Butanone (MEK) | EPA 8260B | P0G1213 | 10 | ND | 1 | 7/12/00 | 7/12/00 | |
| n-Butylbenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| sec-Butylbenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| tert-Butylbenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Carbon Disulfide | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Carbon tetrachloride | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Chlorobenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Chloroethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Chloroform | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Chloromethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 2-Chlorotoluene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 4-Chlorotoluene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Dibromochloromethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Dibromomethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2-Dichlorobenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,3-Dichlorobenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,4-Dichlorobenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Dichlorodifluoromethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1-Dichloroethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2-Dichloroethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1-Dichloroethene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| cis-1,2-Dichloroethene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| trans-1,2-Dichloroethene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2-Dichloropropane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,3-Dichloropropane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 2,2-Dichloropropane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1-Dichloropropene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| cis-1,3-Dichloropropene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| trans-1,3-Dichloropropene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Ethylbenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Hexachlorobutadiene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 2-Hexanone | EPA 8260B | P0G1213 | 10 | ND | 1 | 7/12/00 | 7/12/00 | |
| Iodomethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Isopropylbenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |

Julie M. Slocum
Project Manager



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Attention: Jim Clarke

Client Project ID: 70211-0-0150

Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0053-01 (MW-1S - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Methylene chloride | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 4-Methyl-2-pentatnone (MIBK) | EPA 8260B | P0G1213 | 10 | ND | 1 | 7/12/00 | 7/12/00 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Naphthalene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| n-Propylbenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Styrene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Tetrachloroethene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Toluene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1,1-Trichloroethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1,2-Trichloroethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Trichloroethene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Trichlorofluoromethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2,3-Trichloropropane | EPA 8260B | P0G1213 | 10 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Vinyl acetate | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Vinyl chloride | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Xylenes, Total | EPA 8260B | P0G1213 | 10 | ND | 1 | 7/12/00 | 7/12/00 | |
| *Surrogate: Dibromofluoromethane (70-160%)* | | | | *96.8 %* | | | | |
| *Surrogate: Toluene-d8 (75-140%)* | | | | *87.6 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (75-135%)* | | | | *93.6 %* | | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150
Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0053-02 (MW-1D - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P0G1213 | 20 | ND | 1 | 7/12/00 | 7/12/00 | |
| Benzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Bromobenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Bromochloromethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Bromodichloromethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Bromoform | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Bromomethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 2-Butanone (MEK) | EPA 8260B | P0G1213 | 10 | ND | 1 | 7/12/00 | 7/12/00 | |
| n-Butylbenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| sec-Butylbenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| tert-Butylbenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Carbon Disulfide | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Carbon tetrachloride | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Chlorobenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Chloroethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Chloroform | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Chloromethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 2-Chlorotoluene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 4-Chlorotoluene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Dibromochloromethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Dibromomethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2-Dichlorobenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,3-Dichlorobenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,4-Dichlorobenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Dichlorodifluoromethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1-Dichloroethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2-Dichloroethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1-Dichloroethene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| cis-1,2-Dichloroethene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| trans-1,2-Dichloroethene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2-Dichloropropane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,3-Dichloropropane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 2,2-Dichloropropane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1-Dichloropropene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| cis-1,3-Dichloropropene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| trans-1,3-Dichloropropene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Ethylbenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Hexachlorobutadiene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 2-Hexanone | EPA 8260B | P0G1213 | 10 | ND | 1 | 7/12/00 | 7/12/00 | |
| Iodomethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Isopropylbenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150
Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0053-02 (MW-1D - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Methylene chloride | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 4-Methyl-2-pentatnone (MIBK) | EPA 8260B | P0G1213 | 10 | ND | 1 | 7/12/00 | 7/12/00 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Naphthalene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| n-Propylbenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Styrene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Tetrachloroethene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Toluene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1,1-Trichloroethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1,2-Trichloroethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Trichloroethene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Trichlorofluoromethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2,3-Trichloropropane | EPA 8260B | P0G1213 | 10 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Vinyl acetate | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Vinyl chloride | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Xylenes, Total | EPA 8260B | P0G1213 | 10 | ND | 1 | 7/12/00 | 7/12/00 | |
| *Surrogate: Dibromofluoromethane (70-160%)* | | | | *94.4 %* | | | | |
| *Surrogate: Toluene-d8 (75-140%)* | | | | *88.8 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (75-135%)* | | | | *95.6 %* | | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150
Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0053-03 (MW-5S - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P0G1303 | 20 | ND | 1 | 7/13/00 | 7/13/00 | |
| Benzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Bromobenzene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Bromochloromethane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Bromodichloromethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Bromoform | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Bromomethane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 2-Butanone (MEK) | EPA 8260B | P0G1303 | 10. | ND | 1 | 7/13/00 | 7/13/00 | |
| n-Butylbenzene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| sec-Butylbenzene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| tert-Butylbenzene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Carbon Disulfide | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Carbon tetrachloride | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Chlorobenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Chloroethane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Chloroform | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Chloromethane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | L3 |
| 2-Chlorotoluene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 4-Chlorotoluene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Dibromochloromethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Dibromomethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2-Dichlorobenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,3-Dichlorobenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,4-Dichlorobenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Dichlorodifluoromethane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,1-Dichloroethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2-Dichloroethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,1-Dichloroethene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| cis-1,2-Dichloroethene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| trans-1,2-Dichloroethene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2-Dichloropropane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,3-Dichloropropane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 2,2-Dichloropropane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,1-Dichloropropene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| cis-1,3-Dichloropropene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| trans-1,3-Dichloropropene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Ethylbenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Hexachlorobutadiene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 2-Hexanone | EPA 8260B | P0G1303 | 10 | ND | 1 | 7/13/00 | 7/13/00 | |
| Iodomethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Isopropylbenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150
Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0053-03 (MW-5S - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Methylene chloride | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 4-Methyl-2-pentatnone (MIBK) | EPA 8260B | P0G1303 | 10 | ND | 1 | 7/13/00 | 7/13/00 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Naphthalene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| n-Propylbenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Styrene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Tetrachloroethene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Toluene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,1,1-Trichloroethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,1,2-Trichloroethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Trichloroethene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Trichlorofluoromethane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2,3-Trichloropropane | EPA 8260B | P0G1303 | 10 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Vinyl acetate | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Vinyl chloride | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Xylenes, Total | EPA 8260B | P0G1303 | 10 | ND | 1 | 7/13/00 | 7/13/00 | |
| *Surrogate: Dibromofluoromethane (70-160%)* | | | | *99.6 %* | | | | |
| *Surrogate: Toluene-d8 (75-140%)* | | | | *96.8 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (75-135%)* | | | | *91.2 %* | | | | |

Julie M. Slocum
Project Manager



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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150
Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0053-04 (MW-5D - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P0G1213 | 20 | ND | 1 | 7/12/00 | 7/12/00 | |
| Benzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Bromobenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Bromochloromethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Bromodichloromethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Bromoform | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Bromomethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 2-Butanone (MEK) | EPA 8260B | P0G1213 | 10 | ND | 1 | 7/12/00 | 7/12/00 | |
| n-Butylbenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| sec-Butylbenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| tert-Butylbenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Carbon Disulfide | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Carbon tetrachloride | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Chlorobenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Chloroethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Chloroform | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Chloromethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 2-Chlorotoluene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 4-Chlorotoluene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Dibromochloromethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Dibromomethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2-Dichlorobenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,3-Dichlorobenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,4-Dichlorobenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Dichlorodifluoromethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1-Dichloroethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2-Dichloroethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1-Dichloroethene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| cis-1,2-Dichloroethene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| trans-1,2-Dichloroethene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2-Dichloropropane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,3-Dichloropropane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 2,2-Dichloropropane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1-Dichloropropene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| cis-1,3-Dichloropropene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| trans-1,3-Dichloropropene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Ethylbenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Hexachlorobutadiene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 2-Hexanone | EPA 8260B | P0G1213 | 10 | ND | 1 | 7/12/00 | 7/12/00 | |
| Iodomethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Isopropylbenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150
Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0053-04 (MW-5D - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Methylene chloride | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 4-Methyl-2-pentatnone (MIBK) | EPA 8260B | P0G1213 | 10 | ND | 1 | 7/12/00 | 7/12/00 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Naphthalene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| n-Propylbenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Styrene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| **Tetrachloroethene** | EPA 8260B | P0G1213 | 2.0 | **7.3** | 1 | 7/12/00 | 7/12/00 | |
| Toluene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1,1-Trichloroethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1,2-Trichloroethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Trichloroethene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Trichlorofluoromethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2,3-Trichloropropane | EPA 8260B | P0G1213 | 10 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Vinyl acetate | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Vinyl chloride | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Xylenes, Total | EPA 8260B | P0G1213 | 10 | ND | 1 | 7/12/00 | 7/12/00 | |
| *Surrogate: Dibromofluoromethane (70-160%)* | | | | *99.2 %* | | | | |
| *Surrogate: Toluene-d8 (75-140%)* | | | | *87.6 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (75-135%)* | | | | *90.4 %* | | | | |

Julie M. Slocum
Project Manager



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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150
Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0053-05 (MW-10D - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P0G1213 | 20 | ND | 1 | 7/12/00 | 7/12/00 | |
| Benzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Bromobenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Bromochloromethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Bromodichloromethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Bromoform | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Bromomethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 2-Butanone (MEK) | EPA 8260B | P0G1213 | 10 | ND | 1 | 7/12/00 | 7/12/00 | |
| n-Butylbenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| sec-Butylbenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| tert-Butylbenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Carbon Disulfide | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Carbon tetrachloride | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Chlorobenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Chloroethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Chloroform | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Chloromethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 2-Chlorotoluene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 4-Chlorotoluene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Dibromochloromethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Dibromomethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2-Dichlorobenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,3-Dichlorobenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,4-Dichlorobenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Dichlorodifluoromethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1-Dichloroethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2-Dichloroethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1-Dichloroethene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| cis-1,2-Dichloroethene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| trans-1,2-Dichloroethene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2-Dichloropropane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,3-Dichloropropane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 2,2-Dichloropropane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1-Dichloropropene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| cis-1,3-Dichloropropene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| trans-1,3-Dichloropropene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Ethylbenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Hexachlorobutadiene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 2-Hexanone | EPA 8260B | P0G1213 | 10 | ND | 1 | 7/12/00 | 7/12/00 | |
| Iodomethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Isopropylbenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |

Julie M. Slocum
Project Manager



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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150

Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0053-05 (MW-10D - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Methylene chloride | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 4-Methyl-2-pentatnone (MIBK) | EPA 8260B | P0G1213 | 10 | ND | 1 | 7/12/00 | 7/12/00 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Naphthalene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| n-Propylbenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Styrene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| **Tetrachloroethene** | EPA 8260B | P0G1213 | 2.0 | **7.4** | 1 | 7/12/00 | 7/12/00 | |
| Toluene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1,1-Trichloroethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1,2-Trichloroethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Trichloroethene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Trichlorofluoromethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2,3-Trichloropropane | EPA 8260B | P0G1213 | 10 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Vinyl acetate | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Vinyl chloride | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Xylenes, Total | EPA 8260B | P0G1213 | 10 | ND | 1 | 7/12/00 | 7/12/00 | |
| *Surrogate: Dibromofluoromethane (70-160%)* | | | | *97.2 %* | | | | |
| *Surrogate: Toluene-d8 (75-140%)* | | | | *90.0 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (75-135%)* | | | | *92.4 %* | | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150
Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0053-06 (SRP 28E-ON - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P0G1213 | 20 | ND | 1 | 7/12/00 | 7/12/00 | |
| Benzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Bromobenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Bromochloromethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Bromodichloromethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Bromoform | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Bromomethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 2-Butanone (MEK) | EPA 8260B | P0G1213 | 10 | ND | 1 | 7/12/00 | 7/12/00 | |
| n-Butylbenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| sec-Butylbenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| tert-Butylbenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Carbon Disulfide | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Carbon tetrachloride | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Chlorobenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Chloroethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Chloroform | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Chloromethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 2-Chlorotoluene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 4-Chlorotoluene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Dibromochloromethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Dibromomethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2-Dichlorobenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,3-Dichlorobenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,4-Dichlorobenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Dichlorodifluoromethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1-Dichloroethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2-Dichloroethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1-Dichloroethene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| cis-1,2-Dichloroethene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| trans-1,2-Dichloroethene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2-Dichloropropane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,3-Dichloropropane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 2,2-Dichloropropane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1-Dichloropropene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| cis-1,3-Dichloropropene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| trans-1,3-Dichloropropene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Ethylbenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Hexachlorobutadiene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 2-Hexanone | EPA 8260B | P0G1213 | 10 | ND | 1 | 7/12/00 | 7/12/00 | |
| Iodomethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Isopropylbenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150

Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0053-06 (SRP 28E-ON - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Methylene chloride | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 4-Methyl-2-pentatnone (MIBK) | EPA 8260B | P0G1213 | 10 | ND | 1 | 7/12/00 | 7/12/00 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Naphthalene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| n-Propylbenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Styrene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| **Tetrachloroethene** | EPA 8260B | P0G1213 | 2.0 | **6.5** | 1 | 7/12/00 | 7/12/00 | |
| Toluene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1,1-Trichloroethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,1,2-Trichloroethane | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Trichloroethene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Trichlorofluoromethane | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2,3-Trichloropropane | EPA 8260B | P0G1213 | 10 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P0G1213 | 2.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Vinyl acetate | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Vinyl chloride | EPA 8260B | P0G1213 | 5.0 | ND | 1 | 7/12/00 | 7/12/00 | |
| Xylenes, Total | EPA 8260B | P0G1213 | 10 | ND | 1 | 7/12/00 | 7/12/00 | |
| *Surrogate: Dibromofluoromethane (70-160%)* | | | | *97.2 %* | | | | |
| *Surrogate: Toluene-d8 (75-140%)* | | | | *88.8 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (75-135%)* | | | | *94.0 %* | | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150
Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0053-07 (Trip Blank - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P0G1303 | 20 | ND | 1 | 7/13/00 | 7/13/00 | |
| Benzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Bromobenzene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Bromochloromethane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Bromodichloromethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Bromoform | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Bromomethane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 2-Butanone (MEK) | EPA 8260B | P0G1303 | 10 | ND | 1 | 7/13/00 | 7/13/00 | |
| n-Butylbenzene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| sec-Butylbenzene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| tert-Butylbenzene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Carbon Disulfide | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Carbon tetrachloride | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Chlorobenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Chloroethane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Chloroform | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Chloromethane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | L3 |
| 2-Chlorotoluene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 4-Chlorotoluene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Dibromochloromethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Dibromomethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2-Dichlorobenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,3-Dichlorobenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,4-Dichlorobenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Dichlorodifluoromethane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,1-Dichloroethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2-Dichloroethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,1-Dichloroethene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| cis-1,2-Dichloroethene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| trans-1,2-Dichloroethene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2-Dichloropropane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,3-Dichloropropane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 2,2-Dichloropropane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,1-Dichloropropene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| cis-1,3-Dichloropropene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| trans-1,3-Dichloropropene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Ethylbenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Hexachlorobutadiene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 2-Hexanone | EPA 8260B | P0G1303 | 10 | ND | 1 | 7/13/00 | 7/13/00 | |
| Iodomethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Isopropylbenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150
Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0053-07 (Trip Blank - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Methylene chloride | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 4-Methyl-2-pentatnone (MIBK) | EPA 8260B | P0G1303 | 10 | ND | 1 | 7/13/00 | 7/13/00 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Naphthalene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| n-Propylbenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Styrene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Tetrachloroethene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Toluene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,1,1-Trichloroethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,1,2-Trichloroethane | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Trichloroethene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Trichlorofluoromethane | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2,3-Trichloropropane | EPA 8260B | P0G1303 | 10 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P0G1303 | 2.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Vinyl acetate | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Vinyl chloride | EPA 8260B | P0G1303 | 5.0 | ND | 1 | 7/13/00 | 7/13/00 | |
| Xylenes, Total | EPA 8260B | P0G1303 | 10 | ND | 1 | 7/13/00 | 7/13/00 | |
| *Surrogate: Dibromofluoromethane (70-160%)* | | | | *97.2 %* | | | | |
| *Surrogate: Toluene-d8 (75-140%)* | | | | *100 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (75-135%)* | | | | *93.6 %* | | | | |

**DEL MAR ANALYTICAL, PHOENIX (AZ0426)**

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150
Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

## ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0053-01 (MW-1S - Water)** | | | | | | | | |
| Acenaphthene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Acenaphthylene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Anthracene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Benzidine | EPA 625 | P0G1012 | 100 | ND | 1 | 7/10/00 | 7/20/00 | |
| Benz(a)anthracene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Benzo(b,k)fluoranthene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Benzo(g,h,i)perylene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| Benzo(a)pyrene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| Bis(2-chloroethoxy)methane | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Bis(2-chloroethyl)ether | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Bis(2-chloroisopropyl)ether | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Bis(2-ethylhexyl)phthalate | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| 4-Bromophenyl phenyl ether | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| Butyl benzyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2-Chloronaphthalene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 4-Chloro-3-methylphenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2-Chlorophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 4-Chlorophenyl phenyl ether | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Chrysene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Dibenz(a,h)anthracene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| Di-n-butyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 1,3-Dichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 1,4-Dichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 1,2-Dichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 3,3-Dichlorobenzidine | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2,4-Dichlorophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Diethyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2,4-Dimethylphenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Dimethyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 4,6-Dinitro-2-methylphenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2,4-Dinitrophenol | EPA 625 | P0G1012 | 30 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2,4-Dinitrotoluene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2,6-Dinitrotoluene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Di-n-octyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 1,2-Diphenylhydrazine | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Fluoranthene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Fluorene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Hexachlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Hexachlorobutadiene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| Hexachlorocyclopentadiene | EPA 625 | P0G1012 | 30 | ND | 1 | 7/10/00 | 7/20/00 | |
| Hexachloroethane | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Indeno(1,2,3-cd)pyrene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| Isophorone | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150
Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

## ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0053-01 (MW-1S - Water)** | | | | | | | | |
| Naphthalene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Nitrobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2-Nitrophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 4-Nitrophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| n-Nitrosodiphenylamine | EPA 625 | P0G1012 | 30 | ND | 1 | 7/10/00 | 7/20/00 | |
| n-Nitroso-di-n-propylamine | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Pentachlorophenol | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| Phenanthrene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Phenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Pyrene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 1,2,4-Trichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2,4,6-Trichlorophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| n-Nitrosodimethylamine | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| *Surrogate: 2-Fluorophenol (21-100%)* | | | | *90.8 %* | | | | |
| *Surrogate: Phenol-d6 (10-94%)* | | | | *88.9 %* | | | | |
| *Surrogate: 2,4,6-Tribromophenol (10-123%)* | | | | *93.9 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (35-114%)* | | | | *99.4 %* | | | | |
| *Surrogate: 2-Fluorobiphenyl (43-116%)* | | | | *74.2 %* | | | | |
| *Surrogate: Terphenyl-d14 (33-141%)* | | | | *108 %* | | | | |
| **Sample ID: PJG0053-02 (MW-1D - Water)** | | | | | | | | |
| Acenaphthene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Acenaphthylene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Anthracene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Benzidine | EPA 625 | P0G1012 | 100 | ND | 1 | 7/10/00 | 7/20/00 | |
| Benz(a)anthracene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Benzo(b,k)fluoranthene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Benzo(g,h,i)perylene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| Benzo(a)pyrene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| Bis(2-chloroethoxy)methane | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Bis(2-chloroethyl)ether | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Bis(2-chloroisopropyl)ether | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Bis(2-ethylhexyl)phthalate | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| 4-Bromophenyl phenyl ether | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| Butyl benzyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2-Chloronaphthalene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 4-Chloro-3-methylphenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2-Chlorophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 4-Chlorophenyl phenyl ether | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Chrysene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Dibenz(a,h)anthracene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| Di-n-butyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 1,3-Dichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150
Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

## ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0053-02 (MW-1D - Water)** | | | | | | | | |
| 1,4-Dichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 1,2-Dichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 3,3-Dichlorobenzidine | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2,4-Dichlorophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Diethyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2,4-Dimethylphenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Dimethyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 4,6-Dinitro-2-methylphenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2,4-Dinitrophenol | EPA 625 | P0G1012 | 30 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2,4-Dinitrotoluene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2,6-Dinitrotoluene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Di-n-octyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 1,2-Diphenylhydrazine | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Fluoranthene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Fluorene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Hexachlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Hexachlorobutadiene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| Hexachlorocyclopentadiene | EPA 625 | P0G1012 | 30 | ND | 1 | 7/10/00 | 7/20/00 | |
| Hexachloroethane | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Indeno(1,2,3-cd)pyrene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| Isophorone | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Naphthalene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Nitrobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2-Nitrophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 4-Nitrophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| n-Nitrosodiphenylamine | EPA 625 | P0G1012 | 30 | ND | 1 | 7/10/00 | 7/20/00 | |
| n-Nitroso-di-n-propylamine | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Pentachlorophenol | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| Phenanthrene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Phenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Pyrene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 1,2,4-Trichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2,4,6-Trichlorophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| n-Nitrosodimethylamine | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| *Surrogate: 2-Fluorophenol (21-100%)* | | | | *70.0 %* | | | | |
| *Surrogate: Phenol-d6 (10-94%)* | | | | *76.2 %* | | | | |
| *Surrogate: 2,4,6-Tribromophenol (10-123%)* | | | | *87.2 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (35-114%)* | | | | *79.4 %* | | | | |
| *Surrogate: 2-Fluorobiphenyl (43-116%)* | | | | *66.0 %* | | | | |
| *Surrogate: Terphenyl-d14 (33-141%)* | | | | *100 %* | | | | |

Julie M. Slocum
Project Manager



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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150

Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

## ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0053-03 (MW-5S - Water)** | | | | | | | | |
| Acenaphthene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Acenaphthylene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Anthracene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Benzidine | EPA 625 | P0G1012 | 100 | ND | 1 | 7/10/00 | 7/20/00 | |
| Benz(a)anthracene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Benzo(b,k)fluoranthene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Benzo(g,h,i)perylene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| Benzo(a)pyrene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| Bis(2-chloroethoxy)methane | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Bis(2-chloroethyl)ether | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Bis(2-chloroisopropyl)ether | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Bis(2-ethylhexyl)phthalate | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| 4-Bromophenyl phenyl ether | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| Butyl benzyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2-Chloronaphthalene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 4-Chloro-3-methylphenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2-Chlorophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 4-Chlorophenyl phenyl ether | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Chrysene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Dibenz(a,h)anthracene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| Di-n-butyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 1,3-Dichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 1,4-Dichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 1,2-Dichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 3,3-Dichlorobenzidine | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2,4-Dichlorophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Diethyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2,4-Dimethylphenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Dimethyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 4,6-Dinitro-2-methylphenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2,4-Dinitrophenol | EPA 625 | P0G1012 | 30 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2,4-Dinitrotoluene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2,6-Dinitrotoluene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Di-n-octyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 1,2-Diphenylhydrazine | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Fluoranthene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Fluorene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Hexachlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Hexachlorobutadiene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| Hexachlorocyclopentadiene | EPA 625 | P0G1012 | 30 | ND | 1 | 7/10/00 | 7/20/00 | |
| Hexachloroethane | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Indeno(1,2,3-cd)pyrene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| Isophorone | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |

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Attention: Jim Clarke

Client Project ID: 70211-0-0150
Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

## ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0053-03 (MW-5S - Water)** | | | | | | | | |
| Naphthalene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Nitrobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2-Nitrophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 4-Nitrophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| n-Nitrosodiphenylamine | EPA 625 | P0G1012 | 30 | ND | 1 | 7/10/00 | 7/20/00 | |
| n-Nitroso-di-n-propylamine | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Pentachlorophenol | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| Phenanthrene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Phenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Pyrene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 1,2,4-Trichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2,4,6-Trichlorophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| n-Nitrosodimethylamine | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| *Surrogate: 2-Fluorophenol (21-100%)* | | | | *90.6 %* | | | | |
| *Surrogate: Phenol-d6 (10-94%)* | | | | *90.6 %* | | | | |
| *Surrogate: 2,4,6-Tribromophenol (10-123%)* | | | | *98.2 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (35-114%)* | | | | *100 %* | | | | |
| *Surrogate: 2-Fluorobiphenyl (43-116%)* | | | | *78.2 %* | | | | |
| *Surrogate: Terphenyl-d14 (33-141%)* | | | | *95.4 %* | | | | |
| **Sample ID: PJG0053-04 (MW-5D - Water)** | | | | | | | | |
| Acenaphthene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Acenaphthylene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Anthracene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Benzidine | EPA 625 | P0G1012 | 100 | ND | 1 | 7/10/00 | 7/20/00 | |
| Benz(a)anthracene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Benzo(b,k)fluoranthene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Benzo(g,h,i)perylene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| Benzo(a)pyrene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| Bis(2-chloroethoxy)methane | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Bis(2-chloroethyl)ether | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Bis(2-chloroisopropyl)ether | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Bis(2-ethylhexyl)phthalate | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| 4-Bromophenyl phenyl ether | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| Butyl benzyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2-Chloronaphthalene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 4-Chloro-3-methylphenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2-Chlorophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 4-Chlorophenyl phenyl ether | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Chrysene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Dibenz(a,h)anthracene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| Di-n-butyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 1,3-Dichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150

Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

## ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0053-04 (MW-5D - Water)** | | | | | | | | |
| 1,4-Dichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 1,2-Dichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 3,3-Dichlorobenzidine | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2,4-Dichlorophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Diethyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2,4-Dimethylphenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Dimethyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 4,6-Dinitro-2-methylphenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2,4-Dinitrophenol | EPA 625 | P0G1012 | 30 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2,4-Dinitrotoluene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2,6-Dinitrotoluene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Di-n-octyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 1,2-Diphenylhydrazine | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Fluoranthene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Fluorene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Hexachlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Hexachlorobutadiene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| Hexachlorocyclopentadiene | EPA 625 | P0G1012 | 30 | ND | 1 | 7/10/00 | 7/20/00 | |
| Hexachloroethane | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Indeno(1,2,3-cd)pyrene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| Isophorone | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Naphthalene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Nitrobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2-Nitrophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 4-Nitrophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| n-Nitrosodiphenylamine | EPA 625 | P0G1012 | 30 | ND | 1 | 7/10/00 | 7/20/00 | |
| n-Nitroso-di-n-propylamine | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Pentachlorophenol | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| Phenanthrene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Phenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Pyrene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 1,2,4-Trichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2,4,6-Trichlorophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| n-Nitrosodimethylamine | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| *Surrogate: 2-Fluorophenol (21-100%)* | | | | *92.6 %* | | | | |
| *Surrogate: Phenol-d6 (10-94%)* | | | | *95.8 %* | | | | *Z2* |
| *Surrogate: 2,4,6-Tribromophenol (10-123%)* | | | | *95.0 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (35-114%)* | | | | *106 %* | | | | |
| *Surrogate: 2-Fluorobiphenyl (43-116%)* | | | | *81.6 %* | | | | |
| *Surrogate: Terphenyl-d14 (33-141%)* | | | | *91.2 %* | | | | |

Julie M. Slocum
Project Manager



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4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150
Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

## ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0053-05 (MW-10D - Water)** | | | | | | | | |
| Acenaphthene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Acenaphthylene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Anthracene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Benzidine | EPA 625 | P0G1012 | 100 | ND | 1 | 7/10/00 | 7/22/00 | C2 |
| Benz(a)anthracene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Benzo(b,k)fluoranthene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Benzo(g,h,i)perylene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/22/00 | |
| Benzo(a)pyrene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/22/00 | |
| Bis(2-chloroethoxy)methane | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Bis(2-chloroethyl)ether | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Bis(2-chloroisopropyl)ether | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Bis(2-ethylhexyl)phthalate | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/22/00 | |
| 4-Bromophenyl phenyl ether | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/22/00 | |
| Butyl benzyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 2-Chloronaphthalene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 4-Chloro-3-methylphenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 2-Chlorophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 4-Chlorophenyl phenyl ether | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Chrysene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Dibenz(a,h)anthracene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/22/00 | |
| Di-n-butyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 1,3-Dichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 1,4-Dichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 1,2-Dichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 3,3-Dichlorobenzidine | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/22/00 | |
| 2,4-Dichlorophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Diethyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 2,4-Dimethylphenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Dimethyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 4,6-Dinitro-2-methylphenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 2,4-Dinitrophenol | EPA 625 | P0G1012 | 30 | ND | 1 | 7/10/00 | 7/22/00 | |
| 2,4-Dinitrotoluene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 2,6-Dinitrotoluene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Di-n-octyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 1,2-Diphenylhydrazine | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Fluoranthene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Fluorene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Hexachlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Hexachlorobutadiene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/22/00 | |
| Hexachlorocyclopentadiene | EPA 625 | P0G1012 | 30 | ND | 1 | 7/10/00 | 7/22/00 | |
| Hexachloroethane | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Indeno(1,2,3-cd)pyrene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/22/00 | |
| Isophorone | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |

Julie M. Slocum
Project Manager



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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150
Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

## ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0053-05 (MW-10D - Water)** | | | | | | | | |
| Naphthalene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Nitrobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 2-Nitrophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 4-Nitrophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| n-Nitrosodiphenylamine | EPA 625 | P0G1012 | 30 | ND | 1 | 7/10/00 | 7/22/00 | |
| n-Nitroso-di-n-propylamine | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Pentachlorophenol | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/22/00 | |
| Phenanthrene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Phenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| Pyrene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 1,2,4-Trichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| 2,4,6-Trichlorophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| n-Nitrosodimethylamine | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/22/00 | |
| *Surrogate: 2-Fluorophenol (21-100%)* | | | | *81.7 %* | | | | |
| *Surrogate: Phenol-d6 (10-94%)* | | | | *93.9 %* | | | | |
| *Surrogate: 2,4,6-Tribromophenol (10-123%)* | | | | *90.3 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (35-114%)* | | | | *97.6 %* | | | | |
| *Surrogate: 2-Fluorobiphenyl (43-116%)* | | | | *77.2 %* | | | | |
| *Surrogate: Terphenyl-d14 (33-141%)* | | | | *99.6 %* | | | | |
| **Sample ID: PJG0053-06 (SRP 28E-ON - Water)** | | | | | | | | |
| Acenaphthene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Acenaphthylene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Anthracene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Benzidine | EPA 625 | P0G1012 | 100 | ND | 1 | 7/10/00 | 7/20/00 | |
| Benz(a)anthracene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Benzo(b,k)fluoranthene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Benzo(g,h,i)perylene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| Benzo(a)pyrene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| Bis(2-chloroethoxy)methane | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Bis(2-chloroethyl)ether | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Bis(2-chloroisopropyl)ether | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Bis(2-ethylhexyl)phthalate | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| 4-Bromophenyl phenyl ether | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| Butyl benzyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2-Chloronaphthalene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 4-Chloro-3-methylphenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2-Chlorophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 4-Chlorophenyl phenyl ether | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Chrysene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Dibenz(a,h)anthracene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| Di-n-butyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 1,3-Dichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |

Julie M. Slocum
Project Manager



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Client Project ID: 70211-0-0150
Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

## ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PJG0053-06 (SRP 28E-ON - Water)** | | | | | | | | |
| 1,4-Dichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 1,2-Dichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 3,3-Dichlorobenzidine | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2,4-Dichlorophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Diethyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2,4-Dimethylphenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Dimethyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 4,6-Dinitro-2-methylphenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2,4-Dinitrophenol | EPA 625 | P0G1012 | 30 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2,4-Dinitrotoluene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2,6-Dinitrotoluene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Di-n-octyl phthalate | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 1,2-Diphenylhydrazine | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Fluoranthene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Fluorene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Hexachlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Hexachlorobutadiene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| Hexachlorocyclopentadiene | EPA 625 | P0G1012 | 30 | ND | 1 | 7/10/00 | 7/20/00 | |
| Hexachloroethane | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Indeno(1,2,3-cd)pyrene | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| Isophorone | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Naphthalene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Nitrobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2-Nitrophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 4-Nitrophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| n-Nitrosodiphenylamine | EPA 625 | P0G1012 | 30 | ND | 1 | 7/10/00 | 7/20/00 | |
| n-Nitroso-di-n-propylamine | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Pentachlorophenol | EPA 625 | P0G1012 | 20 | ND | 1 | 7/10/00 | 7/20/00 | |
| Phenanthrene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Phenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| Pyrene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 1,2,4-Trichlorobenzene | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| 2,4,6-Trichlorophenol | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| n-Nitrosodimethylamine | EPA 625 | P0G1012 | 10 | ND | 1 | 7/10/00 | 7/20/00 | |
| *Surrogate: 2-Fluorophenol (21-100%)* | | | | *79.8 %* | | | | |
| *Surrogate: Phenol-d6 (10-94%)* | | | | *85.5 %* | | | | |
| *Surrogate: 2,4,6-Tribromophenol (10-123%)* | | | | *90.1 %* | | | | |
| *Surrogate: Nitrobenzene-d5 (35-114%)* | | | | *95.0 %* | | | | |
| *Surrogate: 2-Fluorobiphenyl (43-116%)* | | | | *71.4 %* | | | | |
| *Surrogate: Terphenyl-d14 (33-141%)* | | | | *97.8 %* | | | | |

**DEL MAR ANALYTICAL, PHOENIX (AZ0426)**

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150
Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

## TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | mg/l | mg/l | | | | |
| **Sample ID: PJG0053-01 (MW-1S - Water)** | | | | | | | | |
| Aluminum | EPA 200.7 | P0G1113 | 0.50 | ND | 1 | 7/11/00 | 7/12/00 | |
| Antimony | EPA 200.9 | P0G1023 | 0.0040 | ND | 1 | 7/10/00 | 7/13/00 | |
| **Arsenic** | EPA 200.9 | P0G1023 | 0.0030 | **0.0050** | 1 | 7/10/00 | 7/12/00 | |
| **Barium** | EPA 200.7 | P0G1113 | 0.010 | **0.079** | 1 | 7/11/00 | 7/12/00 | |
| Beryllium | EPA 200.9 | P0G1023 | 0.00050 | ND | 1 | 7/10/00 | 7/13/00 | |
| Cadmium | EPA 200.9 | P0G1023 | 0.00050 | ND | 1 | 7/10/00 | 7/13/00 | |
| **Calcium** | EPA 200.7 | P0G1113 | 2.0 | **130** | 1 | 7/11/00 | 7/12/00 | |
| **Chromium** | EPA 200.9 | P0G1023 | 0.020 | **0.067** | 5 | 7/10/00 | 7/17/00 | S |
| Cobalt | EPA 200.7 | P0G1113 | 0.050 | ND | 1 | 7/11/00 | 7/12/00 | |
| Copper | EPA 200.7 | P0G1113 | 0.020 | ND | 1 | 7/11/00 | 7/12/00 | |
| **Iron** | EPA 200.7 | P0G1113 | 0.10 | **0.92** | 1 | 7/11/00 | 7/12/00 | |
| Lead | EPA 200.7 | P0G1113 | 0.050 | ND | 1 | 7/11/00 | 7/12/00 | |
| **Magnesium** | EPA 200.7 | P0G1113 | 0.50 | **44** | 1 | 7/11/00 | 7/13/00 | |
| **Manganese** | EPA 200.7 | P0G1113 | 0.020 | **0.025** | 1 | 7/11/00 | 7/12/00 | |
| Nickel | EPA 200.7 | P0G1113 | 0.050 | ND | 1 | 7/11/00 | 7/12/00 | |
| Selenium | EPA 200.9 | P0G1023 | 0.0040 | ND | 1 | 7/10/00 | 7/12/00 | |
| Silver | EPA 200.7 | P0G1113 | 0.0050 | ND | 1 | 7/11/00 | 7/12/00 | |
| **Sodium** | EPA 273.1 | P0G1113 | 5.0 | **450** | 1 | 7/11/00 | 7/14/00 | |
| **Strontium** | EPA 200.7 | P0G1113 | 0.50 | **1.1** | 5 | 7/11/00 | 7/13/00 | |
| Vanadium | EPA 200.7 | P0G1113 | 0.050 | ND | 1 | 7/11/00 | 7/12/00 | |
| Zinc | EPA 200.7 | P0G1113 | 0.050 | ND | 1 | 7/11/00 | 7/13/00 | |
| **Sample ID: PJG0053-02 (MW-1D - Water)** | | | | | | | | |
| Aluminum | EPA 200.7 | P0G1113 | 0.50 | ND | 1 | 7/11/00 | 7/12/00 | |
| Antimony | EPA 200.9 | P0G1023 | 0.0040 | ND | 1 | 7/10/00 | 7/13/00 | |
| **Arsenic** | EPA 200.9 | P0G1023 | 0.0030 | **0.0053** | 1 | 7/10/00 | 7/12/00 | |
| **Barium** | EPA 200.7 | P0G1113 | 0.010 | **0.093** | 1 | 7/11/00 | 7/12/00 | |
| Beryllium | EPA 200.9 | P0G1023 | 0.00050 | ND | 1 | 7/10/00 | 7/13/00 | C |
| Cadmium | EPA 200.9 | P0G1023 | 0.00050 | ND | 1 | 7/10/00 | 7/13/00 | C |
| **Calcium** | EPA 200.7 | P0G1113 | 2.0 | **190** | 1 | 7/11/00 | 7/12/00 | |
| **Chromium** | EPA 200.9 | P0G1023 | 0.0080 | **0.013** | 2 | 7/10/00 | 7/18/00 | S |
| Cobalt | EPA 200.7 | P0G1113 | 0.050 | ND | 1 | 7/11/00 | 7/12/00 | |
| Copper | EPA 200.7 | P0G1113 | 0.020 | ND | 1 | 7/11/00 | 7/12/00 | |
| **Iron** | EPA 200.7 | P0G1113 | 0.10 | **2.2** | 1 | 7/11/00 | 7/12/00 | |
| Lead | EPA 200.7 | P0G1113 | 0.050 | ND | 1 | 7/11/00 | 7/12/00 | |
| **Magnesium** | EPA 200.7 | P0G1113 | 0.50 | **63** | 1 | 7/11/00 | 7/13/00 | |
| **Manganese** | EPA 200.7 | P0G1113 | 0.020 | **0.044** | 1 | 7/11/00 | 7/12/00 | |
| Nickel | EPA 200.7 | P0G1113 | 0.050 | ND | 1 | 7/11/00 | 7/12/00 | |
| Selenium | EPA 200.9 | P0G1023 | 0.0040 | ND | 1 | 7/10/00 | 7/12/00 | |
| Silver | EPA 200.7 | P0G1113 | 0.0050 | ND | 1 | 7/11/00 | 7/12/00 | |
| **Sodium** | EPA 273.1 | P0G1113 | 5.0 | **400** | 1 | 7/11/00 | 7/14/00 | |
| **Strontium** | EPA 200.7 | P0G1113 | 1.0 | **1.7** | 10 | 7/11/00 | 7/13/00 | |
| Vanadium | EPA 200.7 | P0G1113 | 0.050 | ND | 1 | 7/11/00 | 7/12/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150
Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

## TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | mg/l | mg/l | | | | |
| **Sample ID: PJG0053-02 (MW-1D - Water)** | | | | | | | | |
| Zinc | EPA 200.7 | P0G1113 | 0.050 | ND | 1 | 7/11/00 | 7/13/00 | |
| **Sample ID: PJG0053-03 (MW-5S - Water)** | | | | | | | | |
| Aluminum | EPA 200.7 | P0G1113 | 0.50 | ND | 1 | 7/11/00 | 7/12/00 | |
| Antimony | EPA 200.9 | P0G1023 | 0.0040 | ND | 1 | 7/10/00 | 7/13/00 | |
| **Arsenic** | EPA 200.9 | P0G1023 | 0.0030 | **0.0040** | 1 | 7/10/00 | 7/12/00 | |
| **Barium** | EPA 200.7 | P0G1113 | 0.010 | **0.070** | 1 | 7/11/00 | 7/12/00 | |
| Beryllium | EPA 200.9 | P0G1023 | 0.00050 | ND | 1 | 7/10/00 | 7/13/00 | C |
| Cadmium | EPA 200.9 | P0G1023 | 0.00050 | ND | 1 | 7/10/00 | 7/13/00 | C |
| **Calcium** | EPA 200.7 | P0G1113 | 2.0 | **120** | 1 | 7/11/00 | 7/12/00 | |
| **Chromium** | EPA 200.9 | P0G1803 | 0.0040 | **0.0072** | 1 | 7/18/00 | 7/18/00 | |
| Cobalt | EPA 200.7 | P0G1113 | 0.050 | ND | 1 | 7/11/00 | 7/12/00 | |
| Copper | EPA 200.7 | P0G1113 | 0.020 | ND | 1 | 7/11/00 | 7/12/00 | |
| **Iron** | EPA 200.7 | P0G1113 | 0.10 | **0.16** | 1 | 7/11/00 | 7/12/00 | |
| Lead | EPA 200.7 | P0G1113 | 0.050 | ND | 1 | 7/11/00 | 7/12/00 | |
| **Magnesium** | EPA 200.7 | P0G1113 | 0.50 | **42** | 1 | 7/11/00 | 7/13/00 | |
| Manganese | EPA 200.7 | P0G1113 | 0.020 | ND | 1 | 7/11/00 | 7/12/00 | |
| Nickel | EPA 200.7 | P0G1113 | 0.050 | ND | 1 | 7/11/00 | 7/12/00 | |
| Selenium | EPA 200.9 | P0G1023 | 0.0040 | ND | 1 | 7/10/00 | 7/12/00 | |
| Silver | EPA 200.7 | P0G1113 | 0.0050 | ND | 1 | 7/11/00 | 7/12/00 | |
| **Sodium** | EPA 273.1 | P0G1113 | 5.0 | **380** | 1 | 7/11/00 | 7/14/00 | |
| **Strontium** | EPA 200.7 | P0G1113 | 1.0 | **1.1** | 10 | 7/11/00 | 7/13/00 | |
| Vanadium | EPA 200.7 | P0G1113 | 0.050 | ND | 1 | 7/11/00 | 7/12/00 | |
| Zinc | EPA 200.7 | P0G1113 | 0.050 | ND | 1 | 7/11/00 | 7/13/00 | |

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Attention: Jim Clarke

Client Project ID: 70211-0-0150
Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

## TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | mg/l | mg/l | | | | |
| **Sample ID: PJG0053-04 (MW-5D - Water)** | | | | | | | | |
| **Aluminum** | EPA 200.7 | P0G1113 | 0.50 | **1.1** | 1 | 7/11/00 | 7/17/00 | |
| Antimony | EPA 200.9 | P0G1023 | 0.0040 | ND | 1 | 7/10/00 | 7/13/00 | |
| **Arsenic** | EPA 200.9 | P0G1023 | 0.0060 | **0.0062** | 2 | 7/10/00 | 7/12/00 | |
| **Barium** | EPA 200.7 | P0G1113 | 0.010 | **0.13** | 1 | 7/11/00 | 7/12/00 | |
| Beryllium | EPA 200.9 | P0G1023 | 0.00050 | ND | 1 | 7/10/00 | 7/13/00 | C |
| Cadmium | EPA 200.9 | P0G1023 | 0.00050 | ND | 1 | 7/10/00 | 7/13/00 | C |
| **Calcium** | EPA 200.7 | P0G1113 | 2.0 | **200** | 1 | 7/11/00 | 7/12/00 | |
| **Chromium** | EPA 200.9 | P0G1023 | 0.016 | **0.032** | 4 | 7/10/00 | 7/18/00 | S |
| Cobalt | EPA 200.7 | P0G1113 | 0.050 | ND | 1 | 7/11/00 | 7/12/00 | |
| Copper | EPA 200.7 | P0G1113 | 0.020 | ND | 1 | 7/11/00 | 7/12/00 | |
| **Iron** | EPA 200.7 | P0G1113 | 0.10 | **1.1** | 1 | 7/11/00 | 7/12/00 | |
| Lead | EPA 200.7 | P0G1113 | 0.050 | ND | 1 | 7/11/00 | 7/12/00 | |
| **Magnesium** | EPA 200.7 | P0G1113 | 0.50 | **72** | 1 | 7/11/00 | 7/13/00 | |
| Manganese | EPA 200.7 | P0G1113 | 0.020 | ND | 1 | 7/11/00 | 7/12/00 | |
| Nickel | EPA 200.7 | P0G1113 | 0.050 | ND | 1 | 7/11/00 | 7/12/00 | |
| Selenium | EPA 200.9 | P0G1023 | 0.0040 | ND | 1 | 7/10/00 | 7/12/00 | |
| Silver | EPA 200.7 | P0G1113 | 0.0050 | ND | 1 | 7/11/00 | 7/12/00 | |
| **Sodium** | EPA 273.1 | P0G1113 | 5.0 | **450** | 1 | 7/11/00 | 7/14/00 | |
| **Strontium** | EPA 200.7 | P0G1113 | 1.0 | **1.9** | 10 | 7/11/00 | 7/13/00 | |
| Vanadium | EPA 200.7 | P0G1113 | 0.050 | ND | 1 | 7/11/00 | 7/12/00 | |
| Zinc | EPA 200.7 | P0G1113 | 0.050 | ND | 1 | 7/11/00 | 7/13/00 | |
| **Sample ID: PJG0053-05 (MW-10D - Water)** | | | | | | | | |
| **Aluminum** | EPA 200.7 | P0G1113 | 0.50 | **1.2** | 1 | 7/11/00 | 7/17/00 | |
| Antimony | EPA 200.9 | P0G1023 | 0.0040 | ND | 1 | 7/10/00 | 7/13/00 | |
| Arsenic | EPA 200.9 | P0G1023 | 0.0030 | ND | 1 | 7/10/00 | 7/12/00 | |
| **Barium** | EPA 200.7 | P0G1113 | 0.010 | **0.12** | 1 | 7/11/00 | 7/12/00 | |
| Beryllium | EPA 200.9 | P0G1023 | 0.00050 | ND | 1 | 7/10/00 | 7/13/00 | C |
| Cadmium | EPA 200.9 | P0G1023 | 0.00050 | ND | 1 | 7/10/00 | 7/13/00 | C |
| **Calcium** | EPA 200.7 | P0G1113 | 2.0 | **200** | 1 | 7/11/00 | 7/12/00 | |
| **Chromium** | EPA 200.9 | P0G1023 | 0.016 | **0.040** | 4 | 7/10/00 | 7/18/00 | S |
| Cobalt | EPA 200.7 | P0G1113 | 0.050 | ND | 1 | 7/11/00 | 7/12/00 | |
| Copper | EPA 200.7 | P0G1113 | 0.020 | ND | 1 | 7/11/00 | 7/12/00 | |
| **Iron** | EPA 200.7 | P0G1113 | 0.10 | **1.2** | 1 | 7/11/00 | 7/12/00 | |
| Lead | EPA 200.7 | P0G1113 | 0.050 | ND | 1 | 7/11/00 | 7/12/00 | |
| **Magnesium** | EPA 200.7 | P0G1113 | 0.50 | **70** | 1 | 7/11/00 | 7/13/00 | |
| Manganese | EPA 200.7 | P0G1113 | 0.020 | ND | 1 | 7/11/00 | 7/12/00 | |
| Nickel | EPA 200.7 | P0G1113 | 0.050 | ND | 1 | 7/11/00 | 7/12/00 | |
| Selenium | EPA 200.9 | P0G1023 | 0.0040 | ND | 1 | 7/10/00 | 7/12/00 | |
| Silver | EPA 200.7 | P0G1113 | 0.0050 | ND | 1 | 7/11/00 | 7/12/00 | |
| **Sodium** | EPA 273.1 | P0G1113 | 5.0 | **440** | 1 | 7/11/00 | 7/14/00 | |
| **Strontium** | EPA 200.7 | P0G1113 | 1.0 | **2.0** | 10 | 7/11/00 | 7/13/00 | |
| Vanadium | EPA 200.7 | P0G1113 | 0.050 | ND | 1 | 7/11/00 | 7/12/00 | |

Julie M. Slocum
Project Manager



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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150

Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

## TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | mg/l | mg/l | | | | |
| **Sample ID: PJG0053-05 (MW-10D - Water)** | | | | | | | | |
| Zinc | EPA 200.7 | P0G1113 | 0.050 | ND | 1 | 7/11/00 | 7/13/00 | |
| **Sample ID: PJG0053-06 (SRP 28E-ON - Water)** | | | | | | | | |
| Aluminum | EPA 200.7 | P0G1113 | 0.50 | ND | 1 | 7/11/00 | 7/12/00 | |
| Antimony | EPA 200.9 | P0G1023 | 0.0040 | ND | 1 | 7/10/00 | 7/13/00 | |
| **Arsenic** | EPA 200.9 | P0G1023 | 0.0030 | **0.0040** | 1 | 7/10/00 | 7/12/00 | |
| **Barium** | EPA 200.7 | P0G1113 | 0.010 | **0.097** | 1 | 7/11/00 | 7/12/00 | |
| Beryllium | EPA 200.9 | P0G1023 | 0.00050 | ND | 1 | 7/10/00 | 7/13/00 | C |
| Cadmium | EPA 200.9 | P0G1023 | 0.00050 | ND | 1 | 7/10/00 | 7/13/00 | C |
| **Calcium** | EPA 200.7 | P0G1113 | 2.0 | **130** | 1 | 7/11/00 | 7/12/00 | |
| Chromium | EPA 200.9 | P0G1023 | 0.0040 | ND | 1 | 7/10/00 | 7/14/00 | |
| Cobalt | EPA 200.7 | P0G1113 | 0.050 | ND | 1 | 7/11/00 | 7/12/00 | |
| Copper | EPA 200.7 | P0G1113 | 0.020 | ND | 1 | 7/11/00 | 7/12/00 | |
| Iron | EPA 200.7 | P0G1113 | 0.10 | ND | 1 | 7/11/00 | 7/12/00 | |
| Lead | EPA 200.7 | P0G1113 | 0.050 | ND | 1 | 7/11/00 | 7/12/00 | |
| **Magnesium** | EPA 200.7 | P0G1113 | 0.50 | **47** | 1 | 7/11/00 | 7/13/00 | |
| Manganese | EPA 200.7 | P0G1113 | 0.020 | ND | 1 | 7/11/00 | 7/12/00 | |
| Nickel | EPA 200.7 | P0G1113 | 0.050 | ND | 1 | 7/11/00 | 7/12/00 | |
| Selenium | EPA 200.9 | P0G1023 | 0.0040 | ND | 1 | 7/10/00 | 7/12/00 | |
| Silver | EPA 200.7 | P0G1113 | 0.0050 | ND | 1 | 7/11/00 | 7/12/00 | |
| **Sodium** | EPA 273.1 | P0G1113 | 5.0 | **460** | 1 | 7/11/00 | 7/14/00 | |
| **Strontium** | EPA 200.7 | P0G1113 | 0.50 | **1.2** | 5 | 7/11/00 | 7/13/00 | |
| Vanadium | EPA 200.7 | P0G1113 | 0.050 | ND | 1 | 7/11/00 | 7/12/00 | |
| Zinc | EPA 200.7 | P0G1113 | 0.050 | ND | 1 | 7/11/00 | 7/13/00 | |

**DEL MAR ANALYTICAL, PHOENIX (AZ0426)**

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150

Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1213 Extracted: 07/12/00** | | | | | | | | | | |
| **Blank Analyzed: 07/12/00 (P0G1213-BLK1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | |
| Benzene | ND | 2.0 | ug/l | | | | | | | |
| Bromobenzene | ND | 5.0 | ug/l | | | | | | | |
| Bromochloromethane | ND | 5.0 | ug/l | | | | | | | |
| Bromodichloromethane | ND | 2.0 | ug/l | | | | | | | |
| Bromoform | ND | 5.0 | ug/l | | | | | | | |
| Bromomethane | ND | 5.0 | ug/l | | | | | | | |
| 2-Butanone (MEK) | ND | 10 | ug/l | | | | | | | |
| n-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| sec-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| tert-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| Carbon Disulfide | ND | 5.0 | ug/l | | | | | | | |
| Carbon tetrachloride | ND | 5.0 | ug/l | | | | | | | |
| Chlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| Chloroethane | ND | 5.0 | ug/l | | | | | | | |
| Chloroform | ND | 2.0 | ug/l | | | | | | | |
| Chloromethane | ND | 5.0 | ug/l | | | | | | | |
| 2-Chlorotoluene | ND | 5.0 | ug/l | | | | | | | |
| 4-Chlorotoluene | ND | 5.0 | ug/l | | | | | | | |
| Dibromochloromethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/l | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 2.0 | ug/l | | | | | | | |
| Dibromomethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| Dichlorodifluoromethane | ND | 5.0 | ug/l | | | | | | | |
| 1,1-Dichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,1-Dichloroethene | ND | 5.0 | ug/l | | | | | | | |

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Attention: Jim Clarke

Client Project ID: 70211-0-0150
Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1213 Extracted: 07/12/00** | | | | | | | | | | |
| **Blank Analyzed: 07/12/00 (P0G1213-BLK1)** | | | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 2.0 | ug/l | | | | | | | |
| trans-1,2-Dichloroethene | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,3-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 2,2-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,1-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| cis-1,3-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| Ethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 5.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 10 | ug/l | | | | | | | |
| Iodomethane | ND | 2.0 | ug/l | | | | | | | |
| Isopropylbenzene | ND | 2.0 | ug/l | | | | | | | |
| p-Isopropyltoluene | ND | 2.0 | ug/l | | | | | | | |
| Methylene chloride | ND | 5.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentatnone (MIBK) | ND | 10 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 5.0 | ug/l | | | | | | | |
| Naphthalene | ND | 5.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Styrene | ND | 2.0 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/l | | | | | | | |
| 1,I,2,2-Tetrachloroethane | ND | 2.0 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 2.0 | ug/l | | | | | | | |
| Toluene | ND | 2.0 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 5.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,1,2-Trichloroethane | ND | 2.0 | ug/l | | | | | | | |
| Trichloroethene | ND | 2.0 | ug/l | | | | | | | |
| Trichlorofluoromethane | ND | 5.0 | ug/l | | | | | | | |

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150
Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1213 Extracted: 07/12/00** | | | | | | | | | | |
| **Blank Analyzed: 07/12/00 (P0G1213-BLK1)** | | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 10 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Vinyl acetate | ND | 5.0 | ug/l | | | | | | | |
| Vinyl chloride | ND | 5.0 | ug/l | | | | | | | |
| Xylenes, Total | ND | 10 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *21.9* | | *ug/l* | *25.0* | | *87.6* | *70-160* | | | |
| *Surrogate: Toluene-d8* | *21.9* | | *ug/l* | *25.0* | | *87.6* | *75-140* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *23.3* | | *ug/l* | *25.0* | | *93.2* | *75-135* | | | |
| **LCS Analyzed: 07/12/00 (P0G1213-BS1)** | | | | | | | | | | |
| **Acetone** | **20.7** | 20 | ug/l | 25.0 | | 82.8 | 35-150 | | | |
| **Benzene** | **24.6** | 2.0 | ug/l | 25.0 | | 98.4 | 65-155 | | | |
| **Bromobenzene** | **22.8** | 5.0 | ug/l | 25.0 | | 91.2 | 65-150 | | | |
| **Bromochloromethane** | **23.1** | 5.0 | ug/l | 25.0 | | 92.4 | 60-155 | | | |
| **Bromodichloromethane** | **25.2** | 2.0 | ug/l | 25.0 | | 101 | 60-155 | | | |
| **Bromoform** | **22.4** | 5.0 | ug/l | 25.0 | | 89.6 | 25-160 | | | |
| **Bromomethane** | **52.9** | 5.0 | ug/l | 25.0 | | 212 | 55-170 | | | L |
| **2-Butanone (MEK)** | **20.5** | 10 | ug/l | 25.0 | | 82.0 | 35-165 | | | |
| **n-Butylbenzene** | **25.1** | 5.0 | ug/l | 25.0 | | 100 | 65-140 | | | |
| **sec-Butylbenzene** | **24.9** | 5.0 | ug/l | 25.0 | | 99.6 | 60-145 | | | |
| **tert-Butylbenzene** | **23.6** | 5.0 | ug/l | 25.0 | | 94.4 | 65-145 | | | |
| **Carbon Disulfide** | **34.0** | 5.0 | ug/l | 25.0 | | 136 | 65-155 | | | |
| **Carbon tetrachloride** | **24.4** | 5.0 | ug/l | 25.0 | | 97.6 | 65-150 | | | |
| **Chlorobenzene** | **24.3** | 2.0 | ug/l | 25.0 | | 97.2 | 65-145 | | | |
| **Chloroethane** | **22.6** | 5.0 | ug/l | 25.0 | | 90.4 | 65-165 | | | |
| **Chloroform** | **25.7** | 2.0 | ug/l | 25.0 | | 103 | 70-130 | | | |
| **Chloromethane** | **19.2** | 5.0 | ug/l | 25.0 | | 76.8 | 60-165 | | | |
| **2-Chlorotoluene** | **23.1** | 5.0 | ug/l | 25.0 | | 92.4 | 65-145 | | | |
| **4-Chlorotoluene** | **22.9** | 5.0 | ug/l | 25.0 | | 91.6 | 70-145 | | | |
| **Dibromochloromethane** | **24.6** | 2.0 | ug/l | 25.0 | | 98.4 | 55-155 | | | |

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Attention: Jim Clarke

Client Project ID: 70211-0-0150
Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1213 Extracted: 07/12/00** | | | | | | | | | | |
| **LCS Analyzed: 07/12/00 (P0G1213-BS1)** | | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | 26.8 | 5.0 | ug/l | 25.0 | | 107 | 40-150 | | | |
| 1,2-Dibromoethane (EDB) | 24.2 | 2.0 | ug/l | 25.0 | | 96.8 | 55-155 | | | |
| Dibromomethane | 25.2 | 2.0 | ug/l | 25.0 | | 101 | 60-155 | | | |
| 1,2-Dichlorobenzene | 24.0 | 2.0 | ug/l | 25.0 | | 96.0 | 65-140 | | | |
| 1,3-Dichlorobenzene | 24.2 | 2.0 | ug/l | 25.0 | | 96.8 | 65-145 | | | |
| 1,4-Dichlorobenzene | 24.6 | 2.0 | ug/l | 25.0 | | 98.4 | 65-140 | | | |
| Dichlorodifluoromethane | 13.1 | 5.0 | ug/l | 25.0 | | 52.4 | 30-190 | | | |
| 1,1-Dichloroethane | 23.2 | 2.0 | ug/l | 25.0 | | 92.8 | 70-130 | | | |
| 1,2-Dichloroethane | 24.8 | 2.0 | ug/l | 25.0 | | 99.2 | 70-130 | | | |
| 1,1-Dichloroethene | 27.9 | 5.0 | ug/l | 25.0 | | 112 | 70-130 | | | |
| cis-1,2-Dichloroethene | 23.9 | 2.0 | ug/l | 25.0 | | 95.6 | 70-130 | | | |
| trans-1,2-Dichloroethene | 26.7 | 2.0 | ug/l | 25.0 | | 107 | 55-175 | | | |
| 1,2-Dichloropropane | 27.2 | 2.0 | ug/l | 25.0 | | 109 | 70-130 | | | |
| 1,3-Dichloropropane | 25.6 | 2.0 | ug/l | 25.0 | | 102 | 60-150 | | | |
| 2,2-Dichloropropane | 21.3 | 2.0 | ug/l | 25.0 | | 85.2 | 15-200 | | | |
| 1,1-Dichloropropene | 24.5 | 2.0 | ug/l | 25.0 | | 98.0 | 65-150 | | | |
| cis-1,3-Dichloropropene | 24.9 | 2.0 | ug/l | 25.0 | | 99.6 | 65-150 | | | |
| trans-1,3-Dichloropropene | 24.5 | 2.0 | ug/l | 25.0 | | 98.0 | 60-150 | | | |
| Ethylbenzene | 22.1 | 2.0 | ug/l | 25.0 | | 88.4 | 60-150 | | | |
| Hexachlorobutadiene | 23.8 | 5.0 | ug/l | 25.0 | | 95.2 | 55-150 | | | |
| 2-Hexanone | 27.3 | 10 | ug/l | 25.0 | | 109 | 35-165 | | | |
| Iodomethane | 20.9 | 2.0 | ug/l | 25.0 | | 83.6 | 65-160 | | | |
| Isopropylbenzene | 24.0 | 2.0 | ug/l | 25.0 | | 96.0 | 65-145 | | | |
| p-Isopropyltoluene | 23.4 | 2.0 | ug/l | 25.0 | | 93.6 | 60-145 | | | |
| Methylene chloride | 27.5 | 5.0 | ug/l | 25.0 | | 110 | 65-160 | | | |
| 4-Methyl-2-pentatnone (MIBK) | 25.9 | 10 | ug/l | 25.0 | | 104 | 40-165 | | | |
| Methyl-tert-butyl Ether (MTBE) | 28.8 | 5.0 | ug/l | 25.0 | | 115 | 60-160 | | | |
| Naphthalene | 24.0 | 5.0 | ug/l | 25.0 | | 96.0 | 50-150 | | | |
| n-Propylbenzene | 25.3 | 2.0 | ug/l | 25.0 | | 101 | 70-145 | | | |
| Styrene | 24.4 | 2.0 | ug/l | 25.0 | | 97.6 | 65-150 | | | |

Julie M. Slocum
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Attention: Jim Clarke

Client Project ID: 70211-0-0150
Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1213 Extracted: 07/12/00** | | | | | | | | | | |
| **LCS Analyzed: 07/12/00 (P0G1213-BS1)** | | | | | | | | | | |
| **1,1,1,2-Tetrachloroethane** | **22.0** | 5.0 | ug/l | 25.0 | | 88.0 | 60-155 | | | |
| **1,1,2,2-Tetrachloroethane** | **19.9** | 2.0 | ug/l | 25.0 | | 79.6 | 65-150 | | | |
| **Tetrachloroethene** | **24.9** | 2.0 | ug/l | 25.0 | | 99.6 | 70-130 | | | |
| **Toluene** | **24.3** | 2.0 | ug/l | 25.0 | | 97.2 | 75-120 | | | |
| **1,2,3-Trichlorobenzene** | **24.6** | 5.0 | ug/l | 25.0 | | 98.4 | 55-150 | | | |
| **1,2,4-Trichlorobenzene** | **23.7** | 5.0 | ug/l | 25.0 | | 94.8 | 60-145 | | | |
| **1,1,1-Trichloroethane** | **24.3** | 2.0 | ug/l | 25.0 | | 97.2 | 70-130 | | | |
| **1,1,2-Trichloroethane** | **24.6** | 2.0 | ug/l | 25.0 | | 98.4 | 70-130 | | | |
| **Trichloroethene** | **26.6** | 2.0 | ug/l | 25.0 | | 106 | 75-120 | | | |
| **Trichlorofluoromethane** | **17.3** | 5.0 | ug/l | 25.0 | | 69.2 | 10-200 | | | |
| **1,2,3-Trichloropropane** | **22.5** | 10 | ug/l | 25.0 | | 90.0 | 55-150 | | | |
| **1,2,4-Trimethylbenzene** | **23.2** | 2.0 | ug/l | 25.0 | | 92.8 | 65-150 | | | |
| **1,3,5-Trimethylbenzene** | **23.7** | 2.0 | ug/l | 25.0 | | 94.8 | 65-150 | | | |
| **Vinyl acetate** | **26.6** | 5.0 | ug/l | 25.0 | | 106 | 50-160 | | | |
| **Vinyl chloride** | **18.6** | 5.0 | ug/l | 25.0 | | 74.4 | 25-200 | | | |
| **Xylenes, Total** | **73.5** | 10 | ug/l | 75.0 | | 98.0 | 65-145 | | | |
| *Surrogate: Dibromofluoromethane* | *21.4* | | *ug/l* | *25.0* | | *85.6* | *70-160* | | | |
| *Surrogate: Toluene-d8* | *24.0* | | *ug/l* | *25.0* | | *96.0* | *75-140* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *22.4* | | *ug/l* | *25.0* | | *89.6* | *75-135* | | | |
| **LCS Dup Analyzed: 07/12/00 (P0G1213-BSD1)** | | | | | | | | | | |
| **Acetone** | **31.4** | 20 | ug/l | 25.0 | | 126 | 35-150 | 41.1 | 20 | R2 |
| **Benzene** | **22.7** | 2.0 | ug/l | 25.0 | | 90.8 | 65-155 | 8.03 | 20 | |
| **Bromobenzene** | **21.9** | 5.0 | ug/l | 25.0 | | 87.6 | 65-150 | 4.03 | 20 | |
| **Bromochloromethane** | **24.4** | 5.0 | ug/l | 25.0 | | 97.6 | 60-155 | 5.47 | 20 | |
| **Bromodichloromethane** | **23.6** | 2.0 | ug/l | 25.0 | | 94.4 | 60-155 | 6.56 | 20 | |
| **Bromoform** | **23.6** | 5.0 | ug/l | 25.0 | | 94.4 | 25-160 | 5.22 | 20 | |
| **Bromomethane** | **38.8** | 5.0 | ug/l | 25.0 | | 155 | 55-170 | 30.8 | 20 | R2 |
| **2-Butanone (MEK)** | **26.4** | 10 | ug/l | 25.0 | | 106 | 35-165 | 25.2 | 20 | R2 |
| **n-Butylbenzene** | **23.2** | 5.0 | ug/l | 25.0 | | 92.8 | 65-140 | 7.87 | 20 | |
| **sec-Butylbenzene** | **22.1** | 5.0 | ug/l | 25.0 | | 88.4 | 60-145 | 11.9 | 20 | |

Julie M. Slocum
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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150
Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

METHOD BLANK QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1213 Extracted: 07/12/00** | | | | | | | | | | |
| **LCS Dup Analyzed: 07/12/00 (P0G1213-BSD1)** | | | | | | | | | | |
| tert-Butylbenzene | 21.7 | 5.0 | ug/l | 25.0 | | 86.8 | 65-145 | 8.39 | 20 | |
| Carbon Disulfide | 31.8 | 5.0 | ug/l | 25.0 | | 127 | 65-155 | 6.69 | 20 | |
| Carbon tetrachloride | 22.5 | 5.0 | ug/l | 25.0 | | 90.0 | 65-150 | 8.10 | 20 | |
| Chlorobenzene | 21.9 | 2.0 | ug/l | 25.0 | | 87.6 | 65-145 | 10.4 | 20 | |
| Chloroethane | 19.2 | 5.0 | ug/l | 25.0 | | 76.8 | 65-165 | 16.3 | 20 | |
| Chloroform | 24.5 | 2.0 | ug/l | 25.0 | | 98.0 | 70-130 | 4.78 | 20 | |
| Chloromethane | 17.3 | 5.0 | ug/l | 25.0 | | 69.2 | 60-165 | 10.4 | 20 | |
| 2-Chlorotoluene | 22.3 | 5.0 | ug/l | 25.0 | | 89.2 | 65-145 | 3.52 | 20 | |
| 4-Chlorotoluene | 22.1 | 5.0 | ug/l | 25.0 | | 88.4 | 70-145 | 3.56 | 20 | |
| Dibromochloromethane | 23.4 | 2.0 | ug/l | 25.0 | | 93.6 | 55-155 | 5.00 | 20 | |
| 1,2-Dibromo-3-chloropropane | 26.3 | 5.0 | ug/l | 25.0 | | 105 | 40-150 | 1.88 | 20 | |
| 1,2-Dibromoethane (EDB) | 23.2 | 2.0 | ug/l | 25.0 | | 92.8 | 55-155 | 4.22 | 20 | |
| Dibromomethane | 24.5 | 2.0 | ug/l | 25.0 | | 98.0 | 60-155 | 2.82 | 20 | |
| 1,2-Dichlorobenzene | 22.0 | 2.0 | ug/l | 25.0 | | 88.0 | 65-140 | 8.70 | 20 | |
| 1,3-Dichlorobenzene | 21.9 | 2.0 | ug/l | 25.0 | | 87.6 | 65-145 | 9.98 | 20 | |
| 1,4-Dichlorobenzene | 22.0 | 2.0 | ug/l | 25.0 | | 88.0 | 65-140 | 11.2 | 20 | |
| Dichlorodifluoromethane | 11.3 | 5.0 | ug/l | 25.0 | | 45.2 | 30-190 | 14.8 | 20 | |
| 1,1-Dichloroethane | 22.9 | 2.0 | ug/l | 25.0 | | 91.6 | 70-130 | 1.30 | 20 | |
| 1,2-Dichloroethane | 23.7 | 2.0 | ug/l | 25.0 | | 94.8 | 70-130 | 4.54 | 20 | |
| 1,1-Dichloroethene | 24.9 | 5.0 | ug/l | 25.0 | | 99.6 | 70-130 | 11.4 | 20 | |
| cis-1,2-Dichloroethene | 22.1 | 2.0 | ug/l | 25.0 | | 88.4 | 70-130 | 7.83 | 20 | |
| trans-1,2-Dichloroethene | 24.9 | 2.0 | ug/l | 25.0 | | 99.6 | 55-175 | 6.98 | 20 | |
| 1,2-Dichloropropane | 25.4 | 2.0 | ug/l | 25.0 | | 102 | 70-130 | 6.84 | 20 | |
| 1,3-Dichloropropane | 23.6 | 2.0 | ug/l | 25.0 | | 94.4 | 60-150 | 8.13 | 20 | |
| 2,2-Dichloropropane | 17.5 | 2.0 | ug/l | 25.0 | | 70.0 | 15-200 | 19.6 | 20 | |
| 1,1-Dichloropropene | 22.9 | 2.0 | ug/l | 25.0 | | 91.6 | 65-150 | 6.75 | 20 | |
| cis-1,3-Dichloropropene | 22.1 | 2.0 | ug/l | 25.0 | | 88.4 | 65-150 | 11.9 | 20 | |
| trans-1,3-Dichloropropene | 21.2 | 2.0 | ug/l | 25.0 | | 84.8 | 60-150 | 14.4 | 20 | |
| Ethylbenzene | 21.2 | 2.0 | ug/l | 25.0 | | 84.8 | 60-150 | 4.16 | 20 | |
| Hexachlorobutadiene | 22.1 | 5.0 | ug/l | 25.0 | | 88.4 | 55-150 | 7.41 | 20 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150
Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1213 Extracted: 07/12/00** | | | | | | | | | | |
| **LCS Dup Analyzed: 07/12/00 (P0G1213-BSD1)** | | | | | | | | | | |
| 2-Hexanone | 27.9 | 10 | ug/l | 25.0 | | 112 | 35-165 | 2.17 | 20 | |
| Iodomethane | 17.5 | 2.0 | ug/l | 25.0 | | 70.0 | 65-160 | 17.7 | 20 | |
| Isopropylbenzene | 21.4 | 2.0 | ug/l | 25.0 | | 85.6 | 65-145 | 11.5 | 20 | |
| p-Isopropyltoluene | 21.9 | 2.0 | ug/l | 25.0 | | 87.6 | 60-145 | 6.62 | 20 | |
| Methylene chloride | 25.0 | 5.0 | ug/l | 25.0 | | 100 | 65-160 | 9.52 | 20 | |
| 4-Methyl-2-pentatnone (MIBK) | 26.6 | 10 | ug/l | 25.0 | | 106 | 40-165 | 2.67 | 20 | |
| Methyl-tert-butyl Ether (MTBE) | 27.9 | 5.0 | ug/l | 25.0 | | 112 | 60-160 | 3.17 | 20 | |
| Naphthalene | 23.5 | 5.0 | ug/l | 25.0 | | 94.0 | 50-150 | 2.11 | 20 | |
| n-Propylbenzene | 23.4 | 2.0 | ug/l | 25.0 | | 93.6 | 70-145 | 7.80 | 20 | |
| Styrene | 22.1 | 2.0 | ug/l | 25.0 | | 88.4 | 65-150 | 9.89 | 20 | |
| 1,1,1,2-Tetrachloroethane | 22.4 | 5.0 | ug/l | 25.0 | | 89.6 | 60-155 | 1.80 | 20 | |
| 1,1,2,2-Tetrachloroethane | 25.6 | 2.0 | ug/l | 25.0 | | 102 | 65-150 | 25.1 | 20 | R2 |
| Tetrachloroethene | 23.0 | 2.0 | ug/l | 25.0 | | 92.0 | 70-130 | 7.93 | 20 | |
| Toluene | 23.1 | 2.0 | ug/l | 25.0 | | 92.4 | 75-120 | 5.06 | 20 | |
| 1,2,3-Trichlorobenzene | 22.0 | 5.0 | ug/l | 25.0 | | 88.0 | 55-150 | 11.2 | 20 | |
| 1,2,4-Trichlorobenzene | 21.9 | 5.0 | ug/l | 25.0 | | 87.6 | 60-145 | 7.89 | 20 | |
| 1,1,1-Trichloroethane | 23.1 | 2.0 | ug/l | 25.0 | | 92.4 | 70-130 | 5.06 | 20 | |
| 1,1,2-Trichloroethane | 23.4 | 2.0 | ug/l | 25.0 | | 93.6 | 70-130 | 5.00 | 20 | |
| Trichloroethene | 22.5 | 2.0 | ug/l | 25.0 | | 90.0 | 75-120 | 16.7 | 20 | |
| Trichlorofluoromethane | 15.3 | 5.0 | ug/l | 25.0 | | 61.2 | 10-200 | 12.3 | 20 | |
| 1,2,3-Trichloropropane | 23.4 | 10 | ug/l | 25.0 | | 93.6 | 55-150 | 3.92 | 20 | |
| 1,2,4-Trimethylbenzene | 22.0 | 2.0 | ug/l | 25.0 | | 88.0 | 65-150 | 5.31 | 20 | |
| 1,3,5-Trimethylbenzene | 21.8 | 2.0 | ug/l | 25.0 | | 87.2 | 65-150 | 8.35 | 20 | |
| Vinyl acetate | 25.9 | 5.0 | ug/l | 25.0 | | 104 | 50-160 | 2.67 | 20 | |
| Vinyl chloride | 17.1 | 5.0 | ug/l | 25.0 | | 68.4 | 25-200 | 8.40 | 20 | |
| Xylenes, Total | 65.4 | 10 | ug/l | 75.0 | | 87.2 | 65-145 | 11.7 | 20 | |
| *Surrogate: Dibromofluoromethane* | *24.3* | | *ug/l* | *25.0* | | *97.2* | *70-160* | | | |
| *Surrogate: Toluene-d8* | *23.8* | | *ug/l* | *25.0* | | *95.2* | *75-140* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *22.8* | | *ug/l* | *25.0* | | *91.2* | *75-135* | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150

Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1213 Extracted: 07/12/00** | | | | | | | | | | |
| **Matrix Spike Analyzed: 07/12/00 (P0G1213-MS1)** | | | | | **Source: PJG0032-01** | | | | | |
| Acetone | 28.3 | 20 | ug/l | 25.0 | ND | 113 | 35-150 | | | |
| Benzene | 22.8 | 2.0 | ug/l | 25.0 | ND | 91.2 | 65-155 | | | |
| Bromobenzene | 22.6 | 5.0 | ug/l | 25.0 | ND | 90.4 | 65-150 | | | |
| Bromochloromethane | 23.3 | 5.0 | ug/l | 25.0 | ND | 93.2 | 60-155 | | | |
| Bromodichloromethane | 24.0 | 2.0 | ug/l | 25.0 | ND | 96.0 | 60-155 | | | |
| Bromoform | 24.9 | 5.0 | ug/l | 25.0 | ND | 99.6 | 25-160 | | | |
| Bromomethane | 38.7 | 5.0 | ug/l | 25.0 | ND | 155 | 55-170 | | | |
| 2-Butanone (MEK) | 30.5 | 10 | ug/l | 25.0 | ND | 122 | 35-165 | | | |
| n-Butylbenzene | 24.3 | 5.0 | ug/l | 25.0 | ND | 97.2 | 65-140 | | | |
| sec-Butylbenzene | 23.3 | 5.0 | ug/l | 25.0 | ND | 93.2 | 60-145 | | | |
| tert-Butylbenzene | 22.6 | 5.0 | ug/l | 25.0 | ND | 90.4 | 65-145 | | | |
| Carbon Disulfide | 31.0 | 5.0 | ug/l | 25.0 | ND | 124 | 65-155 | | | |
| Carbon tetrachloride | 22.4 | 5.0 | ug/l | 25.0 | ND | 89.6 | 65-150 | | | |
| Chlorobenzene | 21.8 | 2.0 | ug/l | 25.0 | ND | 87.2 | 65-145 | | | |
| Chloroethane | 19.7 | 5.0 | ug/l | 25.0 | ND | 78.8 | 65-165 | | | |
| Chloroform | 24.6 | 2.0 | ug/l | 25.0 | ND | 98.4 | 70-130 | | | |
| Chloromethane | 17.3 | 5.0 | ug/l | 25.0 | ND | 69.2 | 60-165 | | | |
| 2-Chlorotoluene | 22.4 | 5.0 | ug/l | 25.0 | ND | 89.6 | 65-145 | | | |
| 4-Chlorotoluene | 22.3 | 5.0 | ug/l | 25.0 | ND | 89.2 | 70-145 | | | |
| Dibromochloromethane | 24.6 | 2.0 | ug/l | 25.0 | ND | 98.4 | 55-155 | | | |
| 1,2-Dibromo-3-chloropropane | 26.9 | 5.0 | ug/l | 25.0 | ND | 108 | 40-150 | | | |
| 1,2-Dibromoethane (EDB) | 24.0 | 2.0 | ug/l | 25.0 | ND | 96.0 | 55-155 | | | |
| Dibromomethane | 24.1 | 2.0 | ug/l | 25.0 | ND | 96.4 | 60-155 | | | |
| 1,2-Dichlorobenzene | 22.6 | 2.0 | ug/l | 25.0 | ND | 90.4 | 65-140 | | | |
| 1,3-Dichlorobenzene | 23.0 | 2.0 | ug/l | 25.0 | ND | 92.0 | 65-145 | | | |
| 1,4-Dichlorobenzene | 22.9 | 2.0 | ug/l | 25.0 | ND | 91.6 | 65-140 | | | |
| Dichlorodifluoromethane | 11.3 | 5.0 | ug/l | 25.0 | ND | 45.2 | 30-190 | | | |
| 1,1-Dichloroethane | 22.2 | 2.0 | ug/l | 25.0 | ND | 88.8 | 70-130 | | | |
| 1,2-Dichloroethane | 23.3 | 2.0 | ug/l | 25.0 | ND | 93.2 | 70-130 | | | |
| 1,1-Dichloroethene | 24.9 | 5.0 | ug/l | 25.0 | ND | 99.6 | 55-125 | | | |

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Attention: Jim Clarke

Client Project ID: 70211-0-0150

Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1213 Extracted: 07/12/00** | | | | | | | | | | |
| **Matrix Spike Analyzed: 07/12/00 (P0G1213-MS1)** | | | | | **Source: PJG0032-01** | | | | | |
| **cis-1,2-Dichloroethene** | **21.9** | 2.0 | ug/l | 25.0 | ND | 87.6 | 70-130 | | | |
| **trans-1,2-Dichloroethene** | **24.8** | 2.0 | ug/l | 25.0 | ND | 99.2 | 55-175 | | | |
| **1,2-Dichloropropane** | **24.7** | 2.0 | ug/l | 25.0 | ND | 98.8 | 70-130 | | | |
| **1,3-Dichloropropane** | **24.4** | 2.0 | ug/l | 25.0 | ND | 97.6 | 60-150 | | | |
| **2,2-Dichloropropane** | **17.2** | 2.0 | ug/l | 25.0 | ND | 68.8 | 15-200 | | | |
| **1,1-Dichloropropene** | **23.0** | 2.0 | ug/l | 25.0 | ND | 92.0 | 65-150 | | | |
| **cis-1,3-Dichloropropene** | **22.4** | 2.0 | ug/l | 25.0 | ND | 89.6 | 65-150 | | | |
| **trans-1,3-Dichloropropene** | **21.6** | 2.0 | ug/l | 25.0 | ND | 86.4 | 60-150 | | | |
| **Ethylbenzene** | **21.5** | 2.0 | ug/l | 25.0 | ND | 86.0 | 60-150 | | | |
| **Hexachlorobutadiene** | **23.6** | 5.0 | ug/l | 25.0 | ND | 94.4 | 55-150 | | | |
| **2-Hexanone** | **28.9** | 10 | ug/l | 25.0 | ND | 116 | 35-165 | | | |
| **Iodomethane** | **17.5** | 2.0 | ug/l | 25.0 | ND | 70.0 | 65-160 | | | |
| **Isopropylbenzene** | **22.0** | 2.0 | ug/l | 25.0 | ND | 88.0 | 65-145 | | | |
| **p-Isopropyltoluene** | **23.0** | 2.0 | ug/l | 25.0 | ND | 92.0 | 60-145 | | | |
| **Methylene chloride** | **25.4** | 5.0 | ug/l | 25.0 | ND | 102 | 65-160 | | | |
| **4-Methyl-2-pentatnone (MIBK)** | **27.7** | 10 | ug/l | 25.0 | ND | 111 | 40-165 | | | |
| **Methyl-tert-butyl Ether (MTBE)** | **28.3** | 5.0 | ug/l | 25.0 | ND | 113 | 60-160 | | | |
| **Naphthalene** | **24.9** | 5.0 | ug/l | 25.0 | ND | 99.6 | 50-150 | | | |
| **n-Propylbenzene** | **24.2** | 2.0 | ug/l | 25.0 | ND | 96.8 | 70-145 | | | |
| **Styrene** | **21.1** | 2.0 | ug/l | 25.0 | ND | 84.4 | 65-150 | | | |
| **1,1,1,2-Tetrachloroethane** | **22.5** | 5.0 | ug/l | 25.0 | ND | 90.0 | 60-155 | | | |
| **1,1,2,2-Tetrachloroethane** | **27.6** | 2.0 | ug/l | 25.0 | ND | 110 | 65-150 | | | |
| **Tetrachloroethene** | **23.1** | 2.0 | ug/l | 25.0 | ND | 92.4 | 70-130 | | | |
| **Toluene** | **22.5** | 2.0 | ug/l | 25.0 | ND | 90.0 | 75-120 | | | |
| **1,2,3-Trichlorobenzene** | **23.3** | 5.0 | ug/l | 25.0 | ND | 93.2 | 55-150 | | | |
| **1,2,4-Trichlorobenzene** | **22.4** | 5.0 | ug/l | 25.0 | ND | 89.6 | 60-145 | | | |
| **1,1,1-Trichloroethane** | **22.5** | 2.0 | ug/l | 25.0 | ND | 90.0 | 70-130 | | | |
| **1,1,2-Trichloroethane** | **23.8** | 2.0 | ug/l | 25.0 | ND | 95.2 | 70-130 | | | |
| **Trichloroethene** | **22.3** | 2.0 | ug/l | 25.0 | ND | 89.2 | 75-120 | | | |
| **Trichlorofluoromethane** | **15.1** | 5.0 | ug/l | 25.0 | ND | 60.4 | 10-200 | | | |

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Sampled: 07/06/00
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METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1213 Extracted: 07/12/00** | | | | | | | | | | |
| **Matrix Spike Analyzed: 07/12/00 (P0G1213-MS1)** | | | | | **Source: PJG0032-01** | | | | | |
| **1,2,3-Trichloropropane** | **25.2** | 10 | ug/l | 25.0 | ND | 101 | 55-150 | | | |
| **1,2,4-Trimethylbenzene** | **22.6** | 2.0 | ug/l | 25.0 | ND | 90.4 | 65-150 | | | |
| **1,3,5-Trimethylbenzene** | **22.9** | 2.0 | ug/l | 25.0 | ND | 91.6 | 65-150 | | | |
| **Vinyl acetate** | **23.0** | 5.0 | ug/l | 25.0 | ND | 92.0 | 50-160 | | | |
| **Vinyl chloride** | **17.0** | 5.0 | ug/l | 25.0 | ND | 68.0 | 25-200 | | | |
| **Xylenes, Total** | **65.1** | 10 | ug/l | 75.0 | ND | 86.8 | 65-145 | | | |
| *Surrogate: Dibromofluoromethane* | *24.0* | | *ug/l* | *25.0* | | *96.0* | *70-160* | | | |
| *Surrogate: Toluene-d8* | *23.4* | | *ug/l* | *25.0* | | *93.6* | *75-140* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *22.9* | | *ug/l* | *25.0* | | *91.6* | *75-135* | | | |
| **Matrix Spike Dup Analyzed: 07/12/00 (P0G1213-MSD1)** | | | | | **Source: PJG0032-01** | | | | | |
| **Acetone** | **25.0** | 20 | ug/l | 25.0 | ND | 100 | 35-150 | 12.4 | 20 | |
| **Benzene** | **22.5** | 2.0 | ug/l | 25.0 | ND | 90.0 | 65-155 | 1.32 | 20 | |
| **Bromobenzene** | **22.1** | 5.0 | ug/l | 25.0 | ND | 88.4 | 65-150 | 2.24 | 20 | |
| **Bromochloromethane** | **23.0** | 5.0 | ug/l | 25.0 | ND | 92.0 | 60-155 | 1.30 | 20 | |
| **Bromodichloromethane** | **23.3** | 2.0 | ug/l | 25.0 | ND | 93.2 | 60-155 | 2.96 | 20 | |
| **Bromoform** | **23.9** | 5.0 | ug/l | 25.0 | ND | 95.6 | 25-160 | 4.10 | 20 | |
| **Bromomethane** | **38.7** | 5.0 | ug/l | 25.0 | ND | 155 | 55-170 | 0 | 20 | |
| **2-Butanone (MEK)** | **30.7** | 10 | ug/l | 25.0 | ND | 123 | 35-165 | 0.654 | 20 | |
| **n-Butylbenzene** | **24.0** | 5.0 | ug/l | 25.0 | ND | 96.0 | 65-140 | 1.24 | 20 | |
| **sec-Butylbenzene** | **22.8** | 5.0 | ug/l | 25.0 | ND | 91.2 | 60-145 | 2.17 | 20 | |
| **tert-Butylbenzene** | **22.9** | 5.0 | ug/l | 25.0 | ND | 91.6 | 65-145 | 1.32 | 20 | |
| **Carbon Disulfide** | **31.6** | 5.0 | ug/l | 25.0 | ND | 126 | 65-155 | 1.92 | 20 | |
| **Carbon tetrachloride** | **22.4** | 5.0 | ug/l | 25.0 | ND | 89.6 | 65-150 | 0 | 20 | |
| **Chlorobenzene** | **21.5** | 2.0 | ug/l | 25.0 | ND | 86.0 | 65-145 | 1.39 | 20 | |
| **Chloroethane** | **20.2** | 5.0 | ug/l | 25.0 | ND | 80.8 | 65-165 | 2.51 | 20 | |
| **Chloroform** | **24.1** | 2.0 | ug/l | 25.0 | ND | 96.4 | 70-130 | 2.05 | 20 | |
| **Chloromethane** | **17.9** | 5.0 | ug/l | 25.0 | ND | 71.6 | 60-165 | 3.41 | 20 | |
| **2-Chlorotoluene** | **22.0** | 5.0 | ug/l | 25.0 | ND | 88.0 | 65-145 | 1.80 | 20 | |
| **4-Chlorotoluene** | **21.9** | 5.0 | ug/l | 25.0 | ND | 87.6 | 70-145 | 1.81 | 20 | |
| **Dibromochloromethane** | **23.1** | 2.0 | ug/l | 25.0 | ND | 92.4 | 55-155 | 6.29 | 20 | |

Julie M. Slocum
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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150
Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

## METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1213 Extracted: 07/12/00** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 07/12/00 (P0G1213-MSD1)** | | | | | Source: PJG0032-01 | | | | | |
| 1,2-Dibromo-3-chloropropane | 26.8 | 5.0 | ug/l | 25.0 | ND | 107 | 40-150 | 0.372 | 20 | |
| 1,2-Dibromoethane (EDB) | 22.6 | 2.0 | ug/l | 25.0 | ND | 90.4 | 55-155 | 6.01 | 20 | |
| Dibromomethane | 24.0 | 2.0 | ug/l | 25.0 | ND | 96.0 | 60-155 | 0.416 | 20 | |
| 1,2-Dichlorobenzene | 22.0 | 2.0 | ug/l | 25.0 | ND | 88.0 | 65-140 | 2.69 | 20 | |
| 1,3-Dichlorobenzene | 21.8 | 2.0 | ug/l | 25.0 | ND | 87.2 | 65-145 | 5.36 | 20 | |
| 1,4-Dichlorobenzene | 22.1 | 2.0 | ug/l | 25.0 | ND | 88.4 | 65-140 | 3.56 | 20 | |
| Dichlorodifluoromethane | 11.5 | 5.0 | ug/l | 25.0 | ND | 46.0 | 30-190 | 1.75 | 20 | |
| 1,1-Dichloroethane | 22.7 | 2.0 | ug/l | 25.0 | ND | 90.8 | 70-130 | 2.23 | 20 | |
| 1,2-Dichloroethane | 22.9 | 2.0 | ug/l | 25.0 | ND | 91.6 | 70-130 | 1.73 | 20 | |
| 1,1-Dichloroethene | 25.2 | 5.0 | ug/l | 25.0 | ND | 101 | 55-125 | 1.20 | 20 | |
| cis-1,2-Dichloroethene | 21.7 | 2.0 | ug/l | 25.0 | ND | 86.8 | 70-130 | 0.917 | 20 | |
| trans-1,2-Dichloroethene | 24.9 | 2.0 | ug/l | 25.0 | ND | 99.6 | 55-175 | 0.402 | 20 | |
| 1,2-Dichloropropane | 25.9 | 2.0 | ug/l | 25.0 | ND | 104 | 70-130 | 4.74 | 20 | |
| 1,3-Dichloropropane | 23.4 | 2.0 | ug/l | 25.0 | ND | 93.6 | 60-150 | 4.18 | 20 | |
| 2,2-Dichloropropane | 16.5 | 2.0 | ug/l | 25.0 | ND | 66.0 | 15-200 | 4.15 | 20 | |
| 1,1-Dichloropropene | 22.9 | 2.0 | ug/l | 25.0 | ND | 91.6 | 65-150 | 0.436 | 20 | |
| cis-1,3-Dichloropropene | 21.7 | 2.0 | ug/l | 25.0 | ND | 86.8 | 65-150 | 3.17 | 20 | |
| trans-1,3-Dichloropropene | 21.0 | 2.0 | ug/l | 25.0 | ND | 84.0 | 60-150 | 2.82 | 20 | |
| Ethylbenzene | 20.7 | 2.0 | ug/l | 25.0 | ND | 82.8 | 60-150 | 3.79 | 20 | |
| Hexachlorobutadiene | 23.8 | 5.0 | ug/l | 25.0 | ND | 95.2 | 55-150 | 0.844 | 20 | |
| 2-Hexanone | 26.4 | 10 | ug/l | 25.0 | ND | 106 | 35-165 | 9.04 | 20 | |
| Iodomethane | 18.4 | 2.0 | ug/l | 25.0 | ND | 73.6 | 65-160 | 5.01 | 20 | |
| Isopropylbenzene | 21.4 | 2.0 | ug/l | 25.0 | ND | 85.6 | 65-145 | 2.76 | 20 | |
| p-Isopropyltoluene | 22.5 | 2.0 | ug/l | 25.0 | ND | 90.0 | 60-145 | 2.20 | 20 | |
| Methylene chloride | 26.1 | 5.0 | ug/l | 25.0 | ND | 104 | 65-160 | 2.72 | 20 | |
| 4-Methyl-2-pentatnone (MIBK) | 26.6 | 10 | ug/l | 25.0 | ND | 106 | 40-165 | 4.05 | 20 | |
| Methyl-tert-butyl Ether (MTBE) | 27.8 | 5.0 | ug/l | 25.0 | ND | 111 | 60-160 | 1.78 | 20 | |
| Naphthalene | 24.3 | 5.0 | ug/l | 25.0 | ND | 97.2 | 50-150 | 2.44 | 20 | |
| n-Propylbenzene | 23.8 | 2.0 | ug/l | 25.0 | ND | 95.2 | 70-145 | 1.67 | 20 | |
| Styrene | 20.4 | 2.0 | ug/l | 25.0 | ND | 81.6 | 65-150 | 3.37 | 20 | |

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4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150
Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1213 Extracted: 07/12/00** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 07/12/00 (P0G1213-MSD1)** | | | | | **Source: PJG0032-01** | | | | | |
| **1,1,1,2-Tetrachloroethane** | **21.9** | 5.0 | ug/l | 25.0 | ND | 87.6 | 60-155 | 2.70 | 20 | |
| **1,1,2,2-Tetrachloroethane** | **25.6** | 2.0 | ug/l | 25.0 | ND | 102 | 65-150 | 7.52 | 20 | |
| **Tetrachloroethene** | **22.4** | 2.0 | ug/l | 25.0 | ND | 89.6 | 70-130 | 3.08 | 20 | |
| **Toluene** | **21.6** | 2.0 | ug/l | 25.0 | ND | 86.4 | 75-120 | 4.08 | 20 | |
| **1,2,3-Trichlorobenzene** | **23.4** | 5.0 | ug/l | 25.0 | ND | 93.6 | 55-150 | 0.428 | 20 | |
| **1,2,4-Trichlorobenzene** | **22.5** | 5.0 | ug/l | 25.0 | ND | 90.0 | 60-145 | 0.445 | 20 | |
| **1,1,1-Trichloroethane** | **22.2** | 2.0 | ug/l | 25.0 | ND | 88.8 | 70-130 | 1.34 | 20 | |
| **1,1,2-Trichloroethane** | **22.7** | 2.0 | ug/l | 25.0 | ND | 90.8 | 70-130 | 4.73 | 20 | |
| **Trichloroethene** | **22.6** | 2.0 | ug/l | 25.0 | ND | 90.4 | 75-120 | 1.34 | 20 | |
| **Trichlorofluoromethane** | **15.6** | 5.0 | ug/l | 25.0 | ND | 62.4 | 10-200 | 3.26 | 20 | |
| **1,2,3-Trichloropropane** | **24.9** | 10 | ug/l | 25.0 | ND | 99.6 | 55-150 | 1.20 | 20 | |
| **1,2,4-Trimethylbenzene** | **22.4** | 2.0 | ug/l | 25.0 | ND | 89.6 | 65-150 | 0.889 | 20 | |
| **1,3,5-Trimethylbenzene** | **22.4** | 2.0 | ug/l | 25.0 | ND | 89.6 | 65-150 | 2.21 | 20 | |
| **Vinyl acetate** | **23.0** | 5.0 | ug/l | 25.0 | ND | 92.0 | 50-160 | 0 | 20 | |
| **Vinyl chloride** | **17.4** | 5.0 | ug/l | 25.0 | ND | 69.6 | 25-200 | 2.33 | 20 | |
| **Xylenes, Total** | **62.7** | 10 | ug/l | 75.0 | ND | 83.6 | 65-145 | 3.76 | 20 | |
| *Surrogate: Dibromofluoromethane* | *24.1* | | *ug/l* | *25.0* | | *96.4* | *70-160* | | | |
| *Surrogate: Toluene-d8* | *22.9* | | *ug/l* | *25.0* | | *91.6* | *75-140* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *22.3* | | *ug/l* | *25.0* | | *89.2* | *75-135* | | | |
| **Batch: P0G1303 Extracted: 07/13/00** | | | | | | | | | | |
| **Blank Analyzed: 07/13/00 (P0G1303-BLK1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | |
| Benzene | ND | 2.0 | ug/l | | | | | | | |
| Bromobenzene | ND | 5.0 | ug/l | | | | | | | |
| Bromochloromethane | ND | 5.0 | ug/l | | | | | | | |
| Bromodichloromethane | ND | 2.0 | ug/l | | | | | | | |
| Bromoform | ND | 5.0 | ug/l | | | | | | | |
| Bromomethane | ND | 5.0 | ug/l | | | | | | | |
| 2-Butanone (MEK) | ND | 10 | ug/l | | | | | | | |

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150
Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1303 Extracted: 07/13/00** | | | | | | | | | | |
| **Blank Analyzed: 07/13/00 (P0G1303-BLK1)** | | | | | | | | | | |
| n-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| sec-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| tert-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| Carbon Disulfide | ND | 5.0 | ug/l | | | | | | | |
| Carbon tetrachloride | ND | 5.0 | ug/l | | | | | | | |
| Chlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| Chloroethane | ND | 5.0 | ug/l | | | | | | | |
| Chloroform | ND | 2.0 | ug/l | | | | | | | |
| Chloromethane | ND | 5.0 | ug/l | | | | | | | |
| 2-Chlorotoluene | ND | 5.0 | ug/l | | | | | | | |
| 4-Chlorotoluene | ND | 5.0 | ug/l | | | | | | | |
| Dibromochloromethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/l | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 2.0 | ug/l | | | | | | | |
| Dibromomethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| Dichlorodifluoromethane | ND | 5.0 | ug/l | | | | | | | |
| 1,1-Dichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,1-Dichloroethene | ND | 5.0 | ug/l | | | | | | | |
| cis-1,2-Dichloroethene | ND | 2.0 | ug/l | | | | | | | |
| trans-1,2-Dichloroethene | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,3-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 2,2-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,1-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| cis-1,3-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |

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Attention: Jim Clarke

Client Project ID: 70211-0-0150
Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1303 Extracted: 07/13/00** | | | | | | | | | | |
| **Blank Analyzed: 07/13/00 (P0G1303-BLK1)** | | | | | | | | | | |
| Ethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 5.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 10 | ug/l | | | | | | | |
| Iodomethane | ND | 2.0 | ug/l | | | | | | | |
| Isopropylbenzene | ND | 2.0 | ug/l | | | | | | | |
| p-Isopropyltoluene | ND | 2.0 | ug/l | | | | | | | |
| Methylene chloride | ND | 5.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentatnone (MIBK) | ND | 10 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 5.0 | ug/l | | | | | | | |
| Naphthalene | ND | 5.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Styrene | ND | 2.0 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/l | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 2.0 | ug/l | | | | | | | |
| Toluene | ND | 2.0 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 5.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,1,2-Trichloroethane | ND | 2.0 | ug/l | | | | | | | |
| Trichloroethene | ND | 2.0 | ug/l | | | | | | | |
| Trichlorofluoromethane | ND | 5.0 | ug/l | | | | | | | |
| 1,2,3-Trichloropropane | ND | 10 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Vinyl acetate | ND | 5.0 | ug/l | | | | | | | |
| Vinyl chloride | ND | 5.0 | ug/l | | | | | | | |
| Xylenes, Total | ND | 10 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *24.0* | | *ug/l* | *25.0* | | *96.0* | *70-160* | | | |
| *Surrogate: Toluene-d8* | *25.0* | | *ug/l* | *25.0* | | *100* | *75-140* | | | |

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METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1303 Extracted: 07/13/00** | | | | | | | | | | |
| **Blank Analyzed: 07/13/00 (P0G1303-BLK1)** | | | | | | | | | | |
| *Surrogate: 4-Bromofluorobenzene* | *23.0* | | *ug/l* | *25.0* | | *92.0* | *75-135* | | | |
| **LCS Analyzed: 07/13/00 (P0G1303-BS1)** | | | | | | | | | | |
| **Acetone** | **26.0** | 20 | ug/l | 25.0 | | 104 | 35-150 | | | |
| **Benzene** | **23.3** | 2.0 | ug/l | 25.0 | | 93.2 | 65-155 | | | |
| **Bromobenzene** | **22.4** | 5.0 | ug/l | 25.0 | | 89.6 | 65-150 | | | |
| **Bromochloromethane** | **24.7** | 5.0 | ug/l | 25.0 | | 98.8 | 60-155 | | | |
| **Bromodichloromethane** | **24.2** | 2.0 | ug/l | 25.0 | | 96.8 | 60-155 | | | |
| **Bromoform** | **22.5** | 5.0 | ug/l | 25.0 | | 90.0 | 25-160 | | | |
| **Bromomethane** | **20.0** | 5.0 | ug/l | 25.0 | | 80.0 | 55-170 | | | |
| **2-Butanone (MEK)** | **21.7** | 10 | ug/l | 25.0 | | 86.8 | 35-165 | | | |
| **n-Butylbenzene** | **23.1** | 5.0 | ug/l | 25.0 | | 92.4 | 65-140 | | | |
| **sec-Butylbenzene** | **22.9** | 5.0 | ug/l | 25.0 | | 91.6 | 60-145 | | | |
| **tert-Butylbenzene** | **22.7** | 5.0 | ug/l | 25.0 | | 90.8 | 65-145 | | | |
| **Carbon Disulfide** | **30.9** | 5.0 | ug/l | 25.0 | | 124 | 65-155 | | | |
| **Carbon tetrachloride** | **23.5** | 5.0 | ug/l | 25.0 | | 94.0 | 65-150 | | | |
| **Chlorobenzene** | **23.7** | 2.0 | ug/l | 25.0 | | 94.8 | 65-145 | | | |
| **Chloroethane** | **19.3** | 5.0 | ug/l | 25.0 | | 77.2 | 65-165 | | | |
| **Chloroform** | **24.4** | 2.0 | ug/l | 25.0 | | 97.6 | 70-130 | | | |
| **Chloromethane** | **15.3** | 5.0 | ug/l | 25.0 | | 61.2 | 60-165 | | | |
| **2-Chlorotoluene** | **22.2** | 5.0 | ug/l | 25.0 | | 88.8 | 65-145 | | | |
| **4-Chlorotoluene** | **22.2** | 5.0 | ug/l | 25.0 | | 88.8 | 70-145 | | | |
| **Dibromochloromethane** | **26.0** | 2.0 | ug/l | 25.0 | | 104 | 55-155 | | | |
| **1,2-Dibromo-3-chloropropane** | **19.5** | 5.0 | ug/l | 25.0 | | 78.0 | 40-150 | | | |
| **1,2-Dibromoethane (EDB)** | **23.6** | 2.0 | ug/l | 25.0 | | 94.4 | 55-155 | | | |
| **Dibromomethane** | **23.5** | 2.0 | ug/l | 25.0 | | 94.0 | 60-155 | | | |
| **1,2-Dichlorobenzene** | **22.4** | 2.0 | ug/l | 25.0 | | 89.6 | 65-140 | | | |
| **1,3-Dichlorobenzene** | **22.6** | 2.0 | ug/l | 25.0 | | 90.4 | 65-145 | | | |
| **1,4-Dichlorobenzene** | **23.1** | 2.0 | ug/l | 25.0 | | 92.4 | 65-140 | | | |
| **Dichlorodifluoromethane** | **13.0** | 5.0 | ug/l | 25.0 | | 52.0 | 30-190 | | | |
| **1,1-Dichloroethane** | **24.6** | 2.0 | ug/l | 25.0 | | 98.4 | 70-130 | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150
Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1303 Extracted: 07/13/00** | | | | | | | | | | |
| **LCS Analyzed: 07/13/00 (P0G1303-BS1)** | | | | | | | | | | |
| 1,2-Dichloroethane | 24.5 | 2.0 | ug/l | 25.0 | | 98.0 | 70-130 | | | |
| 1,1-Dichloroethene | 25.0 | 5.0 | ug/l | 25.0 | | 100 | 70-130 | | | |
| cis-1,2-Dichloroethene | 24.0 | 2.0 | ug/l | 25.0 | | 96.0 | 70-130 | | | |
| trans-1,2-Dichloroethene | 24.2 | 2.0 | ug/l | 25.0 | | 96.8 | 55-175 | | | |
| 1,2-Dichloropropane | 24.9 | 2.0 | ug/l | 25.0 | | 99.6 | 70-130 | | | |
| 1,3-Dichloropropane | 23.5 | 2.0 | ug/l | 25.0 | | 94.0 | 60-150 | | | |
| 2,2-Dichloropropane | 24.4 | 2.0 | ug/l | 25.0 | | 97.6 | 15-200 | | | |
| 1,1-Dichloropropene | 22.8 | 2.0 | ug/l | 25.0 | | 91.2 | 65-150 | | | |
| cis-1,3-Dichloropropene | 23.0 | 2.0 | ug/l | 25.0 | | 92.0 | 65-150 | | | |
| trans-1,3-Dichloropropene | 23.2 | 2.0 | ug/l | 25.0 | | 92.8 | 60-150 | | | |
| Ethylbenzene | 23.1 | 2.0 | ug/l | 25.0 | | 92.4 | 60-150 | | | |
| Hexachlorobutadiene | 21.6 | 5.0 | ug/l | 25.0 | | 86.4 | 55-150 | | | |
| 2-Hexanone | 22.9 | 10 | ug/l | 25.0 | | 91.6 | 35-165 | | | |
| Iodomethane | 27.9 | 2.0 | ug/l | 25.0 | | 112 | 65-160 | | | |
| Isopropylbenzene | 24.5 | 2.0 | ug/l | 25.0 | | 98.0 | 65-145 | | | |
| p-Isopropyltoluene | 22.7 | 2.0 | ug/l | 25.0 | | 90.8 | 60-145 | | | |
| Methylene chloride | 25.8 | 5.0 | ug/l | 25.0 | | 103 | 65-160 | | | |
| 4-Methyl-2-pentatnone (MIBK) | 23.0 | 10 | ug/l | 25.0 | | 92.0 | 40-165 | | | |
| Methyl-tert-butyl Ether (MTBE) | 25.3 | 5.0 | ug/l | 25.0 | | 101 | 60-160 | | | |
| Naphthalene | 21.9 | 5.0 | ug/l | 25.0 | | 87.6 | 50-150 | | | |
| n-Propylbenzene | 23.3 | 2.0 | ug/l | 25.0 | | 93.2 | 70-145 | | | |
| Styrene | 24.0 | 2.0 | ug/l | 25.0 | | 96.0 | 65-150 | | | |
| 1,1,1,2-Tetrachloroethane | 25.5 | 5.0 | ug/l | 25.0 | | 102 | 60-155 | | | |
| 1,1,2,2-Tetrachloroethane | 24.1 | 2.0 | ug/l | 25.0 | | 96.4 | 65-150 | | | |
| Tetrachloroethene | 23.7 | 2.0 | ug/l | 25.0 | | 94.8 | 70-130 | | | |
| Toluene | 23.5 | 2.0 | ug/l | 25.0 | | 94.0 | 75-120 | | | |
| 1,2,3-Trichlorobenzene | 22.6 | 5.0 | ug/l | 25.0 | | 90.4 | 55-150 | | | |
| 1,2,4-Trichlorobenzene | 22.6 | 5.0 | ug/l | 25.0 | | 90.4 | 60-145 | | | |
| 1,1,1-Trichloroethane | 25.4 | 2.0 | ug/l | 25.0 | | 102 | 70-130 | | | |
| 1,1,2-Trichloroethane | 23.6 | 2.0 | ug/l | 25.0 | | 94.4 | 70-130 | | | |

Julie M. Slocum
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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150
Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1303 Extracted: 07/13/00** | | | | | | | | | | |
| **LCS Analyzed: 07/13/00 (P0G1303-BS1)** | | | | | | | | | | |
| **Trichloroethene** | **22.9** | 2.0 | ug/l | 25.0 | | 91.6 | 75-120 | | | |
| **Trichlorofluoromethane** | **15.3** | 5.0 | ug/l | 25.0 | | 61.2 | 10-200 | | | |
| **1,2,3-Trichloropropane** | **21.8** | 10 | ug/l | 25.0 | | 87.2 | 55-150 | | | |
| **1,2,4-Trimethylbenzene** | **23.3** | 2.0 | ug/l | 25.0 | | 93.2 | 65-150 | | | |
| **1,3,5-Trimethylbenzene** | **22.7** | 2.0 | ug/l | 25.0 | | 90.8 | 65-150 | | | |
| **Vinyl acetate** | **28.0** | 5.0 | ug/l | 25.0 | | 112 | 50-160 | | | |
| **Vinyl chloride** | **17.1** | 5.0 | ug/l | 25.0 | | 68.4 | 25-200 | | | |
| **Xylenes, Total** | **70.9** | 10 | ug/l | 75.0 | | 94.5 | 65-145 | | | |
| *Surrogate: Dibromofluoromethane* | *24.2* | | *ug/l* | *25.0* | | *96.8* | *70-160* | | | |
| *Surrogate: Toluene-d8* | *24.4* | | *ug/l* | *25.0* | | *97.6* | *75-140* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *22.5* | | *ug/l* | *25.0* | | *90.0* | *75-135* | | | |
| **LCS Dup Analyzed: 07/13/00 (P0G1303-BSD1)** | | | | | | | | | | |
| **Acetone** | **22.6** | 20 | ug/l | 25.0 | | 90.4 | 35-150 | 14.0 | 20 | |
| **Benzene** | **22.3** | 2.0 | ug/l | 25.0 | | 89.2 | 35-155 | 4.39 | 20 | |
| **Bromobenzene** | **22.0** | 5.0 | ug/l | 25.0 | | 88.0 | 65-150 | 1.80 | 20 | |
| **Bromochloromethane** | **22.8** | 5.0 | ug/l | 25.0 | | 91.2 | 60-155 | 8.00 | 20 | |
| **Bromodichloromethane** | **24.6** | 2.0 | ug/l | 25.0 | | 98.4 | 60-155 | 1.64 | 20 | |
| **Bromoform** | **24.2** | 5.0 | ug/l | 25.0 | | 96.8 | 25-160 | 7.28 | 20 | |
| **Bromomethane** | **17.1** | 5.0 | ug/l | 25.0 | | 68.4 | 55-170 | 15.6 | 20 | |
| **2-Butanone (MEK)** | **20.8** | 10 | ug/l | 25.0 | | 83.2 | 35-165 | 4.24 | 20 | |
| **n-Butylbenzene** | **22.8** | 5.0 | ug/l | 25.0 | | 91.2 | 65-140 | 1.31 | 20 | |
| **sec-Butylbenzene** | **22.9** | 5.0 | ug/l | 25.0 | | 91.6 | 60-145 | 0 | 20 | |
| **tert-Butylbenzene** | **22.4** | 5.0 | ug/l | 25.0 | | 89.6 | 65-145 | 1.33 | 20 | |
| **Carbon Disulfide** | **28.6** | 5.0 | ug/l | 25.0 | | 114 | 65-155 | 7.73 | 20 | |
| **Carbon tetrachloride** | **25.7** | 5.0 | ug/l | 25.0 | | 103 | 65-150 | 8.94 | 20 | |
| **Chlorobenzene** | **23.7** | 2.0 | ug/l | 25.0 | | 94.8 | 65-145 | 0 | 20 | |
| **Chloroethane** | **17.7** | 5.0 | ug/l | 25.0 | | 70.8 | 65-165 | 8.65 | 20 | |
| **Chloroform** | **23.1** | 2.0 | ug/l | 25.0 | | 92.4 | 70-130 | 5.47 | 20 | |
| **Chloromethane** | **13.4** | 5.0 | ug/l | 25.0 | | 53.6 | 60-165 | 13.2 | 20 | L3 |
| **2-Chlorotoluene** | **22.0** | 5.0 | ug/l | 25.0 | | 88.0 | 65-145 | 0.905 | 20 | |

Julie M. Slocum
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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150
Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

## METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1303 Extracted: 07/13/00** | | | | | | | | | | |
| **LCS Dup Analyzed: 07/13/00 (P0G1303-BSD1)** | | | | | | | | | | |
| 4-Chlorotoluene | 22.0 | 5.0 | ug/l | 25.0 | | 88.0 | 70-145 | 0.905 | 20 | |
| Dibromochloromethane | 26.9 | 2.0 | ug/l | 25.0 | | 108 | 55-155 | 3.40 | 20 | |
| 1,2-Dibromo-3-chloropropane | 20.0 | 5.0 | ug/l | 25.0 | | 80.0 | 40-150 | 2.53 | 20 | |
| 1,2-Dibromoethane (EDB) | 23.8 | 2.0 | ug/l | 25.0 | | 95.2 | 55-155 | 0.844 | 20 | |
| Dibromomethane | 22.7 | 2.0 | ug/l | 25.0 | | 90.8 | 60-155 | 3.46 | 20 | |
| 1,2-Dichlorobenzene | 22.2 | 2.0 | ug/l | 25.0 | | 88.8 | 65-140 | 0.897 | 20 | |
| 1,3-Dichlorobenzene | 22.1 | 2.0 | ug/l | 25.0 | | 88.4 | 65-145 | 2.24 | 20 | |
| 1,4-Dichlorobenzene | 22.9 | 2.0 | ug/l | 25.0 | | 91.6 | 65-140 | 0.870 | 20 | |
| Dichlorodifluoromethane | 11.2 | 5.0 | ug/l | 25.0 | | 44.8 | 30-190 | 14.9 | 20 | |
| 1,1-Dichloroethane | 22.3 | 2.0 | ug/l | 25.0 | | 89.2 | 70-130 | 9.81 | 20 | |
| 1,2-Dichloroethane | 22.4 | 2.0 | ug/l | 25.0 | | 89.6 | 70-130 | 8.96 | 20 | |
| 1,1-Dichloroethene | 22.9 | 5.0 | ug/l | 25.0 | | 91.6 | 70-130 | 8.77 | 20 | |
| cis-1,2-Dichloroethene | 22.2 | 2.0 | ug/l | 25.0 | | 88.8 | 70-130 | 7.79 | 20 | |
| trans-1,2-Dichloroethene | 22.7 | 2.0 | ug/l | 25.0 | | 90.8 | 55-175 | 6.40 | 20 | |
| 1,2-Dichloropropane | 23.0 | 2.0 | ug/l | 25.0 | | 92.0 | 70-130 | 7.93 | 20 | |
| 1,3-Dichloropropane | 22.9 | 2.0 | ug/l | 25.0 | | 91.6 | 60-150 | 2.59 | 20 | |
| 2,2-Dichloropropane | 28.0 | 2.0 | ug/l | 25.0 | | 112 | 15-200 | 13.7 | 20 | |
| 1,1-Dichloropropene | 21.6 | 2.0 | ug/l | 25.0 | | 86.4 | 65-150 | 5.41 | 20 | |
| cis-1,3-Dichloropropene | 23.1 | 2.0 | ug/l | 25.0 | | 92.4 | 65-150 | 0.434 | 20 | |
| trans-1,3-Dichloropropene | 24.5 | 2.0 | ug/l | 25.0 | | 98.0 | 60-150 | 5.45 | 20 | |
| Ethylbenzene | 22.7 | 2.0 | ug/l | 25.0 | | 90.8 | 60-150 | 1.75 | 20 | |
| Hexachlorobutadiene | 24.8 | 5.0 | ug/l | 25.0 | | 99.2 | 55-150 | 13.8 | 20 | |
| 2-Hexanone | 23.4 | 10 | ug/l | 25.0 | | 93.6 | 35-165 | 2.16 | 20 | |
| Iodomethane | 29.9 | 2.0 | ug/l | 25.0 | | 120 | 65-160 | 6.92 | 20 | |
| Isopropylbenzene | 24.0 | 2.0 | ug/l | 25.0 | | 96.0 | 65-145 | 2.06 | 20 | |
| p-Isopropyltoluene | 22.6 | 2.0 | ug/l | 25.0 | | 90.4 | 60-145 | 0.442 | 20 | |
| Methylene chloride | 25.2 | 5.0 | ug/l | 25.0 | | 101 | 65-160 | 2.35 | 20 | |
| 4-Methyl-2-pentatnone (MIBK) | 22.6 | 10 | ug/l | 25.0 | | 90.4 | 40-165 | 1.75 | 20 | |
| Methyl-tert-butyl Ether (MTBE) | 24.1 | 5.0 | ug/l | 25.0 | | 96.4 | 60-160 | 4.86 | 20 | |
| Naphthalene | 21.0 | 5.0 | ug/l | 25.0 | | 84.0 | 50-150 | 4.20 | 20 | |

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4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150
Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1303 Extracted: 07/13/00** | | | | | | | | | | |
| **LCS Dup Analyzed: 07/13/00 (P0G1303-BSD1)** | | | | | | | | | | |
| **n-Propylbenzene** | **23.3** | 2.0 | ug/l | 25.0 | | 93.2 | 70-145 | 0 | 20 | |
| **Styrene** | **23.7** | 2.0 | ug/l | 25.0 | | 94.8 | 65-150 | 1.26 | 20 | |
| **1,1,1,2-Tetrachloroethane** | **26.3** | 5.0 | ug/l | 25.0 | | 105 | 60-155 | 3.09 | 20 | |
| **1,1,2,2-Tetrachloroethane** | **23.4** | 2.0 | ug/l | 25.0 | | 93.6 | 65-150 | 2.95 | 20 | |
| **Tetrachloroethene** | **24.0** | 2.0 | ug/l | 25.0 | | 96.0 | 70-130 | 1.26 | 20 | |
| **Toluene** | **23.2** | 2.0 | ug/l | 25.0 | | 92.8 | 75-120 | 1.28 | 20 | |
| **1,2,3-Trichlorobenzene** | **22.9** | 5.0 | ug/l | 25.0 | | 91.6 | 55-150 | 1.32 | 20 | |
| **1,2,4-Trichlorobenzene** | **22.9** | 5.0 | ug/l | 25.0 | | 91.6 | 60-145 | 1.32 | 20 | |
| **1,1,1-Trichloroethane** | **27.0** | 2.0 | ug/l | 25.0 | | 108 | 70-130 | 6.11 | 20 | |
| **1,1,2-Trichloroethane** | **23.3** | 2.0 | ug/l | 25.0 | | 93.2 | 70-130 | 1.28 | 20 | |
| **Trichloroethene** | **22.6** | 2.0 | ug/l | 25.0 | | 90.4 | 75-120 | 1.32 | 20 | |
| **Trichlorofluoromethane** | **13.8** | 5.0 | ug/l | 25.0 | | 55.2 | 10-200 | 10.3 | 20 | |
| **1,2,3-Trichloropropane** | **22.0** | 10 | ug/l | 25.0 | | 88.0 | 55-150 | 0.913 | 20 | |
| **1,2,4-Trimethylbenzene** | **23.1** | 2.0 | ug/l | 25.0 | | 92.4 | 65-150 | 0.862 | 20 | |
| **1,3,5-Trimethylbenzene** | **22.4** | 2.0 | ug/l | 25.0 | | 89.6 | 65-150 | 1.33 | 20 | |
| **Vinyl acetate** | **28.0** | 5.0 | ug/l | 25.0 | | 112 | 50-160 | 0 | 20 | |
| **Vinyl chloride** | **16.1** | 5.0 | ug/l | 25.0 | | 64.4 | 25-200 | 6.02 | 20 | |
| **Xylenes, Total** | **69.4** | 10 | ug/l | 75.0 | | 92.5 | 65-145 | 2.14 | 20 | |
| *Surrogate: Dibromofluoromethane* | *23.6* | | *ug/l* | *25.0* | | *94.4* | *70-160* | | | |
| *Surrogate: Toluene-d8* | *24.4* | | *ug/l* | *25.0* | | *97.6* | *75-140* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *22.7* | | *ug/l* | *25.0* | | *90.8* | *75-135* | | | |
| **Matrix Spike Analyzed: 07/13/00 (P0G1303-MS1)** | | | | | **Source: PJG0053-03** | | | | | |
| **Acetone** | **22.5** | 20 | ug/l | 25.0 | ND | 90.0 | 35-150 | | | |
| **Benzene** | **22.7** | 2.0 | ug/l | 25.0 | ND | 90.8 | 65-155 | | | |
| **Bromobenzene** | **21.9** | 5.0 | ug/l | 25.0 | ND | 87.6 | 65-150 | | | |
| **Bromochloromethane** | **24.3** | 5.0 | ug/l | 25.0 | ND | 97.2 | 60-155 | | | |
| **Bromodichloromethane** | **24.7** | 2.0 | ug/l | 25.0 | ND | 98.8 | 60-155 | | | |
| **Bromoform** | **22.1** | 5.0 | ug/l | 25.0 | ND | 88.4 | 25-160 | | | |
| **Bromomethane** | **19.0** | 5.0 | ug/l | 25.0 | ND | 76.0 | 55-170 | | | |
| **2-Butanone (MEK)** | **20.2** | 10 | ug/l | 25.0 | ND | 80.8 | 35-165 | | | |

Julie M. Slocum
Project Manager



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Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1303 Extracted: 07/13/00** | | | | | | | | | | |
| **Matrix Spike Analyzed: 07/13/00 (P0G1303-MS1)** | | | | | Source: PJG0053-03 | | | | | |
| n-Butylbenzene | 23.3 | 5.0 | ug/l | 25.0 | ND | 93.2 | 65-140 | | | |
| sec-Butylbenzene | 22.9 | 5.0 | ug/l | 25.0 | ND | 91.6 | 60-145 | | | |
| tert-Butylbenzene | 22.6 | 5.0 | ug/l | 25.0 | ND | 90.4 | 65-145 | | | |
| Carbon Disulfide | 30.3 | 5.0 | ug/l | 25.0 | ND | 121 | 65-155 | | | |
| Carbon tetrachloride | 23.9 | 5.0 | ug/l | 25.0 | ND | 95.6 | 65-150 | | | |
| Chlorobenzene | 23.4 | 2.0 | ug/l | 25.0 | ND | 93.6 | 65-145 | | | |
| Chloroethane | 18.6 | 5.0 | ug/l | 25.0 | ND | 74.4 | 65-165 | | | |
| Chloroform | 24.1 | 2.0 | ug/l | 25.0 | ND | 96.4 | 70-130 | | | |
| Chloromethane | 15.1 | 5.0 | ug/l | 25.0 | ND | 60.4 | 60-165 | | | L3 |
| 2-Chlorotoluene | 21.8 | 5.0 | ug/l | 25.0 | ND | 87.2 | 65-145 | | | |
| 4-Chlorotoluene | 22.3 | 5.0 | ug/l | 25.0 | ND | 89.2 | 70-145 | | | |
| Dibromochloromethane | 26.5 | 2.0 | ug/l | 25.0 | ND | 106 | 55-155 | | | |
| 1,2-Dibromo-3-chloropropane | 19.1 | 5.0 | ug/l | 25.0 | ND | 76.4 | 40-150 | | | |
| 1,2-Dibromoethane (EDB) | 23.4 | 2.0 | ug/l | 25.0 | ND | 93.6 | 55-155 | | | |
| Dibromomethane | 22.8 | 2.0 | ug/l | 25.0 | ND | 91.2 | 60-155 | | | |
| 1,2-Dichlorobenzene | 22.1 | 2.0 | ug/l | 25.0 | ND | 88.4 | 65-140 | | | |
| 1,3-Dichlorobenzene | 22.4 | 2.0 | ug/l | 25.0 | ND | 89.6 | 65-145 | | | |
| 1,4-Dichlorobenzene | 22.9 | 2.0 | ug/l | 25.0 | ND | 91.6 | 65-140 | | | |
| Dichlorodifluoromethane | 12.6 | 5.0 | ug/l | 25.0 | ND | 50.4 | 30-190 | | | |
| 1,1-Dichloroethane | 24.1 | 2.0 | ug/l | 25.0 | ND | 96.4 | 70-130 | | | |
| 1,2-Dichloroethane | 23.7 | 2.0 | ug/l | 25.0 | ND | 94.8 | 70-130 | | | |
| 1,1-Dichloroethene | 24.7 | 5.0 | ug/l | 25.0 | ND | 98.8 | 55-125 | | | |
| cis-1,2-Dichloroethene | 23.7 | 2.0 | ug/l | 25.0 | ND | 94.8 | 70-130 | | | |
| trans-1,2-Dichloroethene | 23.5 | 2.0 | ug/l | 25.0 | ND | 94.0 | 55-175 | | | |
| 1,2-Dichloropropane | 24.7 | 2.0 | ug/l | 25.0 | ND | 98.8 | 70-130 | | | |
| 1,3-Dichloropropane | 23.4 | 2.0 | ug/l | 25.0 | ND | 93.6 | 60-150 | | | |
| 2,2-Dichloropropane | 24.7 | 2.0 | ug/l | 25.0 | ND | 98.8 | 15-200 | | | |
| 1,1-Dichloropropene | 22.5 | 2.0 | ug/l | 25.0 | ND | 90.0 | 65-150 | | | |
| cis-1,3-Dichloropropene | 22.6 | 2.0 | ug/l | 25.0 | ND | 90.4 | 65-150 | | | |
| trans-1,3-Dichloropropene | 23.6 | 2.0 | ug/l | 25.0 | ND | 94.4 | 60-150 | | | |

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150
Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

## METHOD BLANK QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1303 Extracted: 07/13/00** | | | | | | | | | | |
| **Matrix Spike Analyzed: 07/13/00 (P0G1303-MS1)** | | | | | **Source: PJG0053-03** | | | | | |
| **Ethylbenzene** | **23.0** | 2.0 | ug/l | 25.0 | ND | 92.0 | 60-150 | | | |
| **Hexachlorobutadiene** | **25.1** | 5.0 | ug/l | 25.0 | ND | 100 | 55-150 | | | |
| **2-Hexanone** | **22.0** | 10 | ug/l | 25.0 | ND | 88.0 | 35-165 | | | |
| **Iodomethane** | **27.7** | 2.0 | ug/l | 25.0 | ND | 111 | 65-160 | | | |
| **Isopropylbenzene** | **24.2** | 2.0 | ug/l | 25.0 | ND | 96.8 | 65-145 | | | |
| **p-Isopropyltoluene** | **22.7** | 2.0 | ug/l | 25.0 | ND | 90.8 | 60-145 | | | |
| **Methylene chloride** | **25.7** | 5.0 | ug/l | 25.0 | ND | 96.4 | 65-160 | | | |
| **4-Methyl-2-pentatnone (MIBK)** | **21.6** | 10 | ug/l | 25.0 | ND | 86.4 | 40-165 | | | |
| **Methyl-tert-butyl Ether (MTBE)** | **24.8** | 5.0 | ug/l | 25.0 | ND | 99.2 | 60-160 | | | |
| **Naphthalene** | **21.4** | 5.0 | ug/l | 25.0 | ND | 85.6 | 50-150 | | | |
| **n-Propylbenzene** | **23.4** | 2.0 | ug/l | 25.0 | ND | 93.6 | 70-145 | | | |
| **Styrene** | **17.2** | 2.0 | ug/l | 25.0 | ND | 68.8 | 65-150 | | | |
| **1,1,1,2-Tetrachloroethane** | **25.7** | 5.0 | ug/l | 25.0 | ND | 103 | 60-155 | | | |
| **1,1,2,2-Tetrachloroethane** | **23.2** | 2.0 | ug/l | 25.0 | ND | 92.8 | 65-150 | | | |
| **Tetrachloroethene** | **23.6** | 2.0 | ug/l | 25.0 | ND | 94.4 | 70-130 | | | |
| **Toluene** | **23.3** | 2.0 | ug/l | 25.0 | ND | 93.2 | 75-120 | | | |
| **1,2,3-Trichlorobenzene** | **22.8** | 5.0 | ug/l | 25.0 | ND | 91.2 | 55-150 | | | |
| **1,2,4-Trichlorobenzene** | **22.9** | 5.0 | ug/l | 25.0 | ND | 91.6 | 60-145 | | | |
| **1,1,1-Trichloroethane** | **25.0** | 2.0 | ug/l | 25.0 | ND | 100 | 70-130 | | | |
| **1,1,2-Trichloroethane** | **23.4** | 2.0 | ug/l | 25.0 | ND | 93.6 | 70-130 | | | |
| **Trichloroethene** | **23.0** | 2.0 | ug/l | 25.0 | ND | 92.0 | 75-120 | | | |
| **Trichlorofluoromethane** | **14.8** | 5.0 | ug/l | 25.0 | ND | 59.2 | 10-200 | | | |
| **1,2,3-Trichloropropane** | **20.6** | 10 | ug/l | 25.0 | ND | 82.4 | 55-150 | | | |
| **1,2,4-Trimethylbenzene** | **22.9** | 2.0 | ug/l | 25.0 | ND | 91.6 | 65-150 | | | |
| **1,3,5-Trimethylbenzene** | **22.4** | 2.0 | ug/l | 25.0 | ND | 89.6 | 65-150 | | | |
| **Vinyl acetate** | **23.3** | 5.0 | ug/l | 25.0 | ND | 93.2 | 50-160 | | | |
| **Vinyl chloride** | **16.4** | 5.0 | ug/l | 25.0 | ND | 65.6 | 25-200 | | | |
| **Xylenes, Total** | **69.8** | 10 | ug/l | 75.0 | ND | 93.1 | 65-145 | | | |
| *Surrogate: Dibromofluoromethane* | *24.5* | | *ug/l* | *25.0* | | *98.0* | *70-160* | | | |
| *Surrogate: Toluene-d8* | *24.5* | | *ug/l* | *25.0* | | *98.0* | *75-140* | | | |

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Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150

Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

## METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1303 Extracted: 07/13/00** | | | | | | | | | | |
| **Matrix Spike Analyzed: 07/13/00 (P0G1303-MS1)** | | | | | Source: PJG0053-03 | | | | | |
| *Surrogate: 4-Bromofluorobenzene* | *22.4* | | *ug/l* | *25.0* | | *89.6* | *75-135* | | | |
| **Matrix Spike Dup Analyzed: 07/13/00 (P0G1303-MSD1)** | | | | | Source: PJG0053-03 | | | | | |
| **Acetone** | **23.8** | 20 | ug/l | 25.0 | ND | 95.2 | 35-150 | 5.62 | 20 | |
| **Benzene** | **23.0** | 2.0 | ug/l | 25.0 | ND | 92.0 | 65-155 | 1.31 | 20 | |
| **Bromobenzene** | **22.0** | 5.0 | ug/l | 25.0 | ND | 88.0 | 65-150 | 0.456 | 20 | |
| **Bromochloromethane** | **24.5** | 5.0 | ug/l | 25.0 | ND | 98.0 | 60-155 | 0.820 | 20 | |
| **Bromodichloromethane** | **24.7** | 2.0 | ug/l | 25.0 | ND | 98.8 | 60-155 | 0 | 20 | |
| **Bromoform** | **23.6** | 5.0 | ug/l | 25.0 | ND | 94.4 | 25-160 | 6.56 | 20 | |
| **Bromomethane** | **17.6** | 5.0 | ug/l | 25.0 | ND | 70.4 | 55-170 | 7.65 | 20 | |
| **2-Butanone (MEK)** | **21.2** | 10 | ug/l | 25.0 | ND | 84.8 | 35-165 | 4.83 | 20 | |
| **n-Butylbenzene** | **23.0** | 5.0 | ug/l | 25.0 | ND | 92.0 | 65-140 | 1.30 | 20 | |
| **sec-Butylbenzene** | **22.9** | 5.0 | ug/l | 25.0 | ND | 91.6 | 60-145 | 0 | 20 | |
| **tert-Butylbenzene** | **22.3** | 5.0 | ug/l | 25.0 | ND | 89.2 | 65-145 | 1.34 | 20 | |
| **Carbon Disulfide** | **30.5** | 5.0 | ug/l | 25.0 | ND | 122 | 65-155 | 0.658 | 20 | |
| **Carbon tetrachloride** | **24.6** | 5.0 | ug/l | 25.0 | ND | 98.4 | 65-150 | 2.89 | 20 | |
| **Chlorobenzene** | **23.9** | 2.0 | ug/l | 25.0 | ND | 95.6 | 65-145 | 2.11 | 20 | |
| **Chloroethane** | **17.7** | 5.0 | ug/l | 25.0 | ND | 70.8 | 65-165 | 4.96 | 20 | |
| **Chloroform** | **24.3** | 2.0 | ug/l | 25.0 | ND | 97.2 | 70-130 | 0.826 | 20 | |
| **Chloromethane** | **14.7** | 5.0 | ug/l | 25.0 | ND | 58.8 | 60-165 | 2.68 | 20 | L3,M2 |
| **2-Chlorotoluene** | **22.0** | 5.0 | ug/l | 25.0 | ND | 88.0 | 65-145 | 0.913 | 20 | |
| **4-Chlorotoluene** | **22.0** | 5.0 | ug/l | 25.0 | ND | 88.0 | 70-145 | 1.35 | 20 | |
| **Dibromochloromethane** | **27.0** | 2.0 | ug/l | 25.0 | ND | 108 | 55-155 | 1.87 | 20 | |
| **1,2-Dibromo-3-chloropropane** | **12.4** | 5.0 | ug/l | 25.0 | ND | 49.6 | 40-150 | 42.5 | 20 | R2 |
| **1,2-Dibromoethane (EDB)** | **24.1** | 2.0 | ug/l | 25.0 | ND | 96.4 | 55-155 | 2.95 | 20 | |
| **Dibromomethane** | **23.2** | 2.0 | ug/l | 25.0 | ND | 92.8 | 60-155 | 1.74 | 20 | |
| **1,2-Dichlorobenzene** | **22.4** | 2.0 | ug/l | 25.0 | ND | 89.6 | 65-140 | 1.35 | 20 | |
| **1,3-Dichlorobenzene** | **22.3** | 2.0 | ug/l | 25.0 | ND | 89.2 | 65-145 | 0.447 | 20 | |
| **1,4-Dichlorobenzene** | **23.0** | 2.0 | ug/l | 25.0 | ND | 92.0 | 65-140 | 0.436 | 20 | |
| **Dichlorodifluoromethane** | **11.2** | 5.0 | ug/l | 25.0 | ND | 44.8 | 30-190 | 11.8 | 20 | |
| **1,1-Dichloroethane** | **24.2** | 2.0 | ug/l | 25.0 | ND | 96.8 | 70-130 | 0.414 | 20 | |

Julie M. Slocum
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4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150
Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1303 Extracted: 07/13/00** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 07/13/00 (P0G1303-MSD1)** | | | | | **Source: PJG0053-03** | | | | | |
| **1,2-Dichloroethane** | **23.9** | 2.0 | ug/l | 25.0 | ND | 95.6 | 70-130 | 0.840 | 20 | |
| **1,1-Dichloroethene** | **24.5** | 5.0 | ug/l | 25.0 | ND | 98.0 | 55-125 | 0.813 | 20 | |
| **cis-1,2-Dichloroethene** | **24.0** | 2.0 | ug/l | 25.0 | ND | 96.0 | 70-130 | 1.26 | 20 | |
| **trans-1,2-Dichloroethene** | **23.8** | 2.0 | ug/l | 25.0 | ND | 95.2 | 55-175 | 1.27 | 20 | |
| **1,2-Dichloropropane** | **25.0** | 2.0 | ug/l | 25.0 | ND | 100 | 70-130 | 1.21 | 20 | |
| **1,3-Dichloropropane** | **23.6** | 2.0 | ug/l | 25.0 | ND | 94.4 | 60-150 | 0.851 | 20 | |
| **2,2-Dichloropropane** | **24.2** | 2.0 | ug/l | 25.0 | ND | 96.8 | 15-200 | 2.04 | 20 | |
| **1,1-Dichloropropene** | **22.6** | 2.0 | ug/l | 25.0 | ND | 90.4 | 65-150 | 0.443 | 20 | |
| **cis-1,3-Dichloropropene** | **22.7** | 2.0 | ug/l | 25.0 | ND | 90.8 | 65-150 | 0.442 | 20 | |
| **trans-1,3-Dichloropropene** | **23.6** | 2.0 | ug/l | 25.0 | ND | 94.4 | 60-150 | 0 | 20 | |
| **Ethylbenzene** | **23.1** | 2.0 | ug/l | 25.0 | ND | 92.4 | 60-150 | 0.434 | 20 | |
| **Hexachlorobutadiene** | **24.7** | 5.0 | ug/l | 25.0 | ND | 98.8 | 55-150 | 1.61 | 20 | |
| **2-Hexanone** | **22.4** | 10 | ug/l | 25.0 | ND | 89.6 | 35-165 | 1.80 | 20 | |
| **Iodomethane** | **26.5** | 2.0 | ug/l | 25.0 | ND | 106 | 65-160 | 4.43 | 20 | |
| **Isopropylbenzene** | **24.4** | 2.0 | ug/l | 25.0 | ND | 97.6 | 65-145 | 0.823 | 20 | |
| **p-Isopropyltoluene** | **22.6** | 2.0 | ug/l | 25.0 | ND | 90.4 | 60-145 | 0.442 | 20 | |
| **Methylene chloride** | **25.6** | 5.0 | ug/l | 25.0 | ND | 96.0 | 65-160 | 0.390 | 20 | |
| **4-Methyl-2-pentatnone (MIBK)** | **22.5** | 10 | ug/l | 25.0 | ND | 90.0 | 40-165 | 4.08 | 20 | |
| **Methyl-tert-butyl Ether (MTBE)** | **25.1** | 5.0 | ug/l | 25.0 | ND | 100 | 60-160 | 1.20 | 20 | |
| Naphthalene | ND | 5.0 | ug/l | 25.0 | ND | 17.0 | 50-150 | 134 | 20 | R2 |
| **n-Propylbenzene** | **23.1** | 2.0 | ug/l | 25.0 | ND | 92.4 | 70-145 | 1.29 | 20 | |
| **Styrene** | **7.95** | 2.0 | ug/l | 25.0 | ND | 31.8 | 65-150 | 73.6 | 20 | R2 |
| **1,1,1,2-Tetrachloroethane** | **26.1** | 5.0 | ug/l | 25.0 | ND | 104 | 60-155 | 1.54 | 20 | |
| **1,1,2,2-Tetrachloroethane** | **13.1** | 2.0 | ug/l | 25.0 | ND | 52.4 | 65-150 | 55.6 | 20 | R2 |
| **Tetrachloroethene** | **24.0** | 2.0 | ug/l | 25.0 | ND | 96.0 | 70-130 | 1.68 | 20 | |
| **Toluene** | **23.8** | 2.0 | ug/l | 25.0 | ND | 95.2 | 75-120 | 2.12 | 20 | |
| **1,2,3-Trichlorobenzene** | **20.6** | 5.0 | ug/l | 25.0 | ND | 82.4 | 55-150 | 10.1 | 20 | |
| **1,2,4-Trichlorobenzene** | **22.1** | 5.0 | ug/l | 25.0 | ND | 88.4 | 60-145 | 3.56 | 20 | |
| **1,1,1-Trichloroethane** | **25.4** | 2.0 | ug/l | 25.0 | ND | 102 | 70-130 | 1.59 | 20 | |
| **1,1,2-Trichloroethane** | **23.4** | 2.0 | ug/l | 25.0 | ND | 93.6 | 70-130 | 0 | 20 | |

Julie M. Slocum
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Attention: Jim Clarke

Client Project ID: 70211-0-0150
Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1303 Extracted: 07/13/00** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 07/13/00 (P0G1303-MSD1)** | | | | | **Source: PJG0053-03** | | | | | |
| **Trichloroethene** | **29.2** | 2.0 | ug/l | 25.0 | ND | 117 | 75-120 | 23.8 | 20 | R2 |
| **Trichlorofluoromethane** | **15.4** | 5.0 | ug/l | 25.0 | ND | 61.6 | 10-200 | 3.97 | 20 | |
| **1,2,3-Trichloropropane** | **21.4** | 10 | ug/l | 25.0 | ND | 85.6 | 55-150 | 3.81 | 20 | |
| **1,2,4-Trimethylbenzene** | **21.9** | 2.0 | ug/l | 25.0 | ND | 87.6 | 65-150 | 4.46 | 20 | |
| **1,3,5-Trimethylbenzene** | **21.8** | 2.0 | ug/l | 25.0 | ND | 87.2 | 65-150 | 2.71 | 20 | |
| **Vinyl acetate** | **15.7** | 5.0 | ug/l | 25.0 | ND | 62.8 | 50-160 | 39.0 | 20 | R2 |
| **Vinyl chloride** | **13.6** | 5.0 | ug/l | 25.0 | ND | 54.4 | 25-200 | 18.7 | 20 | |
| **Xylenes, Total** | **70.3** | 10 | ug/l | 75.0 | ND | 93.7 | 65-145 | 0.714 | 20 | |
| *Surrogate: Dibromofluoromethane* | *24.1* | | *ug/l* | *25.0* | | *96.4* | *70-160* | | | |
| *Surrogate: Toluene-d8* | *24.8* | | *ug/l* | *25.0* | | *99.2* | *75-140* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *22.6* | | *ug/l* | *25.0* | | *90.4* | *75-135* | | | |

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Project Manager



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Attention: Jim Clarke

Client Project ID: 70211-0-0150
Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

METHOD BLANK/QC DATA

# ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1012 Extracted: 07/10/00** | | | | | | | | | | |
| **Blank Analyzed: 07/19/00 (P0G1012-BLK1)** | | | | | | | | | | |
| Acenaphthene | ND | 10 | ug/l | | | | | | | |
| Acenaphthylene | ND | 10 | ug/l | | | | | | | |
| Anthracene | ND | 10 | ug/l | | | | | | | |
| Benzidine | ND | 100 | ug/l | | | | | | | |
| Benz(a)anthracene | ND | 10 | ug/l | | | | | | | |
| Benzo(b,k)fluoranthene | ND | 10 | ug/l | | | | | | | |
| Benzo(g,h,i)perylene | ND | 20 | ug/l | | | | | | | |
| Benzo(a)pyrene | ND | 20 | ug/l | | | | | | | |
| Bis(2-chloroethoxy)methane | ND | 10 | ug/l | | | | | | | |
| Bis(2-chloroethyl)ether | ND | 10 | ug/l | | | | | | | |
| Bis(2-chloroisopropyl)ether | ND | 10 | ug/l | | | | | | | |
| Bis(2-ethylhexyl)phthalate | ND | 20 | ug/l | | | | | | | |
| 4-Bromophenyl phenyl ether | ND | 20 | ug/l | | | | | | | |
| Butyl benzyl phthalate | ND | 10 | ug/l | | | | | | | |
| 2-Chloronaphthalene | ND | 10 | ug/l | | | | | | | |
| 4-Chloro-3-methylphenol | ND | 10 | ug/l | | | | | | | |
| 2-Chlorophenol | ND | 10 | ug/l | | | | | | | |
| 4-Chlorophenyl phenyl ether | ND | 10 | ug/l | | | | | | | |
| Chrysene | ND | 10 | ug/l | | | | | | | |
| Dibenz(a,h)anthracene | ND | 20 | ug/l | | | | | | | |
| Di-n-butyl phthalate | ND | 10 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 10 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 10 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 10 | ug/l | | | | | | | |
| 3,3-Dichlorobenzidine | ND | 20 | ug/l | | | | | | | |
| 2,4-Dichlorophenol | ND | 10 | ug/l | | | | | | | |
| Diethyl phthalate | ND | 10 | ug/l | | | | | | | |
| 2,4-Dimethylphenol | ND | 10 | ug/l | | | | | | | |
| Dimethyl phthalate | ND | 10 | ug/l | | | | | | | |
| 4,6-Dinitro-2-methylphenol | ND | 10 | ug/l | | | | | | | |

Julie M. Slocum
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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150
Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

METHOD BLANK/QC DATA

# ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1012 Extracted: 07/10/00** | | | | | | | | | | |
| **Blank Analyzed: 07/19/00 (P0G1012-BLK1)** | | | | | | | | | | |
| 2,4-Dinitrophenol | ND | 30 | ug/l | | | | | | | |
| 2,4-Dinitrotoluene | ND | 10 | ug/l | | | | | | | |
| 2,6-Dinitrotoluene | ND | 10 | ug/l | | | | | | | |
| Di-n-octyl phthalate | ND | 10 | ug/l | | | | | | | |
| 1,2-Diphenylhydrazine | ND | 10 | ug/l | | | | | | | |
| Fluoranthene | ND | 10 | ug/l | | | | | | | |
| Fluorene | ND | 10 | ug/l | | | | | | | |
| Hexachlorobenzene | ND | 10 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 20 | ug/l | | | | | | | |
| Hexachlorocyclopentadiene | ND | 30 | ug/l | | | | | | | |
| Hexachloroethane | ND | 10 | ug/l | | | | | | | |
| Indeno(1,2,3-cd)pyrene | ND | 20 | ug/l | | | | | | | |
| Isophorone | ND | 10 | ug/l | | | | | | | |
| Naphthalene | ND | 10 | ug/l | | | | | | | |
| Nitrobenzene | ND | 10 | ug/l | | | | | | | |
| 2-Nitrophenol | ND | 10 | ug/l | | | | | | | |
| 4-Nitrophenol | ND | 10 | ug/l | | | | | | | |
| n-Nitrosodiphenylamine | ND | 30 | ug/l | | | | | | | |
| n-Nitroso-di-n-propylamine | ND | 10 | ug/l | | | | | | | |
| Pentachlorophenol | ND | 20 | ug/l | | | | | | | |
| Phenanthrene | ND | 10 | ug/l | | | | | | | |
| Phenol | ND | 10 | ug/l | | | | | | | |
| Pyrene | ND | 10 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 10 | ug/l | | | | | | | |
| 2,4,6-Trichlorophenol | ND | 10 | ug/l | | | | | | | |
| n-Nitrosodimethylamine | ND | 10 | ug/l | | | | | | | |
| *Surrogate: 2-Fluorophenol* | *91.3* | | *ug/l* | *100* | | *91.3* | *21-100* | | | |
| *Surrogate: Phenol-d6* | *97.0* | | *ug/l* | *100* | | *97.0* | *10-94* | | | *Z2* |
| *Surrogate: 2,4,6-Tribromophenol* | *90.4* | | *ug/l* | *100* | | *90.4* | *10-123* | | | |

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150
Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

METHOD BLANK/QC DATA

# ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1012 Extracted: 07/10/00** | | | | | | | | | | |
| **Blank Analyzed: 07/19/00 (P0G1012-BLK1)** | | | | | | | | | | |
| *Surrogate: Nitrobenzene-d5* | *50.8* | | *ug/l* | *50.0* | | *102* | *35-114* | | | |
| *Surrogate: 2-Fluorobiphenyl* | *38.7* | | *ug/l* | *50.0* | | *77.4* | *43-116* | | | |
| *Surrogate: Terphenyl-d14* | *45.3* | | *ug/l* | *50.0* | | *90.6* | *33-141* | | | |
| **LCS Analyzed: 07/19/00 (P0G1012-BS1)** | | | | | | | | | | |
| **Acenaphthene** | **41.0** | 10 | ug/l | 50.0 | | 82.0 | 47-145 | | | |
| **4-Chloro-3-methylphenol** | **49.2** | 10 | ug/l | 50.0 | | 98.4 | 22-147 | | | |
| **2-Chlorophenol** | **41.8** | 10 | ug/l | 50.0 | | 83.6 | 23-134 | | | |
| **1,4-Dichlorobenzene** | **32.0** | 10 | ug/l | 50.0 | | 64.0 | 20-124 | | | |
| **2,4-Dinitrotolnene** | **48.2** | 10 | ug/l | 50.0 | | 96.4 | 39-139 | | | |
| **4-Nitrophenol** | **51.5** | 10 | ug/l | 50.0 | | 103 | 0.01-132 | | | |
| **n-Nitroso-di-n-propylamine** | **44.4** | 10 | ug/l | 50.0 | | 88.8 | 0.01-230 | | | |
| **Pentachlorophenol** | **42.1** | 20 | ug/l | 50.0 | | 84.2 | 14-176 | | | |
| **Phenol** | **44.1** | 10 | ug/l | 50.0 | | 88.2 | 5-112 | | | |
| **Pyrene** | **45.4** | 10 | ug/l | 50.0 | | 90.8 | 52-115 | | | |
| **1,2,4-Trichlorobenzene** | **35.2** | 10 | ug/l | 50.0 | | 70.4 | 44-142 | | | |
| *Surrogate: 2-Fluorophenol* | *90.4* | | *ug/l* | *100* | | *90.4* | *21-100* | | | |
| *Surrogate: Phenol-d6* | *97.4* | | *ug/l* | *100* | | *97.4* | *10-94* | | | *Z2* |
| *Surrogate: 2,4,6-Tribromophenol* | *101* | | *ug/l* | *100* | | *101* | *10-123* | | | |
| *Surrogate: Nitrobenzene-d5* | *48.3* | | *ug/l* | *50.0* | | *96.6* | *35-114* | | | |
| *Surrogate: 2-Fluorobiphenyl* | *42.8* | | *ug/l* | *50.0* | | *85.6* | *43-116* | | | |
| *Surrogate: Terphenyl-d14* | *50.1* | | *ug/l* | *50.0* | | *100* | *33-141* | | | |
| **LCS Dup Analyzed: 07/19/00 (P0G1012-BSD1)** | | | | | | | | | | |
| **Acenaphthene** | **35.9** | 10 | ug/l | 50.0 | | 71.8 | 47-145 | 13.3 | 20 | |
| **4-Chloro-3-methylphenol** | **44.4** | 10 | ug/l | 50.0 | | 88.8 | 22-147 | 10.3 | 20 | |
| **2-Chlorophenol** | **37.9** | 10 | ug/l | 50.0 | | 75.8 | 23-134 | 9.79 | 20 | |
| **1,4-Dichlorobenzene** | **30.8** | 10 | ug/l | 50.0 | | 61.6 | 20-124 | 3.82 | 20 | |
| **2,4-Dinitrotoluene** | **45.1** | 10 | ug/l | 50.0 | | 90.2 | 39-139 | 6.65 | 20 | |
| **4-Nitrophenol** | **51.8** | 10 | ug/l | 50.0 | | 104 | 0.01-132 | 0.581 | 20 | |
| **n-Nitroso-di-n-propylamine** | **38.8** | 10 | ug/l | 50.0 | | 77.6 | 0.01-230 | 13.5 | 20 | |

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150
Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

## METHOD BLANK/QC DATA

# ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1012 Extracted: 07/10/00** | | | | | | | | | | |
| **LCS Dup Analyzed: 07/19/00 (P0G1012-BSD1)** | | | | | | | | | | |
| **Pentachlorophenol** | **42.8** | 20 | ug/l | 50.0 | | 85.6 | 14-176 | 1.65 | 20 | |
| **Phenol** | **39.3** | 10 | ug/l | 50.0 | | 78.6 | 5-112 | 11.5 | 20 | |
| **Pyrene** | **40.8** | 10 | ug/l | 50.0 | | 81.6 | 52-115 | 10.7 | 20 | |
| **1,2,4-Trichlorobenzene** | **33.3** | 10 | ug/l | 50.0 | | 66.6 | 44-142 | 5.55 | 20 | |
| *Surrogate: 2-Fluorophenol* | *81.2* | | *ug/l* | *100* | | *81.2* | *21-100* | | | |
| *Surrogate: Phenol-d6* | *84.9* | | *ug/l* | *100* | | *84.9* | *10-94* | | | |
| *Surrogate: 2,4,6-Tribromophenol* | *96.7* | | *ug/l* | *100* | | *96.7* | *10-123* | | | |
| *Surrogate: Nitrobenzene-d5* | *44.1* | | *ug/l* | *50.0* | | *88.2* | *35-114* | | | |
| *Surrogate: 2-Fluorobiphenyl* | *37.6* | | *ug/l* | *50.0* | | *75.2* | *43-116* | | | |
| *Surrogate: Terphenyl-d14* | *39.2* | | *ug/l* | *50.0* | | *78.4* | *33-141* | | | |
| **Matrix Spike Analyzed: 07/19/00 (P0G1012-MS1)** | | | | | **Source: PJG0032-01** | | | | | |
| **Acenaphthene** | **35.5** | 10 | ug/l | 50.0 | ND | 71.0 | 47-145 | | | |
| **4-Chloro-3-methylphenol** | **43.2** | 10 | ug/l | 50.0 | ND | 86.4 | 22-147 | | | |
| **2-Chlorophenol** | **39.7** | 10 | ug/l | 50.0 | ND | 79.4 | 23-134 | | | |
| **1,4-Dichlorobenzene** | **32.0** | 10 | ug/l | 50.0 | ND | 64.0 | 20-124 | | | |
| **2,4-Dinitrotoluene** | **45.8** | 10 | ug/l | 50.0 | ND | 91.6 | 39-139 | | | |
| **4-Nitrophenol** | **52.1** | 10 | ug/l | 50.0 | ND | 104 | 0.01-132 | | | |
| **n-Nitroso-di-n-propylamine** | **39.5** | 10 | ug/l | 50.0 | ND | 79.0 | 0.01-230 | | | |
| **Pentachlorophenol** | **42.0** | 20 | ug/l | 50.0 | ND | 84.0 | 14-176 | | | |
| **Phenol** | **40.8** | 10 | ug/l | 50.0 | ND | 81.6 | 5-112 | | | |
| **Pyrene** | **40.9** | 10 | ug/l | 50.0 | ND | 81.8 | 52-115 | | | |
| **1,2,4-Trichlorobenzene** | **34.0** | 10 | ug/l | 50.0 | ND | 68.0 | 44-142 | | | |
| *Surrogate: 2-Fluorophenol* | *85.3* | | *ug/l* | *100* | | *85.3* | *21-100* | | | |
| *Surrogate: Phenol-d6* | *89.1* | | *ug/l* | *100* | | *89.1* | *10-94* | | | |
| *Surrogate: 2,4,6-Tribromophenol* | *95.2* | | *ug/l* | *100* | | *95.2* | *10-123* | | | |
| *Surrogate: Nitrobenzene-d5* | *44.6* | | *ug/l* | *50.0* | | *89.2* | *35-114* | | | |
| *Surrogate: 2-Fluorobiphenyl* | *39.2* | | *ug/l* | *50.0* | | *78.4* | *43-116* | | | |
| *Surrogate: Terphenyl-d14* | *44.6* | | *ug/l* | *50.0* | | *89.2* | *33-141* | | | |

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150
Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

METHOD BLANK/QC DATA

## ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1012 Extracted: 07/10/00** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 07/20/00 (P0G1012-MSD1)** | | | | | **Source: PJG0032-01** | | | | | |
| **Acenaphthene** | **40.4** | 10 | ug/l | 50.0 | ND | 80.8 | 47-145 | 12.9 | 20 | |
| **4-Chloro-3-methylphenol** | **47.6** | 10 | ug/l | 50.0 | ND | 95.2 | 22-147 | 9.69 | 20 | |
| **2-Chlorophenol** | **40.0** | 10 | ug/l | 50.0 | ND | 80.0 | 23-134 | 0.753 | 20 | |
| **1,4-Dichlorobenzene** | **31.7** | 10 | ug/l | 50.0 | ND | 63.4 | 20-124 | 0.942 | 20 | |
| **2,4-Dinitrotoluene** | **47.2** | 10 | ug/l | 50.0 | ND | 94.4 | 39-139 | 3.01 | 20 | |
| **4-Nitrophenol** | **52.2** | 10 | ug/l | 50.0 | ND | 104 | 0.01-132 | 0.192 | 20 | |
| **n-Nitroso-di-n-propylamine** | **41.4** | 10 | ug/l | 50.0 | ND | 82.8 | 0.01-230 | 4.70 | 20 | |
| **Pentachlorophenol** | **44.0** | 20 | ug/l | 50.0 | ND | 88.0 | 14-176 | 4.65 | 20 | |
| **Phenol** | **42.1** | 10 | ug/l | 50.0 | ND | 84.2 | 5-112 | 3.14 | 20 | |
| **Pyrene** | **42.4** | 10 | ug/l | 50.0 | ND | 84.8 | 52-115 | 3.60 | 20 | |
| **1,2,4-Trichlorobenzene** | **35.2** | 10 | ug/l | 50.0 | ND | 70.4 | 44-142 | 3.47 | 20 | |
| *Surrogate: 2-Fluorophenol* | *85.2* | | *ug/l* | *100* | | *85.2* | *21-100* | | | |
| *Surrogate: Phenol-d6* | *94.2* | | *ug/l* | *100* | | *94.2* | *10-94* | | | *Z2* |
| *Surrogate: 2,4,6-Tribromophenol* | *102* | | *ug/l* | *100* | | *102* | *10-123* | | | |
| *Surrogate: Nitrobenzene-d5* | *46.8* | | *ug/l* | *50.0* | | *93.6* | *35-114* | | | |
| *Surrogate: 2-Fluorobiphenyl* | *43.5* | | *ug/l* | *50.0* | | *87.0* | *43-116* | | | |
| *Surrogate: Terphenyl-d14* | *43.6* | | *ug/l* | *50.0* | | *87.2* | *33-141* | | | |

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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150
Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

## METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1023 Extracted: 07/10/00** | | | | | | | | | | |
| **Blank Analyzed: 07/13/00 (P0G1023-BLK1)** | | | | | | | | | | |
| Antimony | ND | 0.0040 | mg/l | | | | | | | |
| Arsenic | ND | 0.0030 | mg/l | | | | | | | |
| Beryllium | ND | 0.00050 | mg/l | | | | | | | |
| Cadmium | ND | 0.00050 | mg/l | | | | | | | |
| Chromium | ND | 0.0040 | mg/l | | | | | | | |
| Selenium | ND | 0.0040 | mg/l | | | | | | | |
| **LCS Analyzed: 07/13/00 (P0G1023-BS1)** | | | | | | | | | | |
| **Antimony** | **0.0368** | 0.0080 | mg/l | 0.0400 | | 92.0 | 85-115 | | | |
| **Arsenic** | **0.0386** | 0.0060 | mg/l | 0.0400 | | 96.5 | 85-115 | | | |
| **Beryllium** | **0.00228** | 0.0010 | mg/l | 0.00200 | | 114 | 85-115 | | | |
| **Cadmium** | **0.00216** | 0.0010 | mg/l | 0.00200 | | 108 | 85-115 | | | |
| **Chromium** | **0.0412** | 0.0080 | mg/l | 0.0400 | | 103 | 85-115 | | | |
| **Selenium** | **0.0392** | 0.0080 | mg/l | 0.0400 | | 98.0 | 85-115 | | | |
| **LCS Dup Analyzed: 07/13/00 (P0G1023-BSD1)** | | | | | | | | | | |
| **Antimony** | **0.0374** | 0.0080 | mg/l | 0.0400 | | 93.5 | 85-115 | 1.62 | 20 | |
| **Arsenic** | **0.0408** | 0.0060 | mg/l | 0.0400 | | 102 | 85-115 | 5.54 | 20 | |
| **Beryllium** | **0.00212** | 0.0010 | mg/l | 0.00200 | | 106 | 85-115 | 7.27 | 20 | |
| **Cadmium** | **0.00222** | 0.0010 | mg/l | 0.00200 | | 111 | 85-115 | 2.74 | 20 | |
| **Chromium** | **0.0412** | 0.0080 | mg/l | 0.0400 | | 103 | 85-115 | 0 | 20 | |
| **Selenium** | **0.0391** | 0.0080 | mg/l | 0.0400 | | 97.7 | 85-115 | 0.255 | 20 | |
| **Matrix Spike Analyzed: 07/13/00 (P0G1023-MS1)** | | | | | **Source: PJG0053-01** | | | | | |
| **Antimony** | **0.0416** | 0.0080 | mg/l | 0.0400 | ND | 104 | 70-130 | | | |
| **Arsenic** | **0.0432** | 0.0060 | mg/l | 0.0400 | ND | 95.5 | 70-130 | | | |
| **Beryllium** | **0.00336** | 0.0020 | mg/l | 0.00200 | ND | 154 | 70-130 | | | M |
| **Cadmium** | **0.00210** | 0.0010 | mg/l | 0.00200 | ND | 105 | 70-130 | | | |
| **Chromium** | **0.0954** | 0.040 | mg/l | 0.0400 | 0.067 | 71.0 | 70-130 | | | |
| **Selenium** | **0.0389** | 0.0080 | mg/l | 0.0400 | ND | 88.7 | 70-130 | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150
Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1023 Extracted: 07/10/00** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 07/13/00 (P0G1023-MSD1)** | | | | | Source: PJG0053-01 | | | | | |
| **Antimony** | **0.0441** | 0.0080 | mg/l | 0.0400 | ND | 110 | 70-130 | 5.83 | 20 | |
| **Arsenic** | **0.0473** | 0.0060 | mg/l | 0.0400 | ND | 106 | 70-130 | 9.06 | 20 | |
| **Beryllium** | **0.00358** | 0.0020 | mg/l | 0.00200 | ND | 165 | 70-130 | 6.34 | 20 | M |
| **Cadmium** | **0.00222** | 0.0010 | mg/l | 0.00200 | ND | 111 | 70-130 | 5.56 | 20 | |
| **Chromium** | **0.0903** | 0.040 | mg/l | 0.0400 | 0.067 | 58.3 | 70-130 | 5.49 | 20 | M |
| **Selenium** | **0.0392** | 0.0080 | mg/l | 0.0400 | ND | 89.5 | 70-130 | 0.768 | 20 | |
| **Batch: P0G1113 Extracted: 07/11/00** | | | | | | | | | | |
| **Blank Analyzed: 07/12/00 (P0G1113-BLK1)** | | | | | | | | | | |
| Aluminum | ND | 0.50 | mg/l | | | | | | | |
| Barium | ND | 0.010 | mg/l | | | | | | | |
| Calcium | ND | 2.0 | mg/l | | | | | | | |
| Cobalt | ND | 0.050 | mg/l | | | | | | | |
| Copper | ND | 0.020 | mg/l | | | | | | | |
| Iron | ND | 0.10 | mg/l | | | | | | | |
| Lead | ND | 0.050 | mg/l | | | | | | | |
| Magnesium | ND | 0.50 | mg/l | | | | | | | |
| Manganese | ND | 0.020 | mg/l | | | | | | | |
| Nickel | ND | 0.050 | mg/l | | | | | | | |
| Silver | ND | 0.0050 | mg/l | | | | | | | |
| Sodium | ND | 5.0 | mg/l | | | | | | | |
| Strontium | ND | 0.10 | mg/l | | | | | | | |
| Vanadium | ND | 0.050 | mg/l | | | | | | | |
| Zinc | ND | 0.050 | mg/l | | | | | | | |
| **LCS Analyzed: 07/12/00 (P0G1113-BS1)** | | | | | | | | | | |
| **Aluminum** | **0.920** | 0.50 | mg/l | 1.00 | | 92.0 | 85-115 | | | |
| **Barium** | **0.979** | 0.010 | mg/l | 1.00 | | 97.9 | 85-115 | | | |
| **Calcium** | **9.69** | 2.0 | mg/l | 10.0 | | 96.9 | 85-115 | | | |
| **Cobalt** | **0.950** | 0.050 | mg/l | 1.00 | | 95.0 | 85-115 | | | |
| **Copper** | **0.956** | 0.020 | mg/l | 1.00 | | 95.6 | 85-115 | | | |
| **Iron** | **9.88** | 0.10 | mg/l | 10.0 | | 98.8 | 85-115 | | | |

Julie M. Slocum
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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150

Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1113 Extracted: 07/11/00** | | | | | | | | | | |
| **LCS Analyzed: 07/12/00 (P0G1113-BS1)** | | | | | | | | | | |
| **Lead** | **0.961** | 0.050 | mg/l | 1.00 | | 96.1 | 85-115 | | | |
| **Magnesium** | **9.33** | 0.50 | mg/l | 10.0 | | 93.3 | 85-115 | | | |
| **Manganese** | **0.977** | 0.020 | mg/l | 1.00 | | 97.7 | 85-115 | | | |
| **Nickel** | **0.962** | 0.050 | mg/l | 1.00 | | 96.2 | 85-115 | | | |
| **Silver** | **0.0513** | 0.0050 | mg/l | 0.0500 | | 103 | 85-115 | | | |
| **Sodium** | **50.2** | 5.0 | mg/l | 50.0 | | 100 | 85-115 | | | |
| Strontium | ND | 0.10 | mg/l | 0.100 | | 94.6 | 85-115 | | | |
| **Vanadium** | **0.978** | 0.050 | mg/l | 1.00 | | 97.8 | 85-115 | | | |
| **Zinc** | **0.934** | 0.050 | mg/l | 1.00 | | 93.4 | 85-115 | | | |
| **LCS Dup Analyzed: 07/12/00 (P0G1113-BSD1)** | | | | | | | | | | |
| **Aluminum** | **0.864** | 0.50 | mg/l | 1.00 | | 86.4 | 85-115 | 6.28 | 20 | |
| **Barium** | **0.946** | 0.010 | mg/l | 1.00 | | 94.6 | 85-115 | 3.43 | 20 | |
| **Calcium** | **9.63** | 2.0 | mg/l | 10.0 | | 96.3 | 85-115 | 0.621 | 20 | |
| **Cobalt** | **0.939** | 0.050 | mg/l | 1.00 | | 93.9 | 85-115 | 1.16 | 20 | |
| **Copper** | **0.917** | 0.020 | mg/l | 1.00 | | 91.7 | 85-115 | 4.16 | 20 | |
| **Iron** | **9.52** | 0.10 | mg/l | 10.0 | | 95.2 | 85-115 | 3.71 | 20 | |
| **Lead** | **0.950** | 0.050 | mg/l | 1.00 | | 95.0 | 85-115 | 1.15 | 20 | |
| **Magnesium** | **9.27** | 0.50 | mg/l | 10.0 | | 92.7 | 85-115 | 0.645 | 20 | |
| **Manganese** | **0.957** | 0.020 | mg/l | 1.00 | | 95.7 | 85-115 | 2.07 | 20 | |
| **Nickel** | **0.935** | 0.050 | mg/l | 1.00 | | 93.5 | 85-115 | 2.85 | 20 | |
| **Silver** | **0.0494** | 0.0050 | mg/l | 0.0500 | | 98.8 | 85-115 | 3.77 | 20 | |
| **Sodium** | **50.0** | 5.0 | mg/l | 50.0 | | 100 | 85-115 | 0.399 | 20 | |
| Strontium | ND | 0.10 | mg/l | 0.100 | | 94.2 | 85-115 | 0.424 | 20 | |
| **Vanadium** | **0.973** | 0.050 | mg/l | 1.00 | | 97.3 | 85-115 | 0.513 | 20 | |
| **Zinc** | **0.926** | 0.050 | mg/l | 1.00 | | 92.6 | 85-115 | 0.860 | 20 | |
| **Matrix Spike Analyzed: 07/12/00 (P0G1113-MS1)** | | | | | **Source: PJG0053-02** | | | | | |
| **Aluminum** | **1.09** | 0.50 | mg/l | 1.00 | ND | 109 | 70-130 | | | |
| **Barium** | **1.04** | 0.010 | mg/l | 1.00 | 0.093 | 94.7 | 70-130 | | | |
| **Calcium** | **200** | 2.0 | mg/l | 10.0 | 190 | 100 | 70-130 | | | |
| **Cobalt** | **0.927** | 0.050 | mg/l | 1.00 | ND | 92.3 | 70-130 | | | |
| **Copper** | **0.961** | 0.020 | mg/l | 1.00 | ND | 94.6 | 70-130 | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150
Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1113 Extracted: 07/11/00** | | | | | | | | | | |
| **Matrix Spike Analyzed: 07/12/00 (P0G1113-MS1)** | | | | | Source: PJG0053-02 | | | | | |
| **Iron** | **12.0** | 0.10 | mg/l | 10.0 | 2.2 | 98.0 | 70-130 | | | |
| **Lead** | **0.928** | 0.050 | mg/l | 1.00 | ND | 92.8 | 70-130 | | | |
| **Magnesium** | **73.8** | 0.50 | mg/l | 10.0 | 63 | 108 | 70-130 | | | |
| **Manganese** | **0.996** | 0.020 | mg/l | 1.00 | 0.044 | 95.2 | 70-130 | | | |
| **Nickel** | **0.924** | 0.050 | mg/l | 1.00 | ND | 91.5 | 70-130 | | | |
| **Silver** | **0.0499** | 0.0050 | mg/l | 0.0500 | ND | 99.8 | 70-130 | | | |
| **Sodium** | **469** | 5.0 | mg/l | 50.0 | 400 | 138 | 85-115 | | | M |
| **Strontium** | **1.88** | 1.0 | mg/l | 0.100 | 1.7 | 180 | 70-130 | | | M |
| **Vanadium** | **1.01** | 0.050 | mg/l | 1.00 | ND | 100 | 70-130 | | | |
| **Zinc** | **0.945** | 0.050 | mg/l | 1.00 | ND | 94.5 | 70-130 | | | |
| **Matrix Spike Dup Analyzed: 07/12/00 (P0G1113-MSD1)** | | | | | Source: PJG0053-02 | | | | | |
| **Aluminum** | **1.02** | 0.50 | mg/l | 1.00 | ND | 102 | 70-130 | 6.64 | 20 | |
| **Barium** | **1.00** | 0.010 | mg/l | 1.00 | 0.093 | 90.7 | 70-130 | 3.92 | 20 | |
| **Calcium** | **188** | 2.0 | mg/l | 10.0 | 190 | -20.0 | 70-130 | 6.19 | 20 | M |
| **Cobalt** | **0.912** | 0.050 | mg/l | 1.00 | ND | 90.8 | 70-130 | 1.63 | 20 | |
| **Copper** | **0.923** | 0.020 | mg/l | 1.00 | ND | 90.8 | 70-130 | 4.03 | 20 | |
| **Iron** | **11.5** | 0.10 | mg/l | 10.0 | 2.2 | 93.0 | 70-130 | 4.26 | 20 | |
| **Lead** | **0.916** | 0.050 | mg/l | 1.00 | ND | 91.6 | 70-130 | 1.30 | 20 | |
| **Magnesium** | **70.1** | 0.50 | mg/l | 10.0 | 63 | 71.0 | 70-130 | 5.14 | 20 | |
| **Manganese** | **0.962** | 0.020 | mg/l | 1.00 | 0.044 | 91.8 | 70-130 | 3.47 | 20 | |
| **Nickel** | **0.897** | 0.050 | mg/l | 1.00 | ND | 88.8 | 70-130 | 2.97 | 20 | |
| **Silver** | **0.0495** | 0.0050 | mg/l | 0.0500 | ND | 99.0 | 70-130 | 0.805 | 20 | |
| **Sodium** | **444** | 5.0 | mg/l | 50.0 | 400 | 88.0 | 85-115 | 5.48 | 20 | |
| **Strontium** | **1.80** | 1.0 | mg/l | 0.100 | 1.7 | 100 | 70-130 | 4.35 | 20 | |
| **Vanadium** | **0.972** | 0.050 | mg/l | 1.00 | ND | 96.5 | 70-130 | 3.83 | 20 | |
| **Zinc** | **0.926** | 0.050 | mg/l | 1.00 | ND | 92.6 | 70-130 | 2.03 | 20 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150
Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0G1803 Extracted: 07/18/00** | | | | | | | | | | |
| **Blank Analyzed: 07/18/00 (P0G1803-BLK1)** | | | | | | | | | | |
| Chromium | ND | 0.0040 | mg/l | | | | | | | |
| **LCS Analyzed: 07/18/00 (P0G1803-BS1)** | | | | | | | | | | |
| Chromium | 0.0410 | 0.0080 | mg/l | 0.0400 | | 103 | 85-115 | | | |
| **LCS Dup Analyzed: 07/18/00 (P0G1803-BSD1)** | | | | | | | | | | |
| Chromium | 0.0413 | 0.0080 | mg/l | 0.0400 | | 103 | 85-115 | 0.729 | 20 | |
| **Matrix Spike Analyzed: 07/18/00 (P0G1803-MS1)** | | | | | Source: PJF0476-15 | | | | | |
| Chromium | 0.0466 | 0.0080 | mg/l | 0.0400 | ND | 104 | 70-130 | | | |
| **Matrix Spike Dup Analyzed: 07/18/00 (P0G1803-MSD1)** | | | | | Source: PJF0476-15 | | | | | |
| Chromium | 0.0443 | 0.0080 | mg/l | 0.0400 | ND | 98.3 | 70-130 | 5.06 | 20 | |

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| | | |
|---|---|---|
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METHOD BLANK/QC DATA

# DATA QUALIFIERS AND DEFINITIONS

| | |
|---|---|
| **C** | Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted. |
| **C2** | Calibration Verification recovery was below the method control limit for this analyte, however the average % difference for all analytes met method criteria. See Calibration Check Criteria form. |
| **L** | Laboratory Control Sample recovery was above the method control limits. Analyte not detected, data not impacted. |
| **L3** | Laboratory Control Sample recovery was outside of the acceptance limits. See Corrective Action Report. |
| **M** | The MS and/or MSD were outside of the acceptance limits due to sample matrix interference. See Blank Spike (LCS). |
| **M2** | Matrix Spike recovery was outside the method control limits. See Corrective Action Report. |
| **R2** | The RPD exceeded the method control limit. See Corrective Action Report. |
| **S** | Analyzed by Method of Standard Addition. |
| **Z2** | Surrogate recovery was above the acceptance limits. Data not impacted. |
| **ND** | Analyte NOT DETECTED at or above the reporting limit |
| **NR** | Not reported. |
| **RPD** | Relative Percent Difference |

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Report Number: PJG0053

Sampled: 07/06/00
Received: 07/06/00

## CALIBRATION CHECK CRITERIA

## ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

The % recovery for the following individual compounds fell outside the ± 15% criteria, however the average % recovery of all compounds in the calibration check solution was within ± 15%, thus meeting the overall calibration check criteria.

| Compound | Footnote | Calibration Check % Recovery | Lab Number | Batch |
|---|---|---|---|---|
| Benzidine | 2 | 84.4 | PJG0053-05 | P0G1012 |

Footnotes:

1 The calibration demonstrated a high bias for this compound. Samples were flagged to indicate a possible high bias in the result for this compound.

2 The calibration demonstrated a low bias for this compound. Samples were flagged to indicate a possible low bias in the result for this compound.

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| | | |
|---|---|---|
| Law Engineering<br>4634 S. 36th Place<br>Phoenix, AZ 85040<br>Attention: Jim Clarke | Client Project ID: S Mesa WQARF/70211-0-0150-02-2.2<br>Report Number: PJJ0418 | Sampled: 07/26/00<br>Received: 10/25/00<br>Issued: 10/30/00<br>Revised: 11/16/00 |

# CASE NARRATIVE

| LABORATORY NUMBER | SAMPLE DESCRIPTION | SAMPLE MATRIX |
|---|---|---|
| PJJ0418-01 | MW1D MW2D | Water |

SAMPLE RECEIPT: Samples were received intact, on ice, and with chain of custody documentation.

HOLDING TIMES: Holding times were met.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria.

OBSERVATIONS: Lithium was analyzed by Method 7430 which calls for Method 3005A as the digestion method. The associated samples were digested by Method 200.2 which is a slightly less rigourous digestion than 3005A, however the data should not be significantly impacted. All QC met method criteria, and although samples do not meet method compliance, they do provide useful information.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

**DEL MAR ANALYTICAL , PHOENIX (AZ0426)**

Julie M. Slocum
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Client Project ID: S Mesa WQARF/70211-0-0150-02-2.2
Report Number: PJJ0418

Sampled: 07/26/00
Received: 10/25/00

## DISSOLVED METALS

| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJJ0418-01 (MW1D MW2D - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2606 | 1.0 | ND | 1 | 7/27/00 | 10/26/00 | A-01,M |

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Report Number: PJJ0418

Sampled: 07/26/00
Received: 10/25/00

## METHOD BLANK/QC DATA

## DISSOLVED METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0J2606 Extracted: 07/27/00** | | | | | | | | | | |
| **Blank Analyzed: 10/26/00 (P0J2606-BLK1)** | | | | | | | | | | |
| Lithium | ND | 1.0 | mg/l | | | | | | | |
| **LCS Analyzed: 10/26/00 (P0J2606-BS1)** | | | | | | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | | 100 | 85-115 | | | |
| **LCS Dup Analyzed: 10/26/00 (P0J2606-BSD1)** | | | | | | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | | 100 | 85-115 | 0 | 20 | |
| **Matrix Spike Analyzed: 10/26/00 (P0J2606-MS1)** | | | | | **Source: PJJ0418-01** | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | ND | 120 | 85-115 | | | M |
| **Matrix Spike Dup Analyzed: 10/26/00 (P0J2606-MSD1)** | | | | | **Source: PJJ0418-01** | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | ND | 120 | 85-115 | 0 | 20 | M |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: S Mesa WQARF/70211-0-0150-02-2.2
Report Number: PJJ0418

Sampled: 07/26/00
Received: 10/25/00

METHOD BLANK/QC DATA

# DATA QUALIFIERS AND DEFINITIONS

**A-01** This analysis does not meet method compliance. See Case Narrative.

**M** The MS and/or MSD were outside of the acceptance limits due to sample matrix interference. See Blank Spike (LCS).

**ND** Analyte NOT DETECTED at or above the reporting limit

**NR** Not reported.

**RPD** Relative Percent Difference

Julie M. Slocum
Project Manager



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# ADDITIONAL ANALYSIS REQUEST FORM

Today's Date: 10/25/00 DMA Project Manager: Julie Sloan

Request via: X telephone ____ chain of custody form ____ fax transmission ____ E-mail ____ other

Client: LAW Contact: Jim Clarke

Project: PJG0406

Date Sampled: 7/26/00 Date Received: 7/26/00

Status: ___ in progress X completed ____ received today ___ received yesterday ____ on hold ____ other

| SAMPLE NUMBER | SAMPLE DESCRIPTION | ANALYSIS REQUESTED | SPECIAL REQUIREMENTS |
|---|---|---|---|
| PJG0406-01 | MW2D | Lithium by FLAA | |
| | | | |
| | | | |
| | | | |
| | | | |
| use | digest from | PJG0406 | |
| | | | |
| | | | |
| | | | |
| | | | |
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| | | | |
| | | | |

TURNAROUND: ___ SAME DAY X 24 HR. ___ 48 HR. ___ 3 DAY ___ 5 DAY ___ STND X NO RUSH CHARGES

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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

# CHAIN OF CUSTODY FORM

Quote #: _____ Page _____ of _____

Client Name/Address:
LAW Engineering
4634 S 36th Place
Phoenix, AZ 85040

Project/PO Number:
S Mesa WARF
76211-0-0150-02-2.2

Project Manager:
Jim Clarke

Phone Number:
602-437-0250

Sampler: Ron Bednar / Marsha Hart

Fax Number:

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date/Time | Preservatives | Analysis Required: 8260 | 625 | Metals (5) | | | | | | | | | Special Instructions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW1D MW2D* | water | 2 VOA | 2 | 7-26-00 | HCL | X | | | | | | PSJ0418-01 | | | PSJ0406-01 | |
| " | $H_2O$ | 2 1 Liter amber | 1 | " noon " | None | | X | | | | | | | | | | |
| " | $H_2O$ | 500 ml Poly | 1 | " " | Nitric | | | X | | | | | | | | | |
| Trip Blank | | | | | | X | | | | | | | | | | | -02 |
| | | | | | | | | | | | | | | | | | |
| * changed per Jim Clarke JMS 8/22/00 | | | | | | | | | | | | | | | | | |

Relinquished By: Marsha Hart Date /Time: July 26 00 1300
Received by: Date /Time:

Relinquished By: Date /Time:
Received by: Date /Time: 7-26-00

Relinquished By: Date /Time: 7-26-00
Received in Lab by: Jaime Wood Date /Time: 7-26-00 1300

Turnaround Time: (Check)
same day _____ 72 hours _____
24 hours _____ 5 days _____
48 hours _____ normal X

Sample Integrity: (Check)
intact X on ice X

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

COC-GB

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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

# CHAIN OF CUSTODY FORM

Quote #: _____ Page _____ of _____

Client Name/Address:
LAW Engineering
4634 S 36th Place
Phoenix, AZ 85040

Project/PO Number:
South Mesa WQARF
76211-0-0150-02-2.02

Project Manager:
Jim Clarke

Phone Number:
602-437-0250

Sampler: Ron Bednar / Marsha Hart

Fax Number:

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date/Time | Preservatives | 8260 | 625 | Metals (EXT) | Analysis Required | Special Instructions |
|---|---|---|---|---|---|---|---|---|---|---|
| MW1D MW2D* | Water | 2 VOA septatic | 2 | 7-26-00 | HCL | X | | | PSJ04118-01 | PSJ04406-01 |
| 11 | $H_2O$ | 2 1 liter amber | 1 | "noon" | None | | X | | | |
| 11 | $H_2O$ | 500 ml Poly | 1 | 11 11 | Nitric | | | X | | -02 |
| Trip Blank | | | | | | X | | | | |

* changed per Jim Clarke jms 8/22/00

Relinquished By: Marsha Hart Date /Time: July 26 00 1300

Received by: Date /Time:

Relinquished By: Date /Time:

Received by: Date /Time: 7-26-00

Relinquished By: Date /Time: 7-26-00

Received in Lab by: Jaime Wood Date /Time: 7-26-00 1300

Turnaround Time: (Check)
same day _____ 72 hours _____
24 hours _____ 5 days _____
48 hours _____ normal X

Sample Integrity: (Check)
intact X on ice X

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

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# ADDITIONAL ANALYSIS REQUEST FORM

Today's Date: 10/25/00 DMA Project Manager: Julie Sloan

Request via: X telephone ____ chain of custody form ____ fax transmission ____ E-mail ____ other

Client: LAW Contact: Jim Clarke

Project: PJG0406

Date Sampled: 7/26/00 Date Received: 7/26/00

Status: ___ in progress X completed ____ received today ___ received yesterday ____ on hold ____ other

| SAMPLE NUMBER | SAMPLE DESCRIPTION | ANALYSIS REQUESTED | SPECIAL REQUIREMENTS |
|---|---|---|---|
| PJG0406-01 | MW-2D | Lithium by FLAA | |
| | | | |
| | | | |
| | | | |
| | | | |
| use | digest from | PJG0406 | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

TURNAROUND: ___ SAME DAY X 24 HR. ___ 48 HR. ___ 3 DAY ___ 5 DAY ___ STND X NO RUSH CHARGES

Del Mar Analytical

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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

# CHAIN OF CUSTODY FORM

Quote #: _____ Page _____ of _____

Client Name/Address:
LAW Engineering
4634 S 36th Place
Phoenix, AZ 85040

Project/PO Number:
S Mesa Warrf
76211-0-0150-02-2.2

Project Manager:
Jim Clarke

Phone Number:
602-437-0250

Sampler: Ron Bednar / Marsha Hart

Fax Number:

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date/Time | Preservatives | 8260 | 625 | Metals (5 only) | | | | | | | | | Special Instructions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW1D MW2D* | Water | 2 VOA ~~septic~~ | 2 | 7-26-00 noon | HCL | X | | | | | | | PSJ04418-01 | | | PSJ04406-01 | |
| 11 | $H_2O$ | 2 liter amber | 1 | " | None | | X | | | | | | | | | ↓ | |
| 11 | $H_2O$ | 500 ml Poly | 1 | " | Nitric | | | X | | | | | | | | -02 | |
| Trip Blank | | | | | | X | | | | | | | | | | | |

* changed per Jim Clarke smw 8/23/00

Analysis Required

| Relinquished By: | Date /Time: | Received by: | Date /Time: |
|---|---|---|---|
| Marsha Hart | July 26 00 1300 | | |
| Relinquished By: | Date /Time: | Received by: | Date /Time: 7-26-00 |
| Relinquished By: JW | Date /Time: 7-26-00 | Received in Lab by: Jaime Wood | Date /Time: 7-26-00 1300 |

Turnaround Time: (Check)
same day _____ 72 hours _____
24 hours _____ 5 days _____
48 hours _____ normal X

Sample Integrity: (Check)
intact X on ice X

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

COC-GB

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| | | |
|---|---|---|
| Law Engineering<br>4634 S. 36th Place<br>Phoenix, AZ 85040<br>Attention: Jim Clarke | Client Project ID: 70211-0-0150-02-2.2<br>Report Number: PJJ0412 | Sampled: 07/05/00<br>Received: 10/25/00<br>Issued: 10/30/00<br>Revised: 11/16/00 |

# CASE NARRATIVE

| LABORATORY NUMBER | SAMPLE DESCRIPTION | SAMPLE MATRIX |
|---|---|---|
| PJJ0412-01 | WM-6D | Water |
| PJJ0412-02 | MW-AM-85 | Water |
| PJJ0412-03 | MW--95 | Water |

SAMPLE RECEIPT: Samples were received intact, on ice, and with chain of custody documentation.

HOLDING TIMES: Holding times were met.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: One or more method QC parameter exceeded acceptance limits. See Corrective Action Report.

OBSERVATIONS: Lithium was analyzed by Method 7430 which calls for Method 3005A as the digestion method. The associated samples were digested by Method 200.2 which is a slightly less rigourous digestion than 3005A, however the data should not be significantly impacted. Although samples do not meet method compliance, they do provide useful information.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

**DEL MAR ANALYTICAL , PHOENIX (AZ0426)**

Julie M. Slocum
Project Manager



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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2

Report Number: PJJ0412

Sampled: 07/05/00
Received: 10/25/00

## DISSOLVED METALS

| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJJ0412-01 (WM-6D - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2603 | 1.0 | ND | 1 | 7/10/00 | 10/26/00 | A-01,L,M2 |
| **Sample ID: PJJ0412-02 (MW-AM-85 - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2603 | 1.0 | ND | 1 | 7/10/00 | 10/26/00 | A-01,L |
| **Sample ID: PJJ0412-03 (MW--95 - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2603 | 1.0 | ND | 1 | 7/10/00 | 10/26/00 | A-01,L |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJJ0412

Sampled: 07/05/00
Received: 10/25/00

METHOD BLANK/QC DATA

# DISSOLVED METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0J2603 Extracted: 07/10/00** | | | | | | | | | | |
| **Blank Analyzed: 10/26/00 (P0J2603-BLK1)** | | | | | | | | | | |
| Lithium | ND | 1.0 | mg/l | | | | | | | |
| **LCS Analyzed: 10/26/00 (P0J2603-BS1)** | | | | | | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | | 120 | 85-115 | | | L |
| **LCS Dup Analyzed: 10/26/00 (P0J2603-BSD1)** | | | | | | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | | 120 | 85-115 | 0 | 20 | L |
| **Matrix Spike Analyzed: 10/26/00 (P0J2603-MS1)** | | | | | **Source: PJJ0412-01** | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | ND | 120 | 85-115 | | | M2 |
| **Matrix Spike Dup Analyzed: 10/26/00 (P0J2603-MSD1)** | | | | | **Source: PJJ0412-01** | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | ND | 120 | 85-115 | 0 | 20 | M2 |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2

Report Number: PJJ0412

Sampled: 07/05/00
Received: 10/25/00

METHOD BLANK/QC DATA

# DATA QUALIFIERS AND DEFINITIONS

**A-01** This analysis does not meet method compliance. See Case Narrative.

**L** Laboratory Control Sample recovery was above the method control limits. Analyte not detected, data not impacted.

**M2** Matrix Spike recovery was outside the method control limits. See Corrective Action Report.

**ND** Analyte NOT DETECTED at or above the reporting limit

**NR** Not reported.

**RPD** Relative Percent Difference

Julie M. Slocum
Project Manager



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# CORRECTIVE ACTION REPORT

| | | | |
|---|---|---|---|
| Department: | Metals | Method: | EPA 7430 |
| Date: | 10/26/00 | Matrix: | Solid |
| Batch(s): | P0J2603 & P0J2604 | | |
| Samples Affected: | PJJ0412-01 - PJJ0412-03, PJJ0413-01 - PJJ0413-03 and PJJ0413-06, PJJ0415-01 - PJJ0415-04 | | |

Identification and Definition of Problem:

The Laboratory Control Sample and Laboratory Control Sample Duplicate recovered high (120%) and outside of the 85-115% acceptance limits for lithium. The Matrix Spike and Matrix Spike Duplicate also recovered high (120%) and outside of the 85-115% acceptance limits for lithium.

Determination of the Cause of the Problem:

No apparent cause could be determined for the high recovery.

Corrective Action:

The LCS and LCS Duplicate were flagged with and "L" and the MS and MSD with and "M2" to indicate that these quality control samples were outside of method acceptance limits. All associated samples were non-detect for lithium and are therefore not impacted.

Elizabeth C. Wueschner: Nieva Hunter for Date: 10/31/2000
Quality Assurance Officer

Del Mar Analytical

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# ADDITIONAL ANALYSIS REQUEST FORM

Today's Date: 10/25/00 DMA Project Manager: JulieSlocum
Request via: X telephone ____ chain of custody form ____ fax transmission ____ E-mail ____ other
Client: LAW Contact: Jim Clarke
Project: PJG0032 South Mesa
Date Sampled: 7/5/00 Date Received: 7/5/00
Status: ___ in progress X completed ____ received today ___ received yesterday ____ on hold ____ other

| SAMPLE NUMBER | SAMPLE DESCRIPTION | ANALYSIS REQUESTED | SPECIAL REQUIREMENTS |
|---|---|---|---|
| PJG0032-01 | MW-6D | Lithium by FLAA | |
| -02 | MW-AM-BS | Lithium by FLAA | |
| -03 | MW-9S | Lithium by FLAA | |
| ~~~~~ | Trip Blank ~~ | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| Use digests Log in as new Job | | | |
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| | | | |
| | | | |
| | | | |
| | | | |

TURNAROUND: ___ SAME DAY X 24 HR. ___ 48 HR. ___ 3 DAY ___ 5 DAY ___ STND X NO RUSH CHARGES

Del Mar Analytical

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# CHAIN OF CUSTODY FORM

Quote #: _____ Page _____ of _____

Client Name/Address:
LAW Engineering
4634 S 36th Place
Phoenix, AZ 85008

Project/PO Number:
70211-0-0150-02-2.2

Project Manager: Jim Clarke

Phone Number:
602-437-0250

Sampler: Ron Bednar

Fax Number:
602-457-

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date/Time | Preservatives | 8260 | Metals | 625 | Special Instructions |
|---|---|---|---|---|---|---|---|---|---|
| MW-6D | Water | clear VOA | 2 | 7/5/00 11:06 | HCL | X | | | PJ60412-01 PJ60032-01 |
| [redacted] " | water | 500ml Poly | 1 | " | HNO3 | | X | | |
| " | water | 1L Amber | 2 | " | None | | | X | |
| MW-AM-8S | water | clear VOA | 2 | 7/5/00 13:00 | HCL | X | | | -02 -02 |
| MW-AM-8S | water | 500ml poly | 1 | 7/5/00 13:00 | $HNO^3$ | | X | | |
| MW-AM-8S | water | 1L Amber | 2 | 7/5/00 13:00 | None | | | X | |
| MW-9S | water | clear VOA | 2 | 7/5/00 15:00 | HCL | X | | | -03 -03 |
| MW-9S | Water | 500ml poly | 1 | 7/5/00 15:00 | HNO3 | | X | | |
| MW-9S | water | 1L Amber | 2 | 7/5/00 15:00 | None | | | X | |
| Trip Blank | | | 1 | | | X | | | -04 |

| Relinquished By: | Date /Time: | Received by: | Date /Time: |
|---|---|---|---|
| [signature] | 7/5/00 17:45 | [signature] | 7/5/00 |
| Relinquished By: | Date /Time: | Received by: | Date /Time: |
| [signature] | 7/5/00 | [signature] | |
| Relinquished By: | Date /Time: | Received in Lab by: | Date /Time: |
| [signature] | | [signature] | 7/5/00 1745 |

Turnaround Time: (Check)
same day _____ 72 hours _____
24 hours _____ 5 days _____
48 hours _____ normal X

Sample Integrity: (Check)
intact X on ice X

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

COC-GB

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| | | |
|---|---|---|
| Law Engineering<br>4634 S. 36th Place<br>Phoenix, AZ 85040<br>Attention: Jim Clarke | Client Project ID: South Mesa/70211-0-0150<br>Report Number: PJJ0413 | Sampled: 07/06/00<br>Received: 10/25/00<br>Issued: 10/30/00 |

# CASE NARRATIVE

| LABORATORY NUMBER | SAMPLE DESCRIPTION | SAMPLE MATRIX |
|---|---|---|
| PJJ0413-01 | MW-1S | Water |
| PJJ0413-02 | MW-1D | Water |
| PJJ0413-03 | MW-5S | Water |
| PJJ0413-04 | MW-5D | Water |
| PJJ0413-05 | MW-10D | Water |
| PJJ0413-06 | SRP 28E-ON | Water |

SAMPLE RECEIPT: Samples were received intact, on ice, and with chain of custody documentation.

HOLDING TIMES: Holding times were met.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: One or more method QC parameter exceeded acceptance limits. See Corrective Action Report.

OBSERVATIONS: Lithium was analyzed by Method 7430 which calls for Method 3005A as the digestion method. The associated samples were digested by Method 200.2 which is a slightly less rigourous digestion than 3005A, however the data should not be significantly impacted. Although samples do not meet method compliance, they do provide useful information. Two samples were analyzed by ICP method 200.7, all QC met criteria, but 200.7 is not a recognized method for Lithium.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

**DEL MAR ANALYTICAL , PHOENIX (AZ0426)**

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: South Mesa/70211-0-0150
Report Number: PJJ0413

Sampled: 07/06/00
Received: 10/25/00

## TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJJ0413-04 (MW-5D - Water)** | | | | | | | | |
| Lithium | EPA 200.7 | P0J2604 | 0.50 | ND | 1 | 7/11/00 | 7/12/00 | A-01,C |
| **Sample ID: PJJ0413-05 (MW-10D - Water)** | | | | | | | | |
| Lithium | EPA 200.7 | P0J2604 | 0.50 | ND | 1 | 7/11/00 | 7/12/00 | A-01,C |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: South Mesa/70211-0-0150

Report Number: PJJ0413

Sampled: 07/06/00
Received: 10/25/00

## DISSOLVED METALS

| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJJ0413-01 (MW-1S - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2604 | 1.0 | ND | 1 | 7/11/00 | 10/26/00 | A-01,L |
| **Sample ID: PJJ0413-02 (MW-1D - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2604 | 1.0 | ND | 1 | 7/11/00 | 10/26/00 | A-01,L,M2 |
| **Sample ID: PJJ0413-03 (MW-5S - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2604 | 1.0 | ND | 1 | 7/11/00 | 10/26/00 | A-01,L |
| **Sample ID: PJJ0413-06 (SRP 28E-ON - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2604 | 1.0 | ND | 1 | 7/11/00 | 10/26/00 | A-01,L |



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: South Mesa/70211-0-0150
Report Number: PJJ0413

Sampled: 07/06/00
Received: 10/25/00

METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0J2604 Extracted: 07/11/00** | | | | | | | | | | |
| **Blank Analyzed: 07/12/00 (P0J2604-BLK1)** | | | | | | | | | | |
| Lithium | ND | 0.50 | mg/l | | | | | | | |
| **LCS Analyzed: 07/12/00 (P0J2604-BS1)** | | | | | | | | | | |
| **Lithium** | **0.517** | 0.50 | mg/l | 0.500 | | 103 | 85-115 | | | |
| **LCS Dup Analyzed: 07/12/00 (P0J2604-BSD1)** | | | | | | | | | | |
| **Lithium** | **0.513** | 0.50 | mg/l | 0.500 | | 103 | 85-115 | 0.777 | 20 | |
| **Matrix Spike Analyzed: 07/12/00 (P0J2604-MS1)** | | | | | **Source: PJJ0413-02** | | | | | |
| **Lithium** | **0.911** | 0.50 | mg/l | 0.500 | ND | 122 | 70-130 | | | |
| **Matrix Spike Dup Analyzed: 07/12/00 (P0J2604-MSD1)** | | | | | **Source: PJJ0413-02** | | | | | |
| **Lithium** | **0.874** | 0.50 | mg/l | 0.500 | ND | 115 | 70-130 | 4.15 | 20 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: South Mesa/70211-0-0150
Report Number: PJJ0413

Sampled: 07/06/00
Received: 10/25/00

METHOD BLANK/QC DATA

## DISSOLVED METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0J2604 Extracted: 07/11/00** | | | | | | | | | | |
| **Blank Analyzed: 10/26/00 (P0J2604-BLK1)** | | | | | | | | | | |
| Lithium | ND | 1.0 | mg/l | | | | | | | |
| **LCS Analyzed: 10/26/00 (P0J2604-BS1)** | | | | | | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | | 120 | 85-115 | | | L |
| **LCS Dup Analyzed: 10/26/00 (P0J2604-BSD1)** | | | | | | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | | 120 | 85-115 | 0 | 20 | L |
| **Matrix Spike Analyzed: 10/26/00 (P0J2604-MS1)** | | | | | **Source: PJJ0413-02** | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | ND | 120 | 85-115 | | | M2 |
| **Matrix Spike Dup Analyzed: 10/26/00 (P0J2604-MSD1)** | | | | | **Source: PJJ0413-02** | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | ND | 120 | 85-115 | 0 | 20 | M2 |

Julie M. Slocum
Project Manager



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| | | |
|---|---|---|
| Law Engineering<br>4634 S. 36th Place<br>Phoenix, AZ 85040<br>Attention: Jim Clarke | Client Project ID: South Mesa/70211-0-0150<br>Report Number: PJJ0413 | Sampled: 07/06/00<br>Received: 10/25/00 |

METHOD BLANK/QC DATA

# DATA QUALIFIERS AND DEFINITIONS

| | |
|---|---|
| **A-01** | This analysis does not meet method compliance. See Case Narrative. |
| **C** | Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted. |
| **L** | Laboratory Control Sample recovery was above the method control limits. Analyte not detected, data not impacted. |
| **M2** | Matrix Spike recovery was outside the method control limits. See Corrective Action Report. |
| **ND** | Analyte NOT DETECTED at or above the reporting limit |
| **NR** | Not reported. |
| **RPD** | Relative Percent Difference |

Julie M. Slocum
Project Manager



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# CORRECTIVE ACTION REPORT

| | | | |
|---|---|---|---|
| Department: | Metals | Method: | EPA 7430 |
| Date: | 10/26/00 | Matrix: | Solid |
| Batch(s): | P0J2603 & P0J2604 | | |
| Samples Affected: | PJJ0412-01 - PJJ0412-03, PJJ0413-01 - PJJ0413-03 and PJJ0413-06, PJJ0415-01 - PJJ0415-04 | | |

Identification and Definition of Problem:

The Laboratory Control Sample and Laboratory Control Sample Duplicate recovered high (120%) and outside of the 85-115% acceptance limits for lithium. The Matrix Spike and Matrix Spike Duplicate also recovered high (120%) and outside of the 85-115% acceptance limits for lithium.

Determination of the Cause of the Problem:

No apparent cause could be determined for the high recovery.

Corrective Action:

The LCS and LCS Duplicate were flagged with and "L" and the MS and MSD with and "M2" to indicate that these quality control samples were outside of method acceptance limits. All associated samples were non-detect for lithium and are therefore not impacted.

Elizabeth C. Wueschner: Ilisa Auster for Date: 10/31/2000
Quality Assurance Officer

Del Mar Analytical

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# ADDITIONAL ANALYSIS REQUEST FORM

Today's Date: 10/25/00 DMA Project Manager: Julie S.
Request via: X telephone ____ chain of custody form ____ fax transmission ____ E-mail ____ other
Client: LAW Contact: Jim Clarke
Project: PJG0053
Date Sampled: 7/6/00 Date Received: 7/6/00
Status: ___ in progress X completed ____ received today ____ received yesterday ____ on hold ____ other

| SAMPLE NUMBER | SAMPLE DESCRIPTION | ANALYSIS REQUESTED | SPECIAL REQUIREMENTS |
|---|---|---|---|
| PJG0053-01 | MW-1S | Lithium by FLAA | |
| -02 | MW-1D | Lithium by FLAA | |
| -03 | MW-5S | Lithium by FLAA | |
| -04 | MW-5D | Lithium by ICP | |
| -05 | MW-10D | Lithium by ICP | |
| -06 | SRP 28E-ON | Lithium by FLAA | |
| | | | |
| | | | |
| Use | digest for | all FLAA | |
| | | | |
| For samples -04 & -05 use | | | |
| ~~Estimated~~ ICP data from PJG0053-04,05 | | | |
| | ICP data & QC good! | | |
| | | | |

TURNAROUND: ___ SAME DAY X 24 HR. ___ 48 HR. ___ 3 DAY ___ 5 DAY ___ STND X NO RUSH CHARGES

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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

# CHAIN OF CUSTODY FORM

Quote #: _____ Page _____ of _____

Client Name/Address:
LAW Engineering
4634 S 36th Place
Phoenix, AZ 85008

Project/PO Number:
South Mesa
70211-0-0150

Project Manager: Jim Clark

Phone Number: 602-437-0250

Sampler: Ron Bednar

Fax Number: 604-437-

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date/Time | Preservatives | Analysis Required: 8260 | 625 | Metals (RCRA) | | | | | | | | | Special Instructions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-1S | Water | 2 Voa 2 L Amber 1 500 Poly | Total | 7/6/00 9:06 | HCL - VOA's Nano - Amber Nitric - Poly | X | X | X | | PJG00 | 53 | -01 | | PJ | J0413-01 | | |
| MW-1D | Water | " | " | 7/6/00 7:00 | " | X | X | X | | | | 02 | | | | | -02 |
| MW-5S | Water | " | " | 7/6/00 14:30 | " | X | X | X | | | | 03 | | | | | -03 |
| MW-5D | Water | " | " | 7/6/00 11:30 | " | X | X | X | | | | 04 | | | | | -04 |
| MW-10D | Water | " | " | 7/6/00 12:30 | " | X | X | X | | | | 05 | | | | | -05 |
| SRP 28E-0N | Water | " | " | 7/6/00 11:30 | " | X | X | X | | | | 06 | | | | | -06 |
| Trip | | | | | | X | | | | | | 07 | | | | | -07 |

Relinquished By: [signature] 7/6/00 Date /Time: 15:35pm
Received by: [signature] Date /Time: 7-6-00 17:35

Relinquished By: [signature] Date /Time: 7-6-00
Received by: [signature] Date /Time:

Relinquished By: [signature] Date /Time:
Received in Lab by: [signature] Date /Time: 7-6-00 17:35

Turnaround Time: (Check)
same day _____ 72 hours _____
24 hours _____ 5 days _____
48 hours _____ normal X

Sample Integrity: (Check)
intact X on ice X

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

COC-GB

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| | | |
|---|---|---|
| Law Engineering<br>4634 S. 36th Place<br>Phoenix, AZ 85040<br>Attention: Jim Clarke | Client Project ID: 70211-0-0150-02-2.2<br>Report Number: PJJ0415 | Sampled: 07/07/00<br>Received: 10/25/00<br>Issued: 10/30/00 |

# CASE NARRATIVE

| LABORATORY NUMBER | SAMPLE DESCRIPTION | SAMPLE MATRIX |
|---|---|---|
| PJJ0415-01 | MW-LW | Water |
| PJJ0415-02 | MW-4S | Water |
| PJJ0415-03 | MW-3S | Water |
| PJJ0415-04 | MW-7D | Water |

SAMPLE RECEIPT: Samples were received intact, on ice, and with chain of custody documentation.

HOLDING TIMES: Holding times were met.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: One or more method QC parameter exceeded acceptance limits. See Corrective Action Report.

OBSERVATIONS: Lithium was analyzed by Method 7430 which calls for Method 3005A as the digestion method. The associated samples were digested by Method 200.2 which is a slightly less rigourous digestion than 3005A, however the data should not be significantly impacted. Although samples do not meet method compliance, they do provide useful information.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

**DEL MAR ANALYTICAL , PHOENIX (AZ0426)**

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2

Report Number: PJJ0415

Sampled: 07/07/00
Received: 10/25/00

## DISSOLVED METALS

| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJJ0415-01 (MW-LN - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2604 | 1.0 | ND | 1 | 7/11/00 | 10/26/00 | A-01,L |
| **Sample ID: PJJ0415-02 (MW-4S - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2604 | 1.0 | ND | 1 | 7/11/00 | 10/26/00 | A-01,L |
| **Sample ID: PJJ0415-03 (MW-3S - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2604 | 1.0 | ND | 1 | 7/11/00 | 10/26/00 | A-01,L |
| **Sample ID: PJJ0415-04 (MW-7D - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2604 | 1.0 | ND | 1 | 7/11/00 | 10/26/00 | A-01,L |

**DEL MAR ANALYTICAL, PHOENIX (AZ0426)**

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJJ0415

Sampled: 07/07/00
Received: 10/25/00

METHOD BLANK/QC DATA

## DISSOLVED METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0J2604 Extracted: 07/11/00** | | | | | | | | | | |
| **Blank Analyzed: 10/26/00 (P0J2604-BLK1)** | | | | | | | | | | |
| Lithium | ND | 1.0 | mg/l | | | | | | | |
| **LCS Analyzed: 10/26/00 (P0J2604-BS1)** | | | | | | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | | 120 | 85-115 | | | L |
| **LCS Dup Analyzed: 10/26/00 (P0J2604-BSD1)** | | | | | | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | | 120 | 85-115 | 0 | 20 | L |
| **Matrix Spike Analyzed: 10/26/00 (P0J2604-MS1)** | | | | | **Source: PJJ0413-02** | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | ND | 120 | 85-115 | | | M2 |
| **Matrix Spike Dup Analyzed: 10/26/00 (P0J2604-MSD1)** | | | | | **Source: PJJ0413-02** | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | ND | 120 | 85-115 | 0 | 20 | M2 |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2

Report Number: PJJ0415

Sampled: 07/07/00
Received: 10/25/00

METHOD BLANK/QC DATA

# DATA QUALIFIERS AND DEFINITIONS

**A-01** This analysis does not meet method compliance. See Case Narrative.

**L** Laboratory Control Sample recovery was above the method control limits. Analyte not detected, data not impacted.

**M2** Matrix Spike recovery was outside the method control limits. See Corrective Action Report.

**ND** Analyte NOT DETECTED at or above the reporting limit

**NR** Not reported.

**RPD** Relative Percent Difference

Julie M. Slocum
Project Manager



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# CORRECTIVE ACTION REPORT

| | | | |
|---|---|---|---|
| Department: | Metals | Method: | EPA 7430 |
| Date: | 10/26/00 | Matrix: | Solid |
| Batch(s): | P0J2603 & P0J2604 | | |
| Samples Affected: | PJJ0412-01 - PJJ0412-03, PJJ0413-01 - PJJ0413-03 and PJJ0413-06, PJJ0415-01 - PJJ0415-04 | | |

Identification and Definition of Problem:

The Laboratory Control Sample and Laboratory Control Sample Duplicate recovered high (120%) and outside of the 85-115% acceptance limits for lithium. The Matrix Spike and Matrix Spike Duplicate also recovered high (120%) and outside of the 85-115% acceptance limits for lithium.

Determination of the Cause of the Problem:

No apparent cause could be determined for the high recovery.

Corrective Action:

The LCS and LCS Duplicate were flagged with and "L" and the MS and MSD with and "M2" to indicate that these quality control samples were outside of method acceptance limits. All associated samples were non-detect for lithium and are therefore not impacted.

Elizabeth C. Wueschner: Vera Hunter for Date: 10/31/2000
Quality Assurance Officer

Del Mar Analytical

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# ADDITIONAL ANALYSIS REQUEST FORM

Today's Date: 10/25/00 DMA Project Manager: Julie S.

Request via: X telephone ____ chain of custody form ____ fax transmission ____ E-mail ____ other

Client: LAW Contact: Jim Clarke

Project: PJG0078 South Mesa

Date Sampled: 10/7/00 Date Received: 10/7/00

Status: ____ in progress ____ completed ____ received today ____ received yesterday ____ on hold ____ other

| SAMPLE NUMBER | SAMPLE DESCRIPTION | ANALYSIS REQUESTED | SPECIAL REQUIREMENTS |
|---|---|---|---|
| PJG0078-01 | MW-LW | Lithium by FLAA | |
| -02 | MW-1S | Lithium by FLAA | |
| -03 | MW-3S | Lithium by FLAA | |
| -04 | MW-7D | Lithium by FLAA | |
| | | | |
| | | | |
| | | | |
| | | | |
| | Use Digest | from PJG0078 | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

TURNAROUND: ___ SAME DAY X 24 HR. ___ 48 HR. ___ 3 DAY ___ 5 DAY ___ STND X NO RUSH CHARGES

Del Mar Analytical

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# CHAIN OF CUSTODY FORM

Quote #: _____ Page _____ of _____

Client Name/Address: [redacted] / LAW Engineering, 4634 S 36th Place, Phoenix, AZ 85008

Project/PO Number: 70211-0-0150-02-2.2

Project Manager: Jim Clark

Phone Number: 602-437-0250

Sampler: Ron Bodnar

Fax Number: 602-437-3675

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date/Time | Preservatives | Analysis Required: 8260 | 625 | Metals | Special Instructions |
|---|---|---|---|---|---|---|---|---|---|
| MW-LW | Water | 2 40ml VOA, 2 1L Amber, 2 poly | 5 | 7/7/00 14:30 | VOA - HCL, Amber - none, poly - Nitric | X | X | X | PJ60078-01 PJ5J04150 |
| MW-4S | Water | " | 5 | ~~7/7/00~~ 7/7/00 10:15 | " | X | X | X | -02 2 |
| MW-3S | Water | " | 11 | 7/7/00 7:30 | " | X | X | X | -03 3 |
| MW-7D | Water | " | " | 7/7/00 08:00 | " | X | X | X | -04 4 |
| TRIP | " | | | | | X | | | 5 |

Relinquished By: [signature] Date/Time: 7/7/00 17:15

Received by: _____ Date/Time: _____

Relinquished By: _____ Date/Time: _____

Received by: _____ Date/Time: 7/7/00

Relinquished By: _____ Date/Time: 7/7/00

Received in Lab by: [signature] Date/Time: 7/7/00 1715

Turnaround Time: (Check)
same day _____ 72 hours _____
24 hours _____ 5 days _____
48 hours _____ normal X

Sample Integrity: (Check)
intact X on ice X

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

COC-GB

Del Mar Analytical

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| | | |
|---|---|---|
| Law Engineering<br>4634 S. 36th Place<br>Phoenix, AZ 85040<br>Attention: Jim Clarke | Client Project ID: S Mesa WQARF/70211-0-0150-02-2.2<br>Report Number: PJJ0418 | Sampled: 07/26/00<br>Received: 07/26/00<br>Issued: 10/30/00<br>Revised: 12/12/00 |

# CASE NARRATIVE

| LABORATORY NUMBER | SAMPLE DESCRIPTION | SAMPLE MATRIX |
|---|---|---|
| PJJ0418-01 | MW1D MW2D | Water |

SAMPLE RECEIPT: Samples were received intact, on ice, and with chain of custody documentation. Samples were orginally received on 7/26/00 but were not logged in for Lithium until 10/25/00.

HOLDING TIMES: Holding times were met.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: Although samples are not compliant because a different digestion was used, the associated QC met criteria, providing useful results.

OBSERVATIONS: Lithium was analyzed by Method 7430 which calls for Method 3005A as the digestion method. The associated samples were digested by Method 200.2 which is a slightly less rigourous digestion than 3005A, however the data should not be significantly impacted.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

**DEL MAR ANALYTICAL , PHOENIX (AZ0426)**

Julie M. Slocum
Project Manager



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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: S Mesa WQARF/70211-0-0150-02-2.2
Report Number: PJJ0418

Sampled: 07/26/00
Received: 07/26/00

## TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJJ0418-01 (MW1D MW2D - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2606 | 1.0 | ND | 1 | 7/27/00 | 10/26/00 | A-01,M |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: S Mesa WQARF/70211-0-0150-02-2.2
Report Number: PJJ0418

Sampled: 07/26/00
Received: 07/26/00

METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0J2606 Extracted: 07/27/00** | | | | | | | | | | |
| **Blank Analyzed: 10/26/00 (P0J2606-BLK1)** | | | | | | | | | | |
| Lithium | ND | 1.0 | mg/l | | | | | | | |
| **LCS Analyzed: 10/26/00 (P0J2606-BS1)** | | | | | | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | | 100 | 85-115 | | | |
| **LCS Dup Analyzed: 10/26/00 (P0J2606-BSD1)** | | | | | | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | | 100 | 85-115 | 0 | 20 | |
| **Matrix Spike Analyzed: 10/26/00 (P0J2606-MS1)** | | | | | **Source: PJJ0418-01** | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | ND | 120 | 85-115 | | | M |
| **Matrix Spike Dup Analyzed: 10/26/00 (P0J2606-MSD1)** | | | | | **Source: PJJ0418-01** | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | ND | 120 | 85-115 | 0 | 20 | M |

Julie M. Slocum
Project Manager



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| | | |
|---|---|---|
| Law Engineering<br>4634 S. 36th Place<br>Phoenix, AZ 85040<br>Attention: Jim Clarke | Client Project ID: S Mesa WQARF/70211-0-0150-02-2.2<br>Report Number: PJJ0418 | Sampled: 07/26/00<br>Received: 07/26/00 |

[redacted]

# DATA QUALIFIERS AND DEFINITIONS

**A-01** This analysis does not meet method compliance. See Case Narrative.

**M** The MS and/or MSD were outside of the acceptance limits due to sample matrix interference. See Blank Spike (LCS).

**ND** Analyte NOT DETECTED at or above the reporting limit

**NR** Not reported.

**RPD** Relative Percent Difference

Julie M. Slocum
Project Manager



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9830 South 51st Street, Phoenix, AZ 85044 (602) 785-0043 FAX (602) 785-0851

# ADDITIONAL ANALYSIS REQUEST FORM

Today's Date: 10/25/00 DMA Project Manager: Julie Sloan
Request via: X telephone ____ chain of custody form ____ fax transmission ____ E-mail ____ other
Client: LAW Contact: Jim Clarke
Project: PJG0406
Date Sampled: 7/26/00 Date Received: 7/26/00
Status: ___ in progress X completed ____ received today ____ received yesterday ____ on hold ____ other

| SAMPLE NUMBER | SAMPLE DESCRIPTION | ANALYSIS REQUESTED | SPECIAL REQUIREMENTS |
|---|---|---|---|
| PJG0406-01 | MW2D | Lithium by FLAA | |
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| | | | |
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| use | digest from | PJG0406 | |
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TURNAROUND: ___ SAME DAY ___ X 24 HR. ___ 48 HR. ___ 3 DAY ___ 5 DAY ___ STND X NO RUSH CHARGES

Del Mar Analytical

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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

# CHAIN OF CUSTODY FORM

Quote #: _____ Page _____ of _____

Client Name/Address:
LAW Engineering
4634 S 36th Place
Phoenix, AZ 85040

Project/PO Number:
70211-0-0150-02-2.2
S Mesa WQARF

Project Manager:
Jim Clarke

Phone Number:
602-437-0250

Sampler: Ron Bednar / Marsha Hart

Fax Number:

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date/Time | Preservatives | 8260 | 625 | Metals (5) | | | | | | | | | Special Instructions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW1D MW2D* | Water | 2 VOA | 2 | 7-26-00 | HCL | X | | | | | | PJ J04 18-01 | | | | PJ J04106-01 |
| 11 | $H_2O$ | 2 liter amber | 1 | "noon" | *None | | X | | | | | | | | | | ↓ |
| 11 | $H_2O$ | 500 mL Poly | 1 | 11 11 | Nitric | | | X | | | | | | | | | -02 |
| Trip Blank | | | | | | X | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| * changed per Jim Clarke 8/22/00 jmc | | | | | | | | | | | | | | | | | |
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Analysis Required

| Relinquished By: | Date /Time: | Received by: | Date /Time: |
|---|---|---|---|
| Marsha Hart | July 26 00 1300 | | |
| Relinquished By: | Date /Time: | Received by: | Date /Time: |
| | | | 7-26-00 |
| Relinquished By: | Date /Time: | Received in Lab by: | Date /Time: |
| JW | 7-26-00 | Jaime Wood | 7-26-00 1300 |

Turnaround Time: (Check)
same day _____ 72 hours _____
24 hours _____ 5 days _____
48 hours _____ normal X

Sample Integrity: (Check)
intact X on ice X

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

COC-GB

Del Mar Analytical

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| | | |
|---|---|---|
| Law Engineering<br>4634 S. 36th Place<br>Phoenix, AZ 85040<br>Attention: Jim Clarke | Client Project ID: South Mesa/70211-0-0150<br>Report Number: PJJ0413 | Sampled: 07/06/00<br>Received: 07/06/00<br>Issued: 10/30/00<br>Revised: 12/12/00 |

# CASE NARRATIVE

| LABORATORY NUMBER | SAMPLE DESCRIPTION | SAMPLE MATRIX |
|---|---|---|
| PJJ0413-01 | MW-1S | Water |
| PJJ0413-02 | MW-1D | Water |
| PJJ0413-03 | MW-5S | Water |
| PJJ0413-04 | MW-5D | Water |
| PJJ0413-05 | MW-10D | Water |
| PJJ0413-06 | SRP 28E-ON | Water |

SAMPLE RECEIPT: Samples were received intact, on ice, and with chain of custody documentation. Samples were orginally received on 7/06/00 but were not logged in for Lithium until 10/25/00.

HOLDING TIMES: Holding times were met.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: One or more method QC parameter exceeded acceptance limits. See Corrective Action Report.

OBSERVATIONS: Lithium was analyzed by Method 7430 which calls for Method 3005A as the digestion method. The associated samples were digested by Method 200.2 which is a slightly less rigourous digestion than 3005A, however the data should not be significantly impacted. Although samples do not meet method compliance, they do provide useful information. Two samples were analyzed by ICP method 200.7. This method is not recognized for lithium, but the associated QC met the 200.7 criteria.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

**DEL MAR ANALYTICAL , PHOENIX (AZ0426)**

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: South Mesa/70211-0-0150
Report Number: PJJ0413

Sampled: 07/06/00
Received: 07/06/00

## TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJJ0413-01 (MW-1S - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2604 | 1.0 | ND | 1 | 7/11/00 | 10/26/00 | A-01,L |
| **Sample ID: PJJ0413-02 (MW-1D - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2604 | 1.0 | ND | 1 | 7/11/00 | 10/26/00 | A-01,L,M2 |
| **Sample ID: PJJ0413-03 (MW-5S - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2604 | 1.0 | ND | 1 | 7/11/00 | 10/26/00 | A-01,L |
| **Sample ID: PJJ0413-04 (MW-5D - Water)** | | | | | | | | |
| Lithium | EPA 200.7 | P0J2604 | 0.50 | ND | 1 | 7/11/00 | 7/12/00 | A-01,C |
| **Sample ID: PJJ0413-05 (MW-10D - Water)** | | | | | | | | |
| Lithium | EPA 200.7 | P0J2604 | 0.50 | ND | 1 | 7/11/00 | 7/12/00 | A-01,C |
| **Sample ID: PJJ0413-06 (SRP 28E-ON - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2604 | 1.0 | ND | 1 | 7/11/00 | 10/26/00 | A-01,L |

**DEL MAR ANALYTICAL, PHOENIX (AZ0426)**

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: South Mesa/70211-0-0150
Report Number: PJJ0413

Sampled: 07/06/00
Received: 07/06/00

METHOD BLANK QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0J2604 Extracted: 07/11/00** | | | | | | | | | | |
| **Blank Analyzed: 07/12/00 (P0J2604-BLK1)** | | | | | | | | | | |
| Lithium | ND | 0.50 | mg/l | | | | | | | |
| Lithium | ND | 1.0 | mg/l | | | | | | | |
| **LCS Analyzed: 07/12/00 (P0J2604-BS1)** | | | | | | | | | | |
| **Lithium** | **0.517** | 0.50 | mg/l | 0.500 | | 103 | 85-115 | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | | 120 | 85-115 | | | L |
| **LCS Dup Analyzed: 07/12/00 (P0J2604-BSD1)** | | | | | | | | | | |
| **Lithium** | **0.513** | 0.50 | mg/l | 0.500 | | 103 | 85-115 | 0.777 | 20 | |
| Lithium | ND | 1.0 | mg/l | 0.500 | | 120 | 85-115 | 0 | 20 | L |
| **Matrix Spike Analyzed: 07/12/00 (P0J2604-MS1)** | | | | | **Source: PJJ0413-02** | | | | | |
| **Lithium** | **0.911** | 0.50 | mg/l | 0.500 | ND | 122 | 70-130 | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | ND | 120 | 85-115 | | | M2 |
| **Matrix Spike Dup Analyzed: 07/12/00 (P0J2604-MSD1)** | | | | | **Source: PJJ0413-02** | | | | | |
| **Lithium** | **0.874** | 0.50 | mg/l | 0.500 | ND | 115 | 70-130 | 4.15 | 20 | |
| Lithium | ND | 1.0 | mg/l | 0.500 | ND | 120 | 85-115 | 0 | 20 | M2 |

Julie M. Slocum
Project Manager



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| | | |
|---|---|---|
| Law Engineering<br>4634 S. 36th Place<br>Phoenix, AZ 85040<br>Attention: Jim Clarke | Client Project ID: South Mesa/70211-0-0150<br>Report Number: PJJ0413 | Sampled: 07/06/00<br>Received: 07/06/00 |

METHOD BLANK/QC DATA

# DATA QUALIFIERS AND DEFINITIONS

| | |
|---|---|
| **A-01** | This analysis does not meet method compliance. See Case Narrative. |
| **C** | Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted. |
| **L** | Laboratory Control Sample recovery was above the method control limits. Analyte not detected, data not impacted. |
| **M2** | Matrix Spike recovery was outside the method control limits. See Corrective Action Report. |
| **ND** | Analyte NOT DETECTED at or above the reporting limit |
| **NR** | Not reported. |
| **RPD** | Relative Percent Difference |

Julie M. Slocum
Project Manager



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# CORRECTIVE ACTION REPORT

Department: Metals
Method: EPA 7430
Date: 10/26/00
Matrix: Solid
Batch(s): P0J2603 & P0J2604
Samples Affected: PJJ0412-01 - PJJ0412-03, PJJ0413-01 - PJJ0413-03 and PJJ0413-06, PJJ0415-01 - PJJ0415-04

Identification and Definition of Problem:

The Laboratory Control Sample and Laboratory Control Sample Duplicate recovered high (120%) and outside of the 85-115% acceptance limits for lithium. The Matrix Spike and Matrix Spike Duplicate also recovered high (120%) and outside of the 85-115% acceptance limits for lithium.

Determination of the Cause of the Problem:

No apparent cause could be determined for the high recovery.

Corrective Action:

The LCS and LCS Duplicate were flagged with and "L" and the MS and MSD with and "M2" to indicate that these quality control samples were outside of method acceptance limits. All associated samples were non-detect for lithium and are therefore not impacted.

Elizabeth C. Wueschner: Nina Austin for Date: 10/31/2000
Quality Assurance Officer

Del Mar Analytical

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# ADDITIONAL ANALYSIS REQUEST FORM

Today's Date: 10/25/00 DMA Project Manager: Julie S.
Request via: X telephone ____ chain of custody form ____ fax transmission ____ E-mail ____ other
Client: LAW Contact: Jim Clarke
Project: PJG0053
Date Sampled: 7/6/00 Date Received: 7/6/00
Status: ___ in progress X completed ____ received today ___ received yesterday ____ on hold ____ other

| SAMPLE NUMBER | SAMPLE DESCRIPTION | ANALYSIS REQUESTED | SPECIAL REQUIREMENTS |
|---|---|---|---|
| PJG0053-01 | MW-1S | Lithium by FLAA | |
| -02 | MW-1D | Lithium by FLAA | |
| -03 | MW-5S | Lithium by FLAA | |
| -04 | MW-5D | Lithium by ICP | |
| -05 | MW-10D | Lithium by ICP | |
| -06 | SRP 28E-ON | Lithium by FLAA | |
| | | | |
| | | | |
| Use | digest for | all FLAA | |
| | | | |
| For samples -04 & -05 use | | | |
| ~~Estimated~~ ICP data from PJG0053-04,05 | | | |
| | ICP data & QC good! | | |
| | | | |

TURNAROUND: ___ SAME DAY X 24 HR. ___ 48 HR. ___ 3 DAY ___ 5 DAY ___ STND X NO RUSH CHARGES

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# CHAIN OF CUSTODY FORM

Quote #: _____ Page _____ of _____

Client Name/Address:
LAW Engineering
4634 S 36th Place
Phoenix, AZ 85008

Project/PO Number:
South Mesa
70211-0-0150

Project Manager: Jim Clark

Phone Number:
602-437-0250

Sampler: Ron Bednar

Fax Number:
604-437-

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date/Time | Preservatives | Analysis Required: 8260 | 625 | Metals (RCRA) | | | | | | | | | Special Instructions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-1S | Water | 2 VOA 2 L Amber 1 500 Poly | 5 total | 7/6/00 9:06 | HCL - VOA's None - Amber Nitric - Poly | X | X | X | | PJG0053 | | | | -01 | | PJJ0413-01 | |
| MW-1D | Water | " | " | 7/6/00 7:00 | " | X | X | X | | | | | | 02 | | | -02 |
| MW-5S | Water | " | " | 7/6/00 14:30 | " | X | X | X | | | | | | 03 | | | -03 |
| MW-5D | Water | " | " | 7/6/00 11:30 | " | X | X | X | | | | | | 04 | | | -04 |
| MW-10D | Water | " | " | 7/6/00 12:30 | " | X | X | X | | | | | | 05 | | | -05 |
| SRP 28E-0N | Water | " | " | 7/6/00 11:30 | " | X | X | X | | | | | | 06 | | | -06 |
| Trip | | | | | | X | | | | | | | | 07 | | | -07 |

Relinquished By: [redacted] 7/6/00 Date /Time: 15:35pm
Received by: Date /Time: 7-6-00 17:35

Relinquished By: Date /Time: 7-6-00
Received by: Date /Time:

Relinquished By: Date /Time:
Received in Lab by: Date /Time: 7-6-00 17:35

Turnaround Time: (Check)
same day _____ 72 hours _____
24 hours _____ 5 days _____
48 hours _____ normal X

Sample Integrity: (Check)
intact X on ice X

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

COC-GB

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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

| | | |
|---|---|---|
| Law Engineering<br>4634 S. 36th Place<br>Phoenix, AZ 85040<br>Attention: Jim Clarke | Client Project ID: 70211-0-0150-02-2.2<br>Report Number: PJJ0412 | Sampled: 07/05/00<br>Received: 07/05/00<br>Issued: 10/30/00<br>Revised: 12/12/00 |

# CASE NARRATIVE

| LABORATORY NUMBER | SAMPLE DESCRIPTION | SAMPLE MATRIX |
|---|---|---|
| PJJ0412-01 | WM-6D | Water |
| PJJ0412-02 | MW-AM-85 | Water |
| PJJ0412-03 | MW--95 | Water |

SAMPLE RECEIPT: Samples were received intact, on ice, and with chain of custody documentation. Samples were orginally received on 7/05/00 but were not logged in for Lithium until 10/25/00.

HOLDING TIMES: Holding times were met.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: One or more method QC parameter exceeded acceptance limits. See Corrective Action Report.

OBSERVATIONS: Lithium was analyzed by Method 7430 which calls for Method 3005A as the digestion method. The associated samples were digested by Method 200.2 which is a slightly less rigourous digestion than 3005A, however the data should not be significantly impacted. Although samples do not meet method compliance, they do provide useful information.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

**DEL MAR ANALYTICAL , PHOENIX (AZ0426)**

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJJ0412

Sampled: 07/05/00
Received: 07/05/00

## TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJJ0412-01 (WM-6D - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2603 | 1.0 | ND | 1 | 7/10/00 | 10/26/00 | A-01,L,M2 |
| **Sample ID: PJJ0412-02 (MW-AM-85 - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2603 | 1.0 | ND | 1 | 7/10/00 | 10/26/00 | A-01,L |
| **Sample ID: PJJ0412-03 (MW--95 - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2603 | 1.0 | ND | 1 | 7/10/00 | 10/26/00 | A-01,L |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJJ0412

Sampled: 07/05/00
Received: 07/05/00

METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0J2603 Extracted: 07/10/00** | | | | | | | | | | |
| **Blank Analyzed: 10/26/00 (P0J2603-BLK1)** | | | | | | | | | | |
| Lithium | ND | 1.0 | mg/l | | | | | | | |
| **LCS Analyzed: 10/26/00 (P0J2603-BS1)** | | | | | | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | | 120 | 85-115 | | | L |
| **LCS Dup Analyzed: 10/26/00 (P0J2603-BSD1)** | | | | | | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | | 120 | 85-115 | 0 | 20 | L |
| **Matrix Spike Analyzed: 10/26/00 (P0J2603-MS1)** | | | | | **Source: PJJ0412-01** | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | ND | 120 | 85-115 | | | M2 |
| **Matrix Spike Dup Analyzed: 10/26/00 (P0J2603-MSD1)** | | | | | **Source: PJJ0412-01** | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | ND | 120 | 85-115 | 0 | 20 | M2 |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2

Report Number: PJJ0412

Sampled: 07/05/00
Received: 07/05/00

METHOD BLANK/QC DATA

# DATA QUALIFIERS AND DEFINITIONS

**A-01** This analysis does not meet method compliance. See Case Narrative.

**L** Laboratory Control Sample recovery was above the method control limits. Analyte not detected, data not impacted.

**M2** Matrix Spike recovery was outside the method control limits. See Corrective Action Report.

**ND** Analyte NOT DETECTED at or above the reporting limit

**NR** Not reported.

**RPD** Relative Percent Difference

Julie M. Slocum
Project Manager



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# CORRECTIVE ACTION REPORT

Department: Metals
Method: EPA 7430
Date: 10/26/00
Matrix: Solid
Batch(s): P0J2603 & P0J2604
Samples Affected: PJJ0412-01 - PJJ0412-03, PJJ0413-01 - PJJ0413-03 and PJJ0413-06, PJJ0415-01 - PJJ0415-04

Identification and Definition of Problem:

The Laboratory Control Sample and Laboratory Control Sample Duplicate recovered high (120%) and outside of the 85-115% acceptance limits for lithium. The Matrix Spike and Matrix Spike Duplicate also recovered high (120%) and outside of the 85-115% acceptance limits for lithium.

Determination of the Cause of the Problem:

No apparent cause could be determined for the high recovery.

Corrective Action:

The LCS and LCS Duplicate were flagged with and "L" and the MS and MSD with and "M2" to indicate that these quality control samples were outside of method acceptance limits. All associated samples were non-detect for lithium and are therefore not impacted.

Elizabeth C. Wueschner: Nicia Hunter for Date: 10/31/2000
Quality Assurance Officer

Del Mar Analytical

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# ADDITIONAL ANALYSIS REQUEST FORM

Today's Date: 10/25/00 DMA Project Manager: Julie Slocum
Request via: X telephone ____ chain of custody form ____ fax transmission ____ E-mail ____ other
Client: LAW Contact: Jim Clarke
Project: PJG0032 South Mesa
Date Sampled: 7/5/00 Date Received: 7/5/00
Status: ___ in progress X completed ____ received today ____ received yesterday ____ on hold ____ other

| SAMPLE NUMBER | SAMPLE DESCRIPTION | ANALYSIS REQUESTED | SPECIAL REQUIREMENTS |
|---|---|---|---|
| PJG0032-01 | MW-6D | Lithium by FLAA | |
| -02 | MW-AM-BS | Lithium by FLAA | |
| -03 | MW-9S | Lithium by FLAA | |
| ~~~~~ | ~~Trip Blank~~ | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| Use digests Log in as new Job | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

TURNAROUND: ___ SAME DAY X 24 HR. ___ 48 HR. ___ 3 DAY ___ 5 DAY ___ STND X NO RUSH CHARGES

Del Mar Analytical

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# CHAIN OF CUSTODY FORM

Quote #: _____ Page _____ of _____

Client Name/Address:
LAW Engineering
4634 E 36th Place
Phoenix, AZ 85008

Project/PO Number:
70211-0-0150-02-2.2

Project Manager: Jim Clark

Phone Number:
602-437-0250

Sampler: Ron Bednar

Fax Number:
602-457-

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date/Time | Preservatives | Analysis Required: 8260 | Metals | 625 | Special Instructions |
|---|---|---|---|---|---|---|---|---|---|
| MW-6D | Water | clear VOA | 2 | 7/5/00 11:06 | HCL | X | | | PJ50412-01 PJ60032-01 |
| [redacted] " | water | 500ml Poly | 1 | " | HNO3 | | X | | |
| " | Water | 1L Amber | 2 | " | None | | | X | |
| MW-AM-8S | water | Clear VOA | 2 | 7/5/00 13:00 | HCL | X | | | -02 -02 |
| MW-AM-8S | water | 500ml poly | 1 | 7/5/00 14:00 | HNO3 | | X | | |
| MW-AM-8S | water | 1L Amber | 2 | 7/5/00 14:00 | None | | | X | |
| MW-9S | water | Clear VOA | 2 | 7/5/00 15:00 | HCL | X | | | -03 -03 |
| MW-9S | Water | 500ml poly | 1 | 7/5/00 15:00 | HNO3 | | X | | |
| MW-9S | water | 1L Amber | 2 | 7/5/00 15:00 | None | | | X | |
| Trip Blank | | | 1 | | | X | | | -04 |

| | | | |
|---|---|---|---|
| Relinquished By: [signature] | Date /Time: 7/5/00 17:45 | Received by: [signature] | Date /Time: 7/5/00 |
| Relinquished By: [signature] | Date /Time: 7/5/00 | Received by: [signature] | Date /Time: [illegible] |
| Relinquished By: [signature] | Date /Time: [illegible] | Received in Lab by: [signature] | Date /Time: 7/5/00 1745 |

Turnaround Time: (Check)
same day _____ 72 hours _____
24 hours _____ 5 days _____
48 hours _____ normal X

Sample Integrity: (Check)
intact X on ice X

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

COC-GB

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| | | |
|---|---|---|
| Law Engineering<br>4634 S. 36th Place<br>Phoenix, AZ 85040<br>Attention: Jim Clarke | Client Project ID: 70211-0-0150-02-2.2<br>Report Number: PJJ0415 | Sampled: 07/07/00<br>Received: 07/07/00<br>Issued: 10/30/00<br>Revised: 12/12/00 |

# CASE NARRATIVE

| LABORATORY NUMBER | SAMPLE DESCRIPTION | SAMPLE MATRIX |
|---|---|---|
| PJJ0415-01 | MW-LN | Water |
| PJJ0415-02 | MW-4S | Water |
| PJJ0415-03 | MW-3S | Water |
| PJJ0415-04 | MW-7D | Water |

SAMPLE RECEIPT: Samples were received intact, on ice, and with chain of custody documentation. Samples were orginally received on 7/07/00 but were not logged in for Lithium until 10/25/00.

HOLDING TIMES: Holding times were met.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: One or more method QC parameter exceeded acceptance limits. See Corrective Action Report.

OBSERVATIONS: Lithium was analyzed by Method 7430 which calls for Method 3005A as the digestion method. The associated samples were digested by Method 200.2 which is a slightly less rigourous digestion than 3005A, however the data should not be significantly impacted. Although samples do not meet method compliance, they do provide useful information.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

**DEL MAR ANALYTICAL , PHOENIX (AZ0426)**

Julie M. Slocum
Project Manager



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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2

Report Number: PJJ0415

Sampled: 07/07/00
Received: 07/07/00

# TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJJ0415-01 (MW-LN - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2604 | 1.0 | ND | 1 | 7/11/00 | 10/26/00 | A-01,L |
| **Sample ID: PJJ0415-02 (MW-4S - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2604 | 1.0 | ND | 1 | 7/11/00 | 10/26/00 | A-01,L |
| **Sample ID: PJJ0415-03 (MW-3S - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2604 | 1.0 | ND | 1 | 7/11/00 | 10/26/00 | A-01,L |
| **Sample ID: PJJ0415-04 (MW-7D - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2604 | 1.0 | ND | 1 | 7/11/00 | 10/26/00 | A-01,L |

**DEL MAR ANALYTICAL, PHOENIX (AZ0426)**

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-02-2.2
Report Number: PJJ0415

Sampled: 07/07/00
Received: 07/07/00

METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0J2604 Extracted: 07/11/00** | | | | | | | | | | |
| **Blank Analyzed: 10/26/00 (P0J2604-BLK1)** | | | | | | | | | | |
| Lithium | ND | 1.0 | mg/l | | | | | | | |
| **LCS Analyzed: 10/26/00 (P0J2604-BS1)** | | | | | | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | | 120 | 85-115 | | | L |
| **LCS Dup Analyzed: 10/26/00 (P0J2604-BSD1)** | | | | | | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | | 120 | 85-115 | 0 | 20 | L |
| **Matrix Spike Analyzed: 10/26/00 (P0J2604-MS1)** | | | | | **Source: PJJ0413-02** | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | ND | 120 | 85-115 | | | M2 |
| **Matrix Spike Dup Analyzed: 10/26/00 (P0J2604-MSD1)** | | | | | **Source: PJJ0413-02** | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | ND | 120 | 85-115 | 0 | 20 | M2 |

Julie M. Slocum
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| | | |
|---|---|---|
| Law Engineering<br>4634 S. 36th Place<br>Phoenix, AZ 85040<br>Attention: Jim Clarke | Client Project ID: 70211-0-0150-02-2.2<br>Report Number: PJJ0415 | Sampled: 07/07/00<br>Received: 07/07/00 |

METHOD BLANK/QC DATA

# DATA QUALIFIERS AND DEFINITIONS

| | |
|---|---|
| **A-01** | This analysis does not meet method compliance. See Case Narrative. |
| **L** | Laboratory Control Sample recovery was above the method control limits. Analyte not detected, data not impacted. |
| **M2** | Matrix Spike recovery was outside the method control limits. See Corrective Action Report. |
| **ND** | Analyte NOT DETECTED at or above the reporting limit |
| **NR** | Not reported. |
| **RPD** | Relative Percent Difference |

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# CORRECTIVE ACTION REPORT

| | | | |
|---|---|---|---|
| Department: | Metals | Method: | EPA 7430 |
| Date: | 10/26/00 | Matrix: | Solid |
| Batch(s): | P0J2603 & P0J2604 | | |
| Samples Affected: | PJJ0412-01 - PJJ0412-03, PJJ0413-01 - PJJ0413-03 and PJJ0413-06, PJJ0415-01 - PJJ0415-04 | | |

Identification and Definition of Problem:

The Laboratory Control Sample and Laboratory Control Sample Duplicate recovered high (120%) and outside of the 85-115% acceptance limits for lithium. The Matrix Spike and Matrix Spike Duplicate also recovered high (120%) and outside of the 85-115% acceptance limits for lithium.

Determination of the Cause of the Problem:

No apparent cause could be determined for the high recovery.

Corrective Action:

The LCS and LCS Duplicate were flagged with and "L" and the MS and MSD with and "M2" to indicate that these quality control samples were outside of method acceptance limits. All associated samples were non-detect for lithium and are therefore not impacted.

Elizabeth C. Wueschner: Vieira Anatel for Date: 10/31/2000
Quality Assurance Officer

Del Mar Analytical

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# ADDITIONAL ANALYSIS REQUEST FORM

Today's Date: 10/25/00 DMA Project Manager: Julie S.

Request via: X telephone ____ chain of custody form ____ fax transmission ____ E-mail ____ other

Client: LAW Contact: Jim Clarke

Project: PJG0078 South Mesa

Date Sampled: 10/7/00 Date Received: 10/7/00

Status: ___ in progress ____ completed ____ received today ____ received yesterday ____ on hold ____ other

| SAMPLE NUMBER | SAMPLE DESCRIPTION | ANALYSIS REQUESTED | SPECIAL REQUIREMENTS |
|---|---|---|---|
| PJG0078-01 | MW-LW | Lithium by FLAA | |
| -02 | MW-4S | Lithium by FLAA | |
| -03 | MW-3S | Lithium by FLAA | |
| -04 | MW-7D | Lithium by FLAA | |
| | | | |
| | | | |
| | | | |
| | | | |
| | Use Digest | from PJG0078 | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

TURNAROUND: ___ SAME DAY X 24 HR. ___ 48 HR. ___ 3 DAY ___ 5 DAY ___ STND X NO RUSH CHARGES

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# CHAIN OF CUSTODY FORM

Quote #: _____ Page _____ of _____

Client Name/Address: [redacted] / LAW Engineering, 4634 S 36th Place, Phoenix, AZ 85005

Project/PO Number: 70211-0-0150-02-2.2

Project Manager: Jim Clark

Phone Number: 602-437-0250

Sampler: Ron Bednar

Fax Number: 602-437-3675

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date/Time | Preservatives | 8260 | 625 | Metals | | | | | | | | | | Special Instructions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-LW | Water | 2 40ml VOA, 2 1L Amber, 500ml Poly | 5 | 7/7/00 14:30 | VOA - HCL, Amber - none, Poly - Nitric | X | X | X | | | | | | PSJ04150 | | | | PJ60078-01 |
| MW-4S | Water | " | 5 | ~~7/7/00~~ 7/7/00 10:15 | " | X | X | X | | | | | | | | -02 | | 2 |
| MW-3S | Water | " | " | 7/7/00 7:30 | " | X | X | X | | | | | | | | -03 | | 3 |
| MW-7D | Water | " | " | 7/7/00 08:00 | " | X | X | X | | | | | | | | -04 | | 4 |
| TRIP | " | | | | | X | | | | | | | | | | | | 5 |

| | | | |
|---|---|---|---|
| Relinquished By: | Date /Time: 7/7/00 17:15 | Received by: | Date /Time: |
| Relinquished By: | Date /Time: | Received by: | Date /Time: 7/7/00 |
| Relinquished By: | Date /Time: 7/7/00 | Received in Lab by: | Date /Time: 7/7/00 1715 |

Turnaround Time: (Check)
same day _____ 72 hours _____
24 hours _____ 5 days _____
48 hours _____ normal X

Sample Integrity: (Check)
intact X on ice X

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

COC-GB

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| | | |
|---|---|---|
| Law Engineering<br>4634 S. 36th Place<br>Phoenix, AZ 85040<br>Attention: Jim Clarke | Client Project ID: 70211-0-0150-2-2-2<br>Report Number: PJI0296 | Sampled: 09/19/00<br>Received: 09/19/00<br>Issued: 10/09/00 |

# CASE NARRATIVE

| LABORATORY NUMBER | SAMPLE DESCRIPTION | SAMPLE MATRIX |
|---|---|---|
| PJI0296-01 | SRP Well 28E-ON | Water |
| PJI0296-02 | MW-6D | Water |
| PJI0296-03 | MW-1D | Water |
| PJI0296-04 | MW-1S | Water |
| PJI0296-05 | MW-LW | Water |
| PJI0296-06 | MW-AM-8S | Water |
| PJI0296-07 | MW-9S | Water |
| PJI0296-08 | MW-5D | Water |
| PJI0296-09 | MW-5S | Water |

SAMPLE RECEIPT: Samples were received intact, on ice, and with chain of custody documentation.

HOLDING TIMES: Holding times were met.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: One or more method QC parameter exceeded acceptance limits. See Corrective Action Report.

OBSERVATIONS: Because no limits have been established for a full spike list for the MS/MSD or LCS/LCSD within the last year, acceptance limits for compounds without specific acceptance limits in the QAPP have been taken from control charts generated November of 1998.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

**DEL MAR ANALYTICAL , PHOENIX (AZ0426)**

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2

Report Number: PJI0296

Sampled: 09/19/00
Received: 09/19/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJI0296-01 (SRP Well 28E-ON - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P0I2712 | 20 | ND | 1 | 9/27/00 | 9/27/00 | |
| Benzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Bromobenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Bromochloromethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Bromodichloromethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Bromoform | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Bromomethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 2-Butanone (MEK) | EPA 8260B | P0I2712 | 10 | ND | 1 | 9/27/00 | 9/27/00 | |
| n-Butylbenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| sec-Butylbenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| tert-Butylbenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Carbon Disulfide | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | L |
| Carbon tetrachloride | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Chlorobenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Chloroethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Chloroform | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Chloromethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 2-Chlorotoluene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 4-Chlorotoluene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Dibromochloromethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Dibromomethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2-Dichlorobenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,3-Dichlorobenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,4-Dichlorobenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Dichlorodifluoromethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1-Dichloroethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2-Dichloroethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1-Dichloroethene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| cis-1,2-Dichloroethene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| trans-1,2-Dichloroethene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2-Dichloropropane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,3-Dichloropropane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 2,2-Dichloropropane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1-Dichloropropene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| cis-1,3-Dichloropropene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| trans-1,3-Dichloropropene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Ethylbenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Hexachlorobutadiene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 2-Hexanone | EPA 8260B | P0I2712 | 10 | ND | 1 | 9/27/00 | 9/27/00 | |
| Iodomethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Isopropylbenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2

Report Number: PJI0296

Sampled: 09/19/00
Received: 09/19/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJI0296-01 (SRP Well 28E-ON - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Methylene chloride | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 4-Methyl-2-pentatnone (MIBK) | EPA 8260B | P0I2712 | 10 | ND | 1 | 9/27/00 | 9/27/00 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Naphthalene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| n-Propylbenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Styrene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| **Tetrachloroethene** | EPA 8260B | P0I2712 | 2.0 | **7.0** | 1 | 9/27/00 | 9/27/00 | |
| Toluene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1,1-Trichloroethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1,2-Trichloroethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Trichloroethene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Trichlorofluoromethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2,3-Trichloropropane | EPA 8260B | P0I2712 | 10 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Vinyl acetate | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Vinyl chloride | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Xylenes, Total | EPA 8260B | P0I2712 | 10 | ND | 1 | 9/27/00 | 9/27/00 | |
| *Surrogate: Dibromofluoromethane (70-160%)* | | | | *90.0 %* | | | | |
| *Surrogate: Toluene-d8 (75-140%)* | | | | *90.8 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (75-135%)* | | | | *96.0 %* | | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2

Report Number: PJI0296

Sampled: 09/19/00
Received: 09/19/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJI0296-02 (MW-6D - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P0I2712 | 20 | ND | 1 | 9/27/00 | 9/27/00 | |
| Benzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Bromobenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Bromochloromethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Bromodichloromethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Bromoform | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Bromomethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 2-Butanone (MEK) | EPA 8260B | P0I2712 | 10 | ND | 1 | 9/27/00 | 9/27/00 | |
| n-Butylbenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| sec-Butylbenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| tert-Butylbenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Carbon Disulfide | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | L |
| Carbon tetrachloride | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Chlorobenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Chloroethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Chloroform | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Chloromethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 2-Chlorotoluene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 4-Chlorotoluene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Dibromochloromethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Dibromomethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2-Dichlorobenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,3-Dichlorobenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,4-Dichlorobenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Dichlorodifluoromethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1-Dichloroethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2-Dichloroethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1-Dichloroethene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| cis-1,2-Dichloroethene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| trans-1,2-Dichloroethene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2-Dichloropropane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,3-Dichloropropane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 2,2-Dichloropropane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1-Dichloropropene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| cis-1,3-Dichloropropene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| trans-1,3-Dichloropropene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Ethylbenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Hexachlorobutadiene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 2-Hexanone | EPA 8260B | P0I2712 | 10 | ND | 1 | 9/27/00 | 9/27/00 | |
| Iodomethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Isopropylbenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2

Report Number: PJI0296

Sampled: 09/19/00
Received: 09/19/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJI0296-02 (MW-6D - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Methylene chloride | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 4-Methyl-2-pentatnone (MIBK) | EPA 8260B | P0I2712 | 10 | ND | 1 | 9/27/00 | 9/27/00 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Naphthalene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| n-Propylbenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Styrene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Tetrachloroethene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Toluene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1,1-Trichloroethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1,2-Trichloroethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Trichloroethene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Trichlorofluoromethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2,3-Trichloropropane | EPA 8260B | P0I2712 | 10 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Vinyl acetate | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Vinyl chloride | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Xylenes, Total | EPA 8260B | P0I2712 | 10 | ND | 1 | 9/27/00 | 9/27/00 | |
| *Surrogate: Dibromofluoromethane (70-160%)* | | | | *92.4 %* | | | | |
| *Surrogate: Toluene-d8 (75-140%)* | | | | *90.4 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (75-135%)* | | | | *96.8 %* | | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2
Report Number: PJI0296

Sampled: 09/19/00
Received: 09/19/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJI0296-03 (MW-1D - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P0I2712 | 20 | ND | 1 | 9/27/00 | 9/27/00 | |
| Benzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Bromobenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Bromochloromethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Bromodichloromethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Bromoform | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Bromomethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 2-Butanone (MEK) | EPA 8260B | P0I2712 | 10 | ND | 1 | 9/27/00 | 9/27/00 | |
| n-Butylbenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| sec-Butylbenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| tert-Butylbenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Carbon Disulfide | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | L |
| Carbon tetrachloride | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Chlorobenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Chloroethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Chloroform | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Chloromethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 2-Chlorotoluene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 4-Chlorotoluene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Dibromochloromethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Dibromomethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2-Dichlorobenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,3-Dichlorobenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,4-Dichlorobenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Dichlorodifluoromethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1-Dichloroethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2-Dichloroethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1-Dichloroethene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| cis-1,2-Dichloroethene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| trans-1,2-Dichloroethene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2-Dichloropropane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,3-Dichloropropane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 2,2-Dichloropropane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1-Dichloropropene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| cis-1,3-Dichloropropene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| trans-1,3-Dichloropropene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Ethylbenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Hexachlorobutadiene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 2-Hexanone | EPA 8260B | P0I2712 | 10 | ND | 1 | 9/27/00 | 9/27/00 | |
| Iodomethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Isopropylbenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2

Report Number: PJI0296

Sampled: 09/19/00
Received: 09/19/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJI0296-03 (MW-1D - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Methylene chloride | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 4-Methyl-2-pentatnone (MIBK) | EPA 8260B | P0I2712 | 10 | ND | 1 | 9/27/00 | 9/27/00 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Naphthalene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| n-Propylbenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Styrene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Tetrachloroethene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Toluene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1,1-Trichloroethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1,2-Trichloroethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Trichloroethene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Trichlorofluoromethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2,3-Trichloropropane | EPA 8260B | P0I2712 | 10 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Vinyl acetate | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Vinyl chloride | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Xylenes, Total | EPA 8260B | P0I2712 | 10 | ND | 1 | 9/27/00 | 9/27/00 | |
| *Surrogate: Dibromofluoromethane (70-160%)* | | | | *92.8 %* | | | | |
| *Surrogate: Toluene-d8 (75-140%)* | | | | *90.0 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (75-135%)* | | | | *94.4 %* | | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2

Report Number: PJI0296

Sampled: 09/19/00
Received: 09/19/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJI0296-04 (MW-1S - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P0I2712 | 20 | ND | 1 | 9/27/00 | 9/27/00 | |
| Benzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Bromobenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Bromochloromethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Bromodichloromethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Bromoform | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Bromomethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 2-Butanone (MEK) | EPA 8260B | P0I2712 | 10 | ND | 1 | 9/27/00 | 9/27/00 | |
| n-Butylbenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| sec-Butylbenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| tert-Butylbenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Carbon Disulfide | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | L |
| Carbon tetrachloride | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Chlorobenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Chloroethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Chloroform | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Chloromethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 2-Chlorotoluene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 4-Chlorotoluene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Dibromochloromethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Dibromomethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2-Dichlorobenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,3-Dichlorobenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,4-Dichlorobenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Dichlorodifluoromethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1-Dichloroethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2-Dichloroethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1-Dichloroethene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| cis-1,2-Dichloroethene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| trans-1,2-Dichloroethene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2-Dichloropropane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,3-Dichloropropane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 2,2-Dichloropropane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1-Dichloropropene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| cis-1,3-Dichloropropene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| trans-1,3-Dichloropropene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Ethylbenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Hexachlorobutadiene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 2-Hexanone | EPA 8260B | P0I2712 | 10 | ND | 1 | 9/27/00 | 9/27/00 | |
| Iodomethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Isopropylbenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2

Report Number: PJI0296

Sampled: 09/19/00
Received: 09/19/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJI0296-04 (MW-1S - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Methylene chloride | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 4-Methyl-2-pentatnone (MIBK) | EPA 8260B | P0I2712 | 10 | ND | 1 | 9/27/00 | 9/27/00 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Naphthalene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| n-Propylbenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Styrene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Tetrachloroethene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Toluene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1,1-Trichloroethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1,2-Trichloroethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Trichloroethene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Trichlorofluoromethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2,3-Trichloropropane | EPA 8260B | P0I2712 | 10 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Vinyl acetate | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Vinyl chloride | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Xylenes, Total | EPA 8260B | P0I2712 | 10 | ND | 1 | 9/27/00 | 9/27/00 | |
| *Surrogate: Dibromofluoromethane (70-160%)* | | | | *96.4 %* | | | | |
| *Surrogate: Toluene-d8 (75-140%)* | | | | *89.6 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (75-135%)* | | | | *96.0 %* | | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2

Report Number: PJI0296

Sampled: 09/19/00
Received: 09/19/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJI0296-05 (MW-LW - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P0I2712 | 20 | ND | 1 | 9/27/00 | 9/27/00 | |
| Benzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Bromobenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Bromochloromethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Bromodichloromethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Bromoform | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Bromomethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 2-Butanone (MEK) | EPA 8260B | P0I2712 | 10 | ND | 1 | 9/27/00 | 9/27/00 | |
| n-Butylbenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| sec-Butylbenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| tert-Butylbenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Carbon Disulfide | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | L |
| Carbon tetrachloride | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Chlorobenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Chloroethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Chloroform | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Chloromethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 2-Chlorotoluene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 4-Chlorotoluene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Dibromochloromethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Dibromomethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2-Dichlorobenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,3-Dichlorobenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,4-Dichlorobenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Dichlorodifluoromethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1-Dichloroethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2-Dichloroethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1-Dichloroethene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| cis-1,2-Dichloroethene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| trans-1,2-Dichloroethene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2-Dichloropropane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,3-Dichloropropane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 2,2-Dichloropropane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1-Dichloropropene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| cis-1,3-Dichloropropene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| trans-1,3-Dichloropropene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Ethylbenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Hexachlorobutadiene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 2-Hexanone | EPA 8260B | P0I2712 | 10 | ND | 1 | 9/27/00 | 9/27/00 | |
| Iodomethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Isopropylbenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2

Report Number: PJI0296

Sampled: 09/19/00
Received: 09/19/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJI0296-05 (MW-LW - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Methylene chloride | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 4-Methyl-2-pentatnone (MIBK) | EPA 8260B | P0I2712 | 10 | ND | 1 | 9/27/00 | 9/27/00 | |
| **Methyl-tert-butyl Ether (MTBE)** | EPA 8260B | P0I2712 | 5.0 | **9.4** | 1 | 9/27/00 | 9/27/00 | |
| Naphthalene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| n-Propylbenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Styrene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Tetrachloroethene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Toluene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1,1-Trichloroethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1,2-Trichloroethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Trichloroethene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Trichlorofluoromethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2,3-Trichloropropane | EPA 8260B | P0I2712 | 10 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Vinyl acetate | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Vinyl chloride | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Xylenes, Total | EPA 8260B | P0I2712 | 10 | ND | 1 | 9/27/00 | 9/27/00 | |
| *Surrogate: Dibromofluoromethane (70-160%)* | | | | *94.8 %* | | | | |
| *Surrogate: Toluene-d8 (75-140%)* | | | | *90.0 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (75-135%)* | | | | *96.0 %* | | | | |

Julie M. Slocum
Project Manager



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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2

Report Number: PJI0296

Sampled: 09/19/00
Received: 09/19/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJI0296-06 (MW-AM-8S - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P0I2712 | 20 | ND | 1 | 9/27/00 | 9/27/00 | |
| Benzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Bromobenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Bromochloromethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Bromodichloromethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Bromoform | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Bromomethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 2-Butanone (MEK) | EPA 8260B | P0I2712 | 10 | ND | 1 | 9/27/00 | 9/27/00 | |
| n-Butylbenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| sec-Butylbenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| tert-Butylbenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Carbon Disulfide | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | L |
| Carbon tetrachloride | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Chlorobenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Chloroethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Chloroform | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Chloromethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 2-Chlorotoluene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 4-Chlorotoluene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Dibromochloromethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Dibromomethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2-Dichlorobenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,3-Dichlorobenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,4-Dichlorobenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Dichlorodifluoromethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1-Dichloroethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2-Dichloroethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1-Dichloroethene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| **cis-1,2-Dichloroethene** | EPA 8260B | P0I2712 | 2.0 | **3.3** | 1 | 9/27/00 | 9/27/00 | |
| trans-1,2-Dichloroethene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2-Dichloropropane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,3-Dichloropropane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 2,2-Dichloropropane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1-Dichloropropene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| cis-1,3-Dichloropropene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| trans-1,3-Dichloropropene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Ethylbenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Hexachlorobutadiene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 2-Hexanone | EPA 8260B | P0I2712 | 10 | ND | 1 | 9/27/00 | 9/27/00 | |
| Iodomethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Isopropylbenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2

Report Number: PJI0296

Sampled: 09/19/00
Received: 09/19/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJI0296-06 (MW-AM-8S - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Methylene chloride | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 4-Methyl-2-pentatnone (MIBK) | EPA 8260B | P0I2712 | 10 | ND | 1 | 9/27/00 | 9/27/00 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Naphthalene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| n-Propylbenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Styrene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| **Tetrachloroethene** | EPA 8260B | P0I2712 | 2.0 | **24** | 1 | 9/27/00 | 9/27/00 | |
| Toluene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1,1-Trichloroethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1,2-Trichloroethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Trichloroethene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Trichlorofluoromethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2,3-Trichloropropane | EPA 8260B | P0I2712 | 10 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Vinyl acetate | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Vinyl chloride | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Xylenes, Total | EPA 8260B | P0I2712 | 10 | ND | 1 | 9/27/00 | 9/27/00 | |
| *Surrogate: Dibromofluoromethane (70-160%)* | | | | *95.6 %* | | | | |
| *Surrogate: Toluene-d8 (75-140%)* | | | | *89.6 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (75-135%)* | | | | *98.0 %* | | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2

Report Number: PJI0296

Sampled: 09/19/00
Received: 09/19/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJI0296-07 (MW-9S - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P0I2712 | 20 | ND | 1 | 9/27/00 | 9/27/00 | |
| Benzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Bromobenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Bromochloromethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Bromodichloromethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Bromoform | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Bromomethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 2-Butanone (MEK) | EPA 8260B | P0I2712 | 10 | ND | 1 | 9/27/00 | 9/27/00 | |
| n-Butylbenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| sec-Butylbenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| tert-Butylbenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Carbon Disulfide | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | L |
| Carbon tetrachloride | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Chlorobenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Chloroethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Chloroform | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Chloromethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 2-Chlorotoluene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 4-Chlorotoluene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Dibromochloromethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Dibromomethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2-Dichlorobenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,3-Dichlorobenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,4-Dichlorobenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Dichlorodifluoromethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1-Dichloroethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2-Dichloroethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1-Dichloroethene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| **cis-1,2-Dichloroethene** | EPA 8260B | P0I2712 | 2.0 | **3.7** | 1 | 9/27/00 | 9/27/00 | |
| trans-1,2-Dichloroethene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2-Dichloropropane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,3-Dichloropropane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 2,2-Dichloropropane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1-Dichloropropene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| cis-1,3-Dichloropropene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| trans-1,3-Dichloropropene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Ethylbenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Hexachlorobutadiene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 2-Hexanone | EPA 8260B | P0I2712 | 10 | ND | 1 | 9/27/00 | 9/27/00 | |
| Iodomethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Isopropylbenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2

Report Number: PJI0296

Sampled: 09/19/00
Received: 09/19/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJI0296-07 (MW-9S - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Methylene chloride | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 4-Methyl-2-pentatnone (MIBK) | EPA 8260B | P0I2712 | 10 | ND | 1 | 9/27/00 | 9/27/00 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Naphthalene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| n-Propylbenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Styrene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| **Tetrachloroethene** | EPA 8260B | P0I2712 | 2.0 | **24** | 1 | 9/27/00 | 9/27/00 | |
| Toluene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1,1-Trichloroethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1,2-Trichloroethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Trichloroethene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Trichlorofluoromethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2,3-Trichloropropane | EPA 8260B | P0I2712 | 10 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Vinyl acetate | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Vinyl chloride | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Xylenes, Total | EPA 8260B | P0I2712 | 10 | ND | 1 | 9/27/00 | 9/27/00 | |
| *Surrogate: Dibromofluoromethane (70-160%)* | | | | *93.2 %* | | | | |
| *Surrogate: Toluene-d8 (75-140%)* | | | | *89.2 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (75-135%)* | | | | *96.0 %* | | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2

Report Number: PJI0296

Sampled: 09/19/00
Received: 09/19/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJI0296-08 (MW-5D - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P0I2712 | 20 | ND | 1 | 9/27/00 | 9/27/00 | |
| Benzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Bromobenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Bromochloromethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Bromodichloromethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Bromoform | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Bromomethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 2-Butanone (MEK) | EPA 8260B | P0I2712 | 10 | ND | 1 | 9/27/00 | 9/27/00 | |
| n-Butylbenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| sec-Butylbenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| tert-Butylbenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Carbon Disulfide | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | L |
| Carbon tetrachloride | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Chlorobenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Chloroethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Chloroform | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Chloromethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 2-Chlorotoluene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 4-Chlorotoluene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Dibromochloromethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Dibromomethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2-Dichlorobenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,3-Dichlorobenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,4-Dichlorobenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Dichlorodifluoromethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1-Dichloroethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2-Dichloroethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1-Dichloroethene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| cis-1,2-Dichloroethene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| trans-1,2-Dichloroethene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2-Dichloropropane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,3-Dichloropropane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 2,2-Dichloropropane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1-Dichloropropene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| cis-1,3-Dichloropropene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| trans-1,3-Dichloropropene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Ethylbenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Hexachlorobutadiene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 2-Hexanone | EPA 8260B | P0I2712 | 10 | ND | 1 | 9/27/00 | 9/27/00 | |
| Iodomethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Isopropylbenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2

Report Number: PJI0296

Sampled: 09/19/00
Received: 09/19/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJI0296-08 (MW-5D - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Methylene chloride | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 4-Methyl-2-pentatnone (MIBK) | EPA 8260B | P0I2712 | 10 | ND | 1 | 9/27/00 | 9/27/00 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Naphthalene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| n-Propylbenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Styrene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| **Tetrachloroethene** | EPA 8260B | P0I2712 | 2.0 | **6.6** | 1 | 9/27/00 | 9/27/00 | |
| Toluene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1,1-Trichloroethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1,2-Trichloroethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Trichloroethene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Trichlorofluoromethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2,3-Trichloropropane | EPA 8260B | P0I2712 | 10 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Vinyl acetate | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Vinyl chloride | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Xylenes, Total | EPA 8260B | P0I2712 | 10 | ND | 1 | 9/27/00 | 9/27/00 | |
| *Surrogate: Dibromofluoromethane (70-160%)* | | | | *94.4 %* | | | | |
| *Surrogate: Toluene-d8 (75-140%)* | | | | *91.6 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (75-135%)* | | | | *94.8 %* | | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2

Report Number: PJI0296

Sampled: 09/19/00
Received: 09/19/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJI0296-09 (MW-5S - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P0I2712 | 20 | ND | 1 | 9/27/00 | 9/27/00 | |
| Benzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Bromobenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Bromochloromethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Bromodichloromethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Bromoform | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Bromomethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 2-Butanone (MEK) | EPA 8260B | P0I2712 | 10 | ND | 1 | 9/27/00 | 9/27/00 | |
| n-Butylbenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| sec-Butylbenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| tert-Butylbenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Carbon Disulfide | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | L |
| Carbon tetrachloride | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Chlorobenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Chloroethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Chloroform | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Chloromethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 2-Chlorotoluene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 4-Chlorotoluene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Dibromochloromethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Dibromomethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2-Dichlorobenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,3-Dichlorobenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,4-Dichlorobenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Dichlorodifluoromethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1-Dichloroethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2-Dichloroethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1-Dichloroethene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| cis-1,2-Dichloroethene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| trans-1,2-Dichloroethene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2-Dichloropropane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,3-Dichloropropane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 2,2-Dichloropropane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1-Dichloropropene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| cis-1,3-Dichloropropene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| trans-1,3-Dichloropropene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Ethylbenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Hexachlorobutadiene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 2-Hexanone | EPA 8260B | P0I2712 | 10 | ND | 1 | 9/27/00 | 9/27/00 | |
| Iodomethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Isopropylbenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2

Report Number: PJI0296

Sampled: 09/19/00
Received: 09/19/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJI0296-09 (MW-5S - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Methylene chloride | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 4-Methyl-2-pentatnone (MIBK) | EPA 8260B | P0I2712 | 10 | ND | 1 | 9/27/00 | 9/27/00 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Naphthalene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| n-Propylbenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Styrene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Tetrachloroethene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Toluene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1,1-Trichloroethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,1,2-Trichloroethane | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Trichloroethene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Trichlorofluoromethane | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2,3-Trichloropropane | EPA 8260B | P0I2712 | 10 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P0I2712 | 2.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Vinyl acetate | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Vinyl chloride | EPA 8260B | P0I2712 | 5.0 | ND | 1 | 9/27/00 | 9/27/00 | |
| Xylenes, Total | EPA 8260B | P0I2712 | 10 | ND | 1 | 9/27/00 | 9/27/00 | |
| *Surrogate: Dibromofluoromethane (70-160%)* | | | | *93.2 %* | | | | |
| *Surrogate: Toluene-d8 (75-140%)* | | | | *88.0 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (75-135%)* | | | | *94.8 %* | | | | |

**DEL MAR ANALYTICAL, PHOENIX (AZ0426)**

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2

Report Number: PJI0296

Sampled: 09/19/00
Received: 09/19/00

# TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJI0296-01 (SRP Well 28E-ON - Water)** | | | | | | | | |
| Aluminum | EPA 200.7 | P0I2028 | 0.50 | ND | 1 | 9/20/00 | 9/21/00 | |
| Antimony | EPA 200.9 | P0I2027 | NA | ND | 0 | 9/20/00 | 9/27/00 | C |
| **Arsenic** | EPA 200.9 | P0I2027 | 0.0030 | **0.0064** | 1 | 9/20/00 | 9/26/00 | |
| **Barium** | EPA 200.7 | P0I2028 | 0.010 | **0.096** | 1 | 9/20/00 | 9/21/00 | |
| Beryllium | EPA 200.9 | P0I2027 | 0.00050 | ND | 1 | 9/20/00 | 9/28/00 | C |
| Cadmium | EPA 200.9 | P0I2027 | 0.00050 | ND | 1 | 9/20/00 | 9/28/00 | |
| **Calcium** | EPA 200.7 | P0I2028 | 2.0 | **120** | 1 | 9/20/00 | 9/21/00 | |
| Chromium | EPA 200.9 | P0I2027 | 0.0040 | ND | 1 | 9/20/00 | 9/28/00 | C |
| Cobalt | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| Copper | EPA 200.7 | P0I2028 | 0.020 | ND | 1 | 9/20/00 | 9/21/00 | |
| **Iron** | EPA 200.7 | P0I2028 | 0.10 | **1.4** | 1 | 9/20/00 | 9/21/00 | |
| Lead | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| **Magnesium** | EPA 200.7 | P0I2028 | 0.50 | **44** | 1 | 9/20/00 | 9/21/00 | |
| Manganese | EPA 200.7 | P0I2028 | 0.020 | ND | 1 | 9/20/00 | 9/25/00 | |
| Nickel | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| Selenium | EPA 200.9 | P0I2027 | 0.0040 | ND | 1 | 9/20/00 | 10/2/00 | |
| Silver | EPA 200.7 | P0I2028 | 0.0050 | ND | 1 | 9/20/00 | 9/21/00 | |
| **Sodium** | EPA 273.1 | P0I2028 | 25 | **460** | 5 | 9/20/00 | 9/22/00 | |
| **Strontium** | EPA 200.7 | P0I2028 | 1.0 | **1.1** | 10 | 9/20/00 | 9/28/00 | M |
| Vanadium | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| Zinc | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| **Sample ID: PJI0296-02 (MW-6D - Water)** | | | | | | | | |
| Aluminum | EPA 200.7 | P0I2028 | 0.50 | ND | 1 | 9/20/00 | 9/21/00 | |
| Antimony | EPA 200.9 | P0I2027 | 0.0040 | ND | 1 | 9/20/00 | 9/27/00 | C |
| Arsenic | EPA 200.9 | P0I2027 | 0.0030 | ND | 1 | 9/20/00 | 9/26/00 | |
| **Barium** | EPA 200.7 | P0I2028 | 0.010 | **0.096** | 1 | 9/20/00 | 9/21/00 | |
| Beryllium | EPA 200.9 | P0I2027 | 0.00050 | ND | 1 | 9/20/00 | 9/28/00 | C |
| Cadmium | EPA 200.9 | P0I2027 | 0.00050 | ND | 1 | 9/20/00 | 9/28/00 | |
| **Calcium** | EPA 200.7 | P0I2028 | 2.0 | **230** | 1 | 9/20/00 | 9/21/00 | |
| **Chromium** | EPA 200.9 | P0I2027 | 0.0040 | **0.021** | 1 | 9/20/00 | 10/3/00 | |
| Cobalt | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| Copper | EPA 200.7 | P0I2028 | 0.020 | ND | 1 | 9/20/00 | 9/21/00 | |
| **Iron** | EPA 200.7 | P0I2028 | 0.10 | **0.25** | 1 | 9/20/00 | 9/21/00 | |
| Lead | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| **Magnesium** | EPA 200.7 | P0I2028 | 0.50 | **82** | 1 | 9/20/00 | 9/21/00 | |
| Manganese | EPA 200.7 | P0I2028 | 0.020 | ND | 1 | 9/20/00 | 9/21/00 | |
| Nickel | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| Selenium | EPA 200.9 | P0I2027 | 0.0040 | ND | 1 | 9/20/00 | 10/2/00 | |
| Silver | EPA 200.7 | P0I2028 | 0.0050 | ND | 1 | 9/20/00 | 9/21/00 | |
| **Sodium** | EPA 273.1 | P0I2028 | 25 | **440** | 5 | 9/20/00 | 9/22/00 | |
| **Strontium** | EPA 200.7 | P0I2028 | 1.0 | **2.1** | 10 | 9/20/00 | 9/28/00 | |
| Vanadium | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| Zinc | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2

Report Number: PJI0296

Sampled: 09/19/00
Received: 09/19/00

## TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJI0296-03 (MW-1D - Water)** | | | | | | | | |
| Aluminum | EPA 200.7 | P0I2028 | 0.50 | ND | 1 | 9/20/00 | 9/21/00 | |
| Antimony | EPA 200.9 | P0I2027 | 0.0040 | ND | 1 | 9/20/00 | 9/27/00 | C |
| **Arsenic** | EPA 200.9 | P0I2027 | 0.0030 | **0.0035** | 1 | 9/20/00 | 9/26/00 | |
| **Barium** | EPA 200.7 | P0I2028 | 0.010 | **0.091** | 1 | 9/20/00 | 9/21/00 | |
| Beryllium | EPA 200.9 | P0I2027 | 0.00050 | ND | 1 | 9/20/00 | 9/28/00 | C |
| Cadmium | EPA 200.9 | P0I2027 | 0.00050 | ND | 1 | 9/20/00 | 9/28/00 | |
| **Calcium** | EPA 200.7 | P0I2028 | 2.0 | **190** | 1 | 9/20/00 | 9/21/00 | |
| **Chromium** | EPA 200.9 | P0I2027 | 0.016 | **0.063** | 4 | 9/20/00 | 10/3/00 | |
| Cobalt | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| Copper | EPA 200.7 | P0I2028 | 0.020 | ND | 1 | 9/20/00 | 9/21/00 | |
| **Iron** | EPA 200.7 | P0I2028 | 0.10 | **0.91** | 1 | 9/20/00 | 9/21/00 | |
| Lead | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| **Magnesium** | EPA 200.7 | P0I2028 | 0.50 | **66** | 1 | 9/20/00 | 9/21/00 | |
| Manganese | EPA 200.7 | P0I2028 | 0.020 | ND | 1 | 9/20/00 | 9/21/00 | |
| Nickel | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| Selenium | EPA 200.9 | P0I2027 | 0.0040 | ND | 1 | 9/20/00 | 10/2/00 | |
| Silver | EPA 200.7 | P0I2028 | 0.0050 | ND | 1 | 9/20/00 | 9/21/00 | |
| **Sodium** | EPA 273.1 | P0I2028 | 25 | **390** | 5 | 9/20/00 | 9/22/00 | |
| **Strontium** | EPA 200.7 | P0I2028 | 1.0 | **1.6** | 10 | 9/20/00 | 9/28/00 | |
| Vanadium | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| Zinc | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| **Sample ID: PJI0296-04 (MW-1S - Water)** | | | | | | | | |
| Aluminum | EPA 200.7 | P0I2028 | 0.50 | ND | 1 | 9/20/00 | 9/21/00 | |
| Antimony | EPA 200.9 | P0I2027 | 0.0040 | ND | 1 | 9/20/00 | 9/28/00 | |
| **Arsenic** | EPA 200.9 | P0I2027 | 0.0030 | **0.0037** | 1 | 9/20/00 | 9/26/00 | |
| **Barium** | EPA 200.7 | P0I2028 | 0.010 | **0.075** | 1 | 9/20/00 | 9/21/00 | |
| Beryllium | EPA 200.9 | P0I2027 | 0.00050 | ND | 1 | 9/20/00 | 9/28/00 | C |
| Cadmium | EPA 200.9 | P0I2027 | 0.00050 | ND | 1 | 9/20/00 | 9/28/00 | |
| **Calcium** | EPA 200.7 | P0I2028 | 2.0 | **130** | 1 | 9/20/00 | 9/21/00 | |
| **Chromium** | EPA 200.9 | P0I2027 | 0.0040 | **0.024** | 1 | 9/20/00 | 10/3/00 | |
| Cobalt | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| Copper | EPA 200.7 | P0I2028 | 0.020 | ND | 1 | 9/20/00 | 9/21/00 | |
| **Iron** | EPA 200.7 | P0I2028 | 0.10 | **0.13** | 1 | 9/20/00 | 9/21/00 | |
| Lead | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| **Magnesium** | EPA 200.7 | P0I2028 | 0.50 | **43** | 1 | 9/20/00 | 9/21/00 | |
| Manganese | EPA 200.7 | P0I2028 | 0.020 | ND | 1 | 9/20/00 | 9/21/00 | |
| Nickel | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| Selenium | EPA 200.9 | P0I2027 | 0.0040 | ND | 1 | 9/20/00 | 10/2/00 | |
| Silver | EPA 200.7 | P0I2028 | 0.0050 | ND | 1 | 9/20/00 | 9/21/00 | |
| **Sodium** | EPA 273.1 | P0I2028 | 25 | **430** | 5 | 9/20/00 | 9/22/00 | |
| **Strontium** | EPA 200.7 | P0I2028 | 1.0 | **1.1** | 10 | 9/20/00 | 9/28/00 | |
| Vanadium | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| Zinc | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2

Report Number: PJI0296

Sampled: 09/19/00
Received: 09/19/00

## TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJI0296-05 (MW-LW - Water)** | | | | | | | | |
| Aluminum | EPA 200.7 | P0I2028 | 0.50 | ND | 1 | 9/20/00 | 9/21/00 | |
| Antimony | EPA 200.9 | P0I2027 | 0.0040 | ND | 1 | 9/20/00 | 9/28/00 | |
| **Arsenic** | EPA 200.9 | P0I2027 | 0.0030 | **0.0041** | 1 | 9/20/00 | 9/26/00 | |
| **Barium** | EPA 200.7 | P0I2028 | 0.010 | **0.051** | 1 | 9/20/00 | 9/21/00 | |
| Beryllium | EPA 200.9 | P0I2027 | 0.00050 | ND | 1 | 9/20/00 | 9/28/00 | C |
| Cadmium | EPA 200.9 | P0I2027 | 0.00050 | ND | 1 | 9/20/00 | 9/28/00 | |
| **Calcium** | EPA 200.7 | P0I2028 | 2.0 | **120** | 1 | 9/20/00 | 9/21/00 | |
| **Chromium** | EPA 200.9 | P0I2027 | 0.040 | **0.12** | 10 | 9/20/00 | 10/3/00 | |
| Cobalt | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| Copper | EPA 200.7 | P0I2028 | 0.020 | ND | 1 | 9/20/00 | 9/21/00 | |
| **Iron** | EPA 200.7 | P0I2028 | 0.10 | **1.1** | 1 | 9/20/00 | 9/21/00 | |
| Lead | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| **Magnesium** | EPA 200.7 | P0I2028 | 0.50 | **49** | 1 | 9/20/00 | 9/21/00 | |
| Manganese | EPA 200.7 | P0I2028 | 0.020 | ND | 1 | 9/20/00 | 9/21/00 | |
| Nickel | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| Selenium | EPA 200.9 | P0I2027 | 0.0040 | ND | 1 | 9/20/00 | 10/2/00 | |
| Silver | EPA 200.7 | P0I2028 | 0.0050 | ND | 1 | 9/20/00 | 9/21/00 | |
| **Sodium** | EPA 273.1 | P0I2028 | 25 | **570** | 5 | 9/20/00 | 9/22/00 | |
| **Strontium** | EPA 200.7 | P0I2028 | 0.50 | **1.2** | 5 | 9/20/00 | 10/2/00 | |
| Vanadium | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| Zinc | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| **Sample ID: PJI0296-06 (MW-AM-8S - Water)** | | | | | | | | |
| Aluminum | EPA 200.7 | P0I2028 | 0.50 | ND | 1 | 9/20/00 | 9/21/00 | |
| Antimony | EPA 200.9 | P0I2027 | 0.0040 | ND | 1 | 9/20/00 | 9/28/00 | |
| **Arsenic** | EPA 200.9 | P0I2027 | 0.0030 | **0.023** | 1 | 9/20/00 | 9/26/00 | |
| **Barium** | EPA 200.7 | P0I2028 | 0.010 | **0.074** | 1 | 9/20/00 | 9/21/00 | |
| Beryllium | EPA 200.9 | P0I2027 | 0.00050 | ND | 1 | 9/20/00 | 9/28/00 | C |
| Cadmium | EPA 200.9 | P0I2027 | 0.00050 | ND | 1 | 9/20/00 | 9/28/00 | |
| **Calcium** | EPA 200.7 | P0I2028 | 2.0 | **150** | 1 | 9/20/00 | 9/21/00 | |
| **Chromium** | EPA 200.9 | P0I2027 | 0.040 | **0.28** | 10 | 9/20/00 | 10/3/00 | |
| Cobalt | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| Copper | EPA 200.7 | P0I2028 | 0.020 | ND | 1 | 9/20/00 | 9/21/00 | |
| **Iron** | EPA 200.7 | P0I2028 | 0.10 | **4.9** | 1 | 9/20/00 | 9/21/00 | |
| Lead | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| **Magnesium** | EPA 200.7 | P0I2028 | 0.50 | **56** | 1 | 9/20/00 | 9/21/00 | |
| **Manganese** | EPA 200.7 | P0I2028 | 0.020 | **0.12** | 1 | 9/20/00 | 9/21/00 | |
| Nickel | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| Selenium | EPA 200.9 | P0I2027 | 0.0040 | ND | 1 | 9/20/00 | 10/2/00 | |
| Silver | EPA 200.7 | P0I2028 | 0.0050 | ND | 1 | 9/20/00 | 9/21/00 | |
| **Sodium** | EPA 273.1 | P0I2028 | 25 | **540** | 5 | 9/20/00 | 9/22/00 | |
| **Strontium** | EPA 200.7 | P0I2028 | 1.0 | **1.3** | 10 | 9/20/00 | 9/28/00 | |
| Vanadium | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| Zinc | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2

Report Number: PJI0296

Sampled: 09/19/00
Received: 09/19/00

## TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJI0296-07 (MW-9S - Water)** | | | | | | | | |
| Aluminum | EPA 200.7 | P0I2028 | 0.50 | ND | 1 | 9/20/00 | 9/21/00 | |
| Antimony | EPA 200.9 | P0I2027 | 0.0040 | ND | 1 | 9/20/00 | 9/28/00 | |
| **Arsenic** | EPA 200.9 | P0I2027 | 0.0030 | **0.022** | 1 | 9/20/00 | 9/26/00 | |
| **Barium** | EPA 200.7 | P0I2028 | 0.010 | **0.070** | 1 | 9/20/00 | 9/21/00 | |
| Beryllium | EPA 200.9 | P0I2027 | 0.00050 | ND | 1 | 9/20/00 | 9/28/00 | C |
| Cadmium | EPA 200.9 | P0I2027 | 0.00050 | ND | 1 | 9/20/00 | 9/28/00 | |
| **Calcium** | EPA 200.7 | P0I2028 | 2.0 | **150** | 1 | 9/20/00 | 9/21/00 | |
| **Chromium** | EPA 200.9 | P0I2027 | 0.040 | **0.31** | 10 | 9/20/00 | 10/3/00 | |
| Cobalt | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| Copper | EPA 200.7 | P0I2028 | 0.020 | ND | 1 | 9/20/00 | 9/21/00 | |
| **Iron** | EPA 200.7 | P0I2028 | 0.10 | **4.6** | 1 | 9/20/00 | 9/21/00 | |
| Lead | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| **Magnesium** | EPA 200.7 | P0I2028 | 0.50 | **54** | 1 | 9/20/00 | 9/21/00 | |
| **Manganese** | EPA 200.7 | P0I2028 | 0.020 | **0.13** | 1 | 9/20/00 | 9/21/00 | |
| Nickel | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| Selenium | EPA 200.9 | P0I2027 | 0.0040 | ND | 1 | 9/20/00 | 10/2/00 | |
| Silver | EPA 200.7 | P0I2028 | 0.0050 | ND | 1 | 9/20/00 | 9/21/00 | |
| **Sodium** | EPA 273.1 | P0I2028 | 25 | **540** | 5 | 9/20/00 | 9/22/00 | |
| **Strontium** | EPA 200.7 | P0I2028 | 1.0 | **1.3** | 10 | 9/20/00 | 9/28/00 | |
| Vanadium | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| Zinc | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| **Sample ID: PJI0296-08 (MW-5D - Water)** | | | | | | | | |
| Aluminum | EPA 200.7 | P0I2028 | 0.50 | ND | 1 | 9/20/00 | 9/21/00 | |
| Antimony | EPA 200.9 | P0I2027 | 0.0040 | ND | 1 | 9/20/00 | 9/28/00 | |
| Arsenic | EPA 200.9 | P0I2027 | 0.0030 | ND | 1 | 9/20/00 | 10/3/00 | |
| **Barium** | EPA 200.7 | P0I2028 | 0.010 | **0.10** | 1 | 9/20/00 | 9/21/00 | |
| Beryllium | EPA 200.9 | P0I2027 | 0.00050 | ND | 1 | 9/20/00 | 10/4/00 | |
| Cadmium | EPA 200.9 | P0I2027 | 0.00050 | ND | 1 | 9/20/00 | 9/28/00 | |
| **Calcium** | EPA 200.7 | P0I2028 | 2.0 | **210** | 1 | 9/20/00 | 9/21/00 | |
| **Chromium** | EPA 200.9 | P0I2027 | 0.0040 | **0.019** | 1 | 9/20/00 | 10/3/00 | |
| Cobalt | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| Copper | EPA 200.7 | P0I2028 | 0.020 | ND | 1 | 9/20/00 | 9/21/00 | |
| **Iron** | EPA 200.7 | P0I2028 | 0.10 | **0.30** | 1 | 9/20/00 | 9/21/00 | |
| Lead | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| **Magnesium** | EPA 200.7 | P0I2028 | 0.50 | **76** | 1 | 9/20/00 | 9/21/00 | |
| Manganese | EPA 200.7 | P0I2028 | 0.020 | ND | 1 | 9/20/00 | 9/21/00 | |
| Nickel | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| Selenium | EPA 200.9 | P0I2027 | 0.0040 | ND | 1 | 9/20/00 | 10/2/00 | |
| Silver | EPA 200.7 | P0I2028 | 0.0050 | ND | 1 | 9/20/00 | 9/21/00 | |
| **Sodium** | EPA 273.1 | P0I2028 | 25 | **430** | 5 | 9/20/00 | 9/22/00 | |
| **Strontium** | EPA 200.7 | P0I2028 | 1.0 | **2.0** | 10 | 9/20/00 | 9/28/00 | |
| Vanadium | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| Zinc | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |

Julie M. Slocum
Project Manager



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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2
Report Number: PJI0296

Sampled: 09/19/00
Received: 09/19/00

## TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJI0296-09 (MW-5S - Water)** | | | | | | | | |
| Aluminum | EPA 200.7 | P0I2028 | 0.50 | ND | 1 | 9/20/00 | 9/21/00 | |
| Antimony | EPA 200.9 | P0I2027 | 0.0040 | ND | 1 | 9/20/00 | 9/28/00 | |
| **Arsenic** | EPA 200.9 | P0I2027 | 0.0030 | **0.0035** | 1 | 9/20/00 | 10/3/00 | |
| **Barium** | EPA 200.7 | P0I2028 | 0.010 | **0.073** | 1 | 9/20/00 | 9/21/00 | |
| Beryllium | EPA 200.9 | P0I2027 | 0.00050 | ND | 1 | 9/20/00 | 10/4/00 | |
| Cadmium | EPA 200.9 | P0I2027 | 0.00050 | ND | 1 | 9/20/00 | 9/28/00 | |
| **Calcium** | EPA 200.7 | P0I2028 | 2.0 | **120** | 1 | 9/20/00 | 9/21/00 | |
| **Chromium** | EPA 200.9 | P0I2027 | 0.0040 | **0.028** | 1 | 9/20/00 | 10/3/00 | |
| Cobalt | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| Copper | EPA 200.7 | P0I2028 | 0.020 | ND | 1 | 9/20/00 | 9/21/00 | |
| **Iron** | EPA 200.7 | P0I2028 | 0.10 | **0.18** | 1 | 9/20/00 | 9/21/00 | |
| Lead | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| **Magnesium** | EPA 200.7 | P0I2028 | 0.50 | **43** | 1 | 9/20/00 | 9/21/00 | |
| Manganese | EPA 200.7 | P0I2028 | 0.020 | ND | 1 | 9/20/00 | 9/21/00 | |
| Nickel | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| Selenium | EPA 200.9 | P0I2027 | 0.0040 | ND | 1 | 9/20/00 | 10/2/00 | |
| Silver | EPA 200.7 | P0I2028 | 0.0050 | ND | 1 | 9/20/00 | 9/21/00 | |
| **Sodium** | EPA 273.1 | P0I2028 | 25 | **380** | 5 | 9/20/00 | 9/22/00 | |
| **Strontium** | EPA 200.7 | P0I2028 | 0.50 | **1.2** | 5 | 9/20/00 | 10/2/00 | |
| Vanadium | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| Zinc | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |

**DEL MAR ANALYTICAL, PHOENIX (AZ0426)**

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Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2

Report Number: PJI0296

Sampled: 09/19/00
Received: 09/19/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0I2712 Extracted: 09/27/00** | | | | | | | | | | |
| **Blank Analyzed: 09/27/00 (P0I2712-BLK1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | |
| Benzene | ND | 2.0 | ug/l | | | | | | | |
| Bromobenzene | ND | 5.0 | ug/l | | | | | | | |
| Bromochloromethane | ND | 5.0 | ug/l | | | | | | | |
| Bromodichloromethane | ND | 2.0 | ug/l | | | | | | | |
| Bromoform | ND | 5.0 | ug/l | | | | | | | |
| Bromomethane | ND | 5.0 | ug/l | | | | | | | |
| 2-Butanone (MEK) | ND | 10 | ug/l | | | | | | | |
| n-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| sec-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| tert-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| Carbon Disulfide | ND | 5.0 | ug/l | | | | | | | |
| Carbon tetrachloride | ND | 5.0 | ug/l | | | | | | | |
| Chlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| Chloroethane | ND | 5.0 | ug/l | | | | | | | |
| Chloroform | ND | 2.0 | ug/l | | | | | | | |
| Chloromethane | ND | 5.0 | ug/l | | | | | | | |
| 2-Chlorotoluene | ND | 5.0 | ug/l | | | | | | | |
| 4-Chlorotoluene | ND | 5.0 | ug/l | | | | | | | |
| Dibromochloromethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/l | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 2.0 | ug/l | | | | | | | |
| Dibromomethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| Dichlorodifluoromethane | ND | 5.0 | ug/l | | | | | | | |
| 1,1-Dichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,1-Dichloroethene | ND | 5.0 | ug/l | | | | | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2
Report Number: PJI0296

Sampled: 09/19/00
Received: 09/19/00

## METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0I2712 Extracted: 09/27/00** | | | | | | | | | | |
| **Blank Analyzed: 09/27/00 (P0I2712-BLK1)** | | | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 2.0 | ug/l | | | | | | | |
| trans-1,2-Dichloroethene | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,3-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 2,2-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,1-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| cis-1,3-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| Ethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 5.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 10 | ug/l | | | | | | | |
| Iodomethane | ND | 2.0 | ug/l | | | | | | | |
| Isopropylbenzene | ND | 2.0 | ug/l | | | | | | | |
| p-Isopropyltoluene | ND | 2.0 | ug/l | | | | | | | |
| Methylene chloride | ND | 5.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentatnone (MIBK) | ND | 10 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 5.0 | ug/l | | | | | | | |
| Naphthalene | ND | 5.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Styrene | ND | 2.0 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/l | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 2.0 | ug/l | | | | | | | |
| Toluene | ND | 2.0 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 5.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,1,2-Trichloroethane | ND | 2.0 | ug/l | | | | | | | |
| Trichloroethene | ND | 2.0 | ug/l | | | | | | | |
| Trichlorofluoromethane | ND | 5.0 | ug/l | | | | | | | |

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2

Report Number: PJI0296

Sampled: 09/19/00
Received: 09/19/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0I2712 Extracted: 09/27/00** | | | | | | | | | | |
| **Blank Analyzed: 09/27/00 (P0I2712-BLK1)** | | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 10 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Vinyl acetate | ND | 5.0 | ug/l | | | | | | | |
| Vinyl chloride | ND | 5.0 | ug/l | | | | | | | |
| Xylenes, Total | ND | 10 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *22.4* | | *ug/l* | *25.0* | | *89.6* | *70-160* | | | |
| *Surrogate: Toluene-d8* | *23.6* | | *ug/l* | *25.0* | | *94.4* | *75-140* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *24.6* | | *ug/l* | *25.0* | | *98.4* | *75-135* | | | |
| **LCS Analyzed: 09/27/00 (P0I2712-BS1)** | | | | | | | | | | |
| **Acetone** | **26.2** | 20 | ug/l | 25.0 | | 105 | 35-150 | | | |
| **Benzene** | **23.2** | 2.0 | ug/l | 25.0 | | 92.8 | 75-120 | | | |
| **Bromobenzene** | **24.5** | 5.0 | ug/l | 25.0 | | 98.0 | 65-150 | | | |
| **Bromochloromethane** | **23.5** | 5.0 | ug/l | 25.0 | | 94.0 | 60-155 | | | |
| **Bromodichloromethane** | **24.4** | 2.0 | ug/l | 25.0 | | 97.6 | 60-155 | | | |
| **Bromoform** | **24.5** | 5.0 | ug/l | 25.0 | | 98.0 | 25-160 | | | |
| **Bromomethane** | **27.5** | 5.0 | ug/l | 25.0 | | 110 | 55-170 | | | |
| **2-Butanone (MEK)** | **23.3** | 10 | ug/l | 25.0 | | 93.2 | 35-165 | | | |
| **n-Butylbenzene** | **24.0** | 5.0 | ug/l | 25.0 | | 96.0 | 65-140 | | | |
| **sec-Butylbenzene** | **24.2** | 5.0 | ug/l | 25.0 | | 96.8 | 60-145 | | | |
| **tert-Butylbenzene** | **24.9** | 5.0 | ug/l | 25.0 | | 99.6 | 65-145 | | | |
| **Carbon Disulfide** | **42.8** | 5.0 | ug/l | 25.0 | | 171 | 65-155 | | | L |
| **Carbon tetrachloride** | **24.4** | 5.0 | ug/l | 25.0 | | 97.6 | 65-150 | | | |
| **Chlorobenzene** | **23.7** | 2.0 | ug/l | 25.0 | | 94.8 | 75-130 | | | |
| **Chloroethane** | **24.8** | 5.0 | ug/l | 25.0 | | 99.2 | 65-165 | | | |
| **Chloroform** | **23.9** | 2.0 | ug/l | 25.0 | | 95.6 | 70-130 | | | |
| **Chloromethane** | **21.7** | 5.0 | ug/l | 25.0 | | 86.8 | 60-165 | | | |
| **2-Chlorotoluene** | **25.7** | 5.0 | ug/l | 25.0 | | 103 | 65-145 | | | |
| **4-Chlorotoluene** | **24.7** | 5.0 | ug/l | 25.0 | | 98.8 | 70-145 | | | |
| **Dibromochloromethane** | **24.8** | 2.0 | ug/l | 25.0 | | 99.2 | 55-155 | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2

Report Number: PJI0296

Sampled: 09/19/00
Received: 09/19/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0I2712 Extracted: 09/27/00** | | | | | | | | | | |
| **LCS Analyzed: 09/27/00 (P0I2712-BS1)** | | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | 21.5 | 5.0 | ug/l | 25.0 | | 86.0 | 40-150 | | | |
| 1,2-Dibromoethane (EDB) | 23.9 | 2.0 | ug/l | 25.0 | | 95.6 | 55-155 | | | |
| Dibromomethane | 23.7 | 2.0 | ug/l | 25.0 | | 94.8 | 60-155 | | | |
| 1,2-Dichlorobenzene | 24.1 | 2.0 | ug/l | 25.0 | | 96.4 | 65-140 | | | |
| 1,3-Dichlorobenzene | 23.9 | 2.0 | ug/l | 25.0 | | 95.6 | 65-145 | | | |
| 1,4-Dichlorobenzene | 24.3 | 2.0 | ug/l | 25.0 | | 97.2 | 65-140 | | | |
| Dichlorodifluoromethane | 24.7 | 5.0 | ug/l | 25.0 | | 98.8 | 30-190 | | | |
| 1,1-Dichloroethane | 23.5 | 2.0 | ug/l | 25.0 | | 94.0 | 70-130 | | | |
| 1,2-Dichloroethane | 25.4 | 2.0 | ug/l | 25.0 | | 102 | 70-130 | | | |
| 1,1-Dichloroethene | 23.4 | 5.0 | ug/l | 25.0 | | 93.6 | 75-125 | | | |
| cis-1,2-Dichloroethene | 24.0 | 2.0 | ug/l | 25.0 | | 96.0 | 70-130 | | | |
| trans-1,2-Dichloroethene | 23.2 | 2.0 | ug/l | 25.0 | | 92.8 | 55-175 | | | |
| 1,2-Dichloropropane | 24.6 | 2.0 | ug/l | 25.0 | | 98.4 | 70-130 | | | |
| 1,3-Dichloropropane | 23.1 | 2.0 | ug/l | 25.0 | | 92.4 | 60-150 | | | |
| 2,2-Dichloropropane | 24.5 | 2.0 | ug/l | 25.0 | | 98.0 | 15-200 | | | |
| 1,1-Dichloropropene | 23.0 | 2.0 | ug/l | 25.0 | | 92.0 | 65-150 | | | |
| cis-1,3-Dichloropropene | 23.9 | 2.0 | ug/l | 25.0 | | 95.6 | 65-150 | | | |
| trans-1,3-Dichloropropene | 23.6 | 2.0 | ug/l | 25.0 | | 94.4 | 60-150 | | | |
| Ethylbenzene | 23.2 | 2.0 | ug/l | 25.0 | | 92.8 | 60-150 | | | |
| Hexachlorobutadiene | 28.0 | 5.0 | ug/l | 25.0 | | 112 | 55-150 | | | |
| 2-Hexanone | 22.9 | 10 | ug/l | 25.0 | | 91.6 | 35-165 | | | |
| Iodomethane | 33.2 | 2.0 | ug/l | 25.0 | | 133 | 65-160 | | | |
| Isopropylbenzene | 23.9 | 2.0 | ug/l | 25.0 | | 95.6 | 65-145 | | | |
| p-Isopropyltoluene | 23.3 | 2.0 | ug/l | 25.0 | | 93.2 | 60-145 | | | |
| Methylene chloride | 23.3 | 5.0 | ug/l | 25.0 | | 93.2 | 65-160 | | | |
| 4-Methyl-2-pentatnone (MIBK) | 21.9 | 10 | ug/l | 25.0 | | 87.6 | 40-165 | | | |
| Methyl-tert-butyl Ether (MTBE) | 23.4 | 5.0 | ug/l | 25.0 | | 93.6 | 60-160 | | | |
| Naphthalene | 23.7 | 5.0 | ug/l | 25.0 | | 94.8 | 50-150 | | | |
| n-Propylbenzene | 25.0 | 2.0 | ug/l | 25.0 | | 100 | 70-145 | | | |
| Styrene | 24.0 | 2.0 | ug/l | 25.0 | | 96.0 | 65-150 | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2

Report Number: PJI0296

Sampled: 09/19/00
Received: 09/19/00

METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0I2712 Extracted: 09/27/00** | | | | | | | | | | |
| **LCS Analyzed: 09/27/00 (P0I2712-BS1)** | | | | | | | | | | |
| **1,1,1,2-Tetrachloroethane** | **24.2** | 5.0 | ug/l | 25.0 | | 96.8 | 60-155 | | | |
| **1,1,2,2-Tetrachloroethane** | **22.9** | 2.0 | ug/l | 25.0 | | 91.6 | 65-150 | | | |
| **Tetrachloroethene** | **24.5** | 2.0 | ug/l | 25.0 | | 98.0 | 70-130 | | | |
| **Toluene** | **23.3** | 2.0 | ug/l | 25.0 | | 93.2 | 70-125 | | | |
| **1,2,3-Trichlorobenzene** | **25.0** | 5.0 | ug/l | 25.0 | | 100 | 55-150 | | | |
| **1,2,4-Trichlorobenzene** | **25.1** | 5.0 | ug/l | 25.0 | | 100 | 60-145 | | | |
| **1,1,1-Trichloroethane** | **24.1** | 2.0 | ug/l | 25.0 | | 96.4 | 70-130 | | | |
| **1,1,2-Trichloroethane** | **23.8** | 2.0 | ug/l | 25.0 | | 95.2 | 70-130 | | | |
| **Trichloroethene** | **23.9** | 2.0 | ug/l | 25.0 | | 95.6 | 75-120 | | | |
| **Trichlorofluoromethane** | **23.3** | 5.0 | ug/l | 25.0 | | 93.2 | 10-200 | | | |
| **1,2,3-Trichloropropane** | **23.1** | 10 | ug/l | 25.0 | | 92.4 | 55-150 | | | |
| **1,2,4-Trimethylbenzene** | **24.9** | 2.0 | ug/l | 25.0 | | 99.6 | 65-150 | | | |
| **1,3,5-Trimethylbenzene** | **24.1** | 2.0 | ug/l | 25.0 | | 96.4 | 65-150 | | | |
| **Vinyl acetate** | **29.3** | 5.0 | ug/l | 25.0 | | 117 | 50-160 | | | |
| **Vinyl chloride** | **21.5** | 5.0 | ug/l | 25.0 | | 86.0 | 25-200 | | | |
| **Xylenes, Total** | **70.8** | 10 | ug/l | 75.0 | | 94.4 | 65-145 | | | |
| *Surrogate: Dibromofluoromethane* | *22.8* | | *ug/l* | *25.0* | | *91.2* | *70-160* | | | |
| *Surrogate: Toluene-d8* | *22.9* | | *ug/l* | *25.0* | | *91.6* | *75-140* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *23.7* | | *ug/l* | *25.0* | | *94.8* | *75-135* | | | |
| **LCS Dup Analyzed: 09/27/00 (P0I2712-BSD1)** | | | | | | | | | | |
| **Acetone** | **24.1** | 20 | ug/l | 25.0 | | 96.4 | 35-150 | 8.35 | 20 | |
| **Benzene** | **23.2** | 2.0 | ug/l | 25.0 | | 92.8 | 75-120 | 0 | 20 | |
| **Bromobenzene** | **24.4** | 5.0 | ug/l | 25.0 | | 97.6 | 65-150 | 0.409 | 20 | |
| **Bromochloromethane** | **22.9** | 5.0 | ug/l | 25.0 | | 91.6 | 60-155 | 2.59 | 20 | |
| **Bromodichloromethane** | **24.2** | 2.0 | ug/l | 25.0 | | 96.8 | 60-155 | 0.823 | 20 | |
| **Bromoform** | **24.4** | 5.0 | ug/l | 25.0 | | 97.6 | 25-160 | 0.409 | 20 | |
| **Bromomethane** | **24.5** | 5.0 | ug/l | 25.0 | | 98.0 | 55-170 | 11.5 | 20 | |
| **2-Butanone (MEK)** | **19.7** | 10 | ug/l | 25.0 | | 78.8 | 35-165 | 16.7 | 20 | |
| **n-Butylbenzene** | **23.6** | 5.0 | ug/l | 25.0 | | 94.4 | 65-140 | 1.68 | 20 | |
| **sec-Butylbenzene** | **23.5** | 5.0 | ug/l | 25.0 | | 94.0 | 60-145 | 2.94 | 20 | |

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Project Manager



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4634 S. 36th Place
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Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2

Report Number: PJI0296

Sampled: 09/19/00
Received: 09/19/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0I2712 Extracted: 09/27/00** | | | | | | | | | | |
| **LCS Dup Analyzed: 09/27/00 (P0I2712-BSD1)** | | | | | | | | | | |
| tert-Butylbenzene | 24.1 | 5.0 | ug/l | 25.0 | | 96.4 | 65-145 | 3.27 | 20 | |
| Carbon Disulfide | 39.3 | 5.0 | ug/l | 25.0 | | 157 | 65-155 | 8.53 | 20 | L |
| Carbon tetrachloride | 23.0 | 5.0 | ug/l | 25.0 | | 92.0 | 65-150 | 5.91 | 20 | |
| Chlorobenzene | 23.1 | 2.0 | ug/l | 25.0 | | 92.4 | 75-130 | 2.56 | 20 | |
| Chloroethane | 22.0 | 5.0 | ug/l | 25.0 | | 88.0 | 65-165 | 12.0 | 20 | |
| Chloroform | 22.5 | 2.0 | ug/l | 25.0 | | 90.0 | 70-130 | 6.03 | 20 | |
| Chloromethane | 18.5 | 5.0 | ug/l | 25.0 | | 74.0 | 60-165 | 15.9 | 20 | |
| 2-Chlorotoluene | 25.2 | 5.0 | ug/l | 25.0 | | 101 | 65-145 | 1.96 | 20 | |
| 4-Chlorotoluene | 23.9 | 5.0 | ug/l | 25.0 | | 95.6 | 70-145 | 3.29 | 20 | |
| Dibromochloromethane | 24.5 | 2.0 | ug/l | 25.0 | | 98.0 | 55-155 | 1.22 | 20 | |
| 1,2-Dibromo-3-chloropropane | 23.1 | 5.0 | ug/l | 25.0 | | 92.4 | 40-150 | 7.17 | 20 | |
| 1,2-Dibromoethane (EDB) | 23.4 | 2.0 | ug/l | 25.0 | | 93.6 | 55-155 | 2.11 | 20 | |
| Dibromomethane | 23.4 | 2.0 | ug/l | 25.0 | | 93.6 | 60-155 | 1.27 | 20 | |
| 1,2-Dichlorobenzene | 23.8 | 2.0 | ug/l | 25.0 | | 95.2 | 65-140 | 1.25 | 20 | |
| 1,3-Dichlorobenzene | 23.4 | 2.0 | ug/l | 25.0 | | 93.6 | 65-145 | 2.11 | 20 | |
| 1,4-Dichlorobenzene | 23.7 | 2.0 | ug/l | 25.0 | | 94.8 | 65-140 | 2.50 | 20 | |
| Dichlorodifluoromethane | 22.8 | 5.0 | ug/l | 25.0 | | 91.2 | 30-190 | 8.00 | 20 | |
| 1,1-Dichloroethane | 21.9 | 2.0 | ug/l | 25.0 | | 87.6 | 70-130 | 7.05 | 20 | |
| 1,2-Dichloroethane | 25.4 | 2.0 | ug/l | 25.0 | | 102 | 70-130 | 0 | 20 | |
| 1,1-Dichloroethene | 22.2 | 5.0 | ug/l | 25.0 | | 88.8 | 75-125 | 5.26 | 20 | |
| cis-1,2-Dichloroethene | 21.8 | 2.0 | ug/l | 25.0 | | 87.2 | 70-130 | 9.61 | 20 | |
| trans-1,2-Dichloroethene | 21.3 | 2.0 | ug/l | 25.0 | | 85.2 | 55-175 | 8.54 | 20 | |
| 1,2-Dichloropropane | 24.5 | 2.0 | ug/l | 25.0 | | 98.0 | 70-130 | 0.407 | 20 | |
| 1,3-Dichloropropane | 23.0 | 2.0 | ug/l | 25.0 | | 92.0 | 60-150 | 0.434 | 20 | |
| 2,2-Dichloropropane | 22.9 | 2.0 | ug/l | 25.0 | | 91.6 | 15-200 | 6.75 | 20 | |
| 1,1-Dichloropropene | 21.9 | 2.0 | ug/l | 25.0 | | 87.6 | 65-150 | 4.90 | 20 | |
| cis-1,3-Dichloropropene | 23.0 | 2.0 | ug/l | 25.0 | | 92.0 | 65-150 | 3.84 | 20 | |
| trans-1,3-Dichloropropene | 23.4 | 2.0 | ug/l | 25.0 | | 93.6 | 60-150 | 0.851 | 20 | |
| Ethylbenzene | 22.6 | 2.0 | ug/l | 25.0 | | 90.4 | 60-150 | 2.62 | 20 | |
| Hexachlorobutadiene | 26.1 | 5.0 | ug/l | 25.0 | | 104 | 55-150 | 7.02 | 20 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2

Report Number: PJI0296

Sampled: 09/19/00
Received: 09/19/00

## METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0I2712 Extracted: 09/27/00** | | | | | | | | | | |
| **LCS Dup Analyzed: 09/27/00 (P0I2712-BSD1)** | | | | | | | | | | |
| **2-Hexanone** | **23.3** | 10 | ug/l | 25.0 | | 93.2 | 35-165 | 1.73 | 20 | |
| **Iodomethane** | **31.1** | 2.0 | ug/l | 25.0 | | 124 | 65-160 | 6.53 | 20 | |
| **Isopropylbenzene** | **23.3** | 2.0 | ug/l | 25.0 | | 93.2 | 65-145 | 2.54 | 20 | |
| **p-Isopropyltoluene** | **23.1** | 2.0 | ug/l | 25.0 | | 92.4 | 60-145 | 0.862 | 20 | |
| **Methylene chloride** | **21.7** | 5.0 | ug/l | 25.0 | | 86.8 | 65-160 | 7.11 | 20 | |
| **4-Methyl-2-pentatnone (MIBK)** | **22.8** | 10 | ug/l | 25.0 | | 91.2 | 40-165 | 4.03 | 20 | |
| **Methyl-tert-butyl Ether (MTBE)** | **22.3** | 5.0 | ug/l | 25.0 | | 89.2 | 60-160 | 4.81 | 20 | |
| **Naphthalene** | **22.9** | 5.0 | ug/l | 25.0 | | 91.6 | 50-150 | 3.43 | 20 | |
| **n-Propylbenzene** | **24.4** | 2.0 | ug/l | 25.0 | | 97.6 | 70-145 | 2.43 | 20 | |
| **Styrene** | **23.6** | 2.0 | ug/l | 25.0 | | 94.4 | 65-150 | 1.68 | 20 | |
| **1,1,1,2-Tetrachloroethane** | **24.1** | 5.0 | ug/l | 25.0 | | 96.4 | 60-155 | 0.414 | 20 | |
| **1,1,2,2-Tetrachloroethane** | **23.5** | 2.0 | ug/l | 25.0 | | 94.0 | 65-150 | 2.59 | 20 | |
| **Tetrachloroethene** | **23.5** | 2.0 | ug/l | 25.0 | | 94.0 | 70-130 | 4.17 | 20 | |
| **Toluene** | **23.5** | 2.0 | ug/l | 25.0 | | 94.0 | 70-125 | 0.855 | 20 | |
| **1,2,3-Trichlorobenzene** | **23.9** | 5.0 | ug/l | 25.0 | | 95.6 | 55-150 | 4.50 | 20 | |
| **1,2,4-Trichlorobenzene** | **24.6** | 5.0 | ug/l | 25.0 | | 98.4 | 60-145 | 2.01 | 20 | |
| **1,1,1-Trichloroethane** | **22.3** | 2.0 | ug/l | 25.0 | | 89.2 | 70-130 | 7.76 | 20 | |
| **1,1,2-Trichloroethane** | **23.2** | 2.0 | ug/l | 25.0 | | 92.8 | 70-130 | 2.55 | 20 | |
| **Trichloroethene** | **24.3** | 2.0 | ug/l | 25.0 | | 97.2 | 75-120 | 1.66 | 20 | |
| **Trichlorofluoromethane** | **21.6** | 5.0 | ug/l | 25.0 | | 86.4 | 10-200 | 7.57 | 20 | |
| **1,2,3-Trichloropropane** | **24.4** | 10 | ug/l | 25.0 | | 97.6 | 55-150 | 5.47 | 20 | |
| **1,2,4-Trimethylbenzene** | **24.3** | 2.0 | ug/l | 25.0 | | 97.2 | 65-150 | 2.44 | 20 | |
| **1,3,5-Trimethylbenzene** | **24.0** | 2.0 | ug/l | 25.0 | | 96.0 | 65-150 | 0.416 | 20 | |
| **Vinyl acetate** | **28.1** | 5.0 | ug/l | 25.0 | | 112 | 50-160 | 4.18 | 20 | |
| **Vinyl chloride** | **19.3** | 5.0 | ug/l | 25.0 | | 77.2 | 25-200 | 10.8 | 20 | |
| **Xylenes, Total** | **69.3** | 10 | ug/l | 75.0 | | 92.4 | 65-145 | 2.14 | 20 | |
| *Surrogate: Dibromofluoromethane* | *21.9* | | *ug/l* | *25.0* | | *87.6* | *70-160* | | | |
| *Surrogate: Toluene-d8* | *22.8* | | *ug/l* | *25.0* | | *91.2* | *75-140* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *23.3* | | *ug/l* | *25.0* | | *93.2* | *75-135* | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2
Report Number: PJI0296

Sampled: 09/19/00
Received: 09/19/00

## METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0I2712 Extracted: 09/27/00** | | | | | | | | | | |
| **Matrix Spike Analyzed: 09/27/00 (P0I2712-MS1)** | | | | | **Source: PJI0299-01** | | | | | |
| **Acetone** | **23.6** | 20 | ug/l | 25.0 | ND | 94.4 | 35-150 | | | |
| **Benzene** | **23.4** | 2.0 | ug/l | 25.0 | ND | 93.6 | 75-120 | | | |
| **Bromobenzene** | **24.5** | 5.0 | ug/l | 25.0 | ND | 98.0 | 65-150 | | | |
| **Bromochloromethane** | **25.1** | 5.0 | ug/l | 25.0 | ND | 100 | 60-155 | | | |
| **Bromodichloromethane** | **25.4** | 2.0 | ug/l | 25.0 | ND | 102 | 60-155 | | | |
| **Bromoform** | **24.4** | 5.0 | ug/l | 25.0 | ND | 97.6 | 25-160 | | | |
| **Bromomethane** | **25.7** | 5.0 | ug/l | 25.0 | ND | 103 | 55-170 | | | |
| **2-Butanone (MEK)** | **23.7** | 10 | ug/l | 25.0 | ND | 94.8 | 35-165 | | | |
| **n-Butylbenzene** | **24.2** | 5.0 | ug/l | 25.0 | ND | 96.8 | 65-140 | | | |
| **sec-Butylbenzene** | **24.4** | 5.0 | ug/l | 25.0 | ND | 97.6 | 60-145 | | | |
| **tert-Butylbenzene** | **24.9** | 5.0 | ug/l | 25.0 | ND | 99.6 | 65-145 | | | |
| **Carbon Disulfide** | **40.2** | 5.0 | ug/l | 25.0 | ND | 161 | 65-155 | | | M2 |
| **Carbon tetrachloride** | **25.3** | 5.0 | ug/l | 25.0 | ND | 101 | 65-150 | | | |
| **Chlorobenzene** | **23.5** | 2.0 | ug/l | 25.0 | ND | 94.0 | 75-130 | | | |
| **Chloroethane** | **23.0** | 5.0 | ug/l | 25.0 | ND | 92.0 | 65-165 | | | |
| **Chloroform** | **25.2** | 2.0 | ug/l | 25.0 | ND | 101 | 70-130 | | | |
| **Chloromethane** | **17.0** | 5.0 | ug/l | 25.0 | ND | 68.0 | 60-165 | | | |
| **2-Chlorotoluene** | **26.4** | 5.0 | ug/l | 25.0 | ND | 106 | 65-145 | | | |
| **4-Chlorotoluene** | **24.9** | 5.0 | ug/l | 25.0 | ND | 99.6 | 70-145 | | | |
| **Dibromochloromethane** | **25.3** | 2.0 | ug/l | 25.0 | ND | 101 | 55-155 | | | |
| **1,2-Dibromo-3-chloropropane** | **24.6** | 5.0 | ug/l | 25.0 | ND | 98.4 | 40-150 | | | |
| **1,2-Dibromoethane (EDB)** | **24.1** | 2.0 | ug/l | 25.0 | ND | 96.4 | 55-155 | | | |
| **Dibromomethane** | **25.0** | 2.0 | ug/l | 25.0 | ND | 100 | 60-155 | | | |
| **1,2-Dichlorobenzene** | **24.5** | 2.0 | ug/l | 25.0 | ND | 98.0 | 65-140 | | | |
| **1,3-Dichlorobenzene** | **24.3** | 2.0 | ug/l | 25.0 | ND | 97.2 | 65-145 | | | |
| **1,4-Dichlorobenzene** | **24.5** | 2.0 | ug/l | 25.0 | ND | 98.0 | 65-140 | | | |
| **Dichlorodifluoromethane** | **18.7** | 5.0 | ug/l | 25.0 | ND | 74.8 | 30-190 | | | |
| **1,1-Dichloroethane** | **23.7** | 2.0 | ug/l | 25.0 | ND | 94.8 | 70-130 | | | |
| **1,2-Dichloroethane** | **26.7** | 2.0 | ug/l | 25.0 | ND | 107 | 70-130 | | | |
| **1,1-Dichloroethene** | **23.6** | 5.0 | ug/l | 25.0 | ND | 94.4 | 65-135 | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2

Report Number: PJI0296

Sampled: 09/19/00
Received: 09/19/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0I2712 Extracted: 09/27/00** | | | | | | | | | | |
| **Matrix Spike Analyzed: 09/27/00 (P0I2712-MS1)** | | | | | **Source: PJI0299-01** | | | | | |
| cis-1,2-Dichloroethene | 24.4 | 2.0 | ug/l | 25.0 | ND | 97.6 | 70-130 | | | |
| trans-1,2-Dichloroethene | 23.4 | 2.0 | ug/l | 25.0 | ND | 93.6 | 55-175 | | | |
| 1,2-Dichloropropane | 25.5 | 2.0 | ug/l | 25.0 | ND | 102 | 70-130 | | | |
| 1,3-Dichloropropane | 23.9 | 2.0 | ug/l | 25.0 | ND | 95.6 | 60-150 | | | |
| 2,2-Dichloropropane | 23.5 | 2.0 | ug/l | 25.0 | ND | 94.0 | 15-200 | | | |
| 1,1-Dichloropropene | 23.7 | 2.0 | ug/l | 25.0 | ND | 94.8 | 65-150 | | | |
| cis-1,3-Dichloropropene | 22.9 | 2.0 | ug/l | 25.0 | ND | 91.6 | 65-150 | | | |
| trans-1,3-Dichloropropene | 23.2 | 2.0 | ug/l | 25.0 | ND | 92.8 | 60-150 | | | |
| Ethylbenzene | 23.0 | 2.0 | ug/l | 25.0 | ND | 92.0 | 60-150 | | | |
| Hexachlorobutadiene | 24.8 | 5.0 | ug/l | 25.0 | ND | 99.2 | 55-150 | | | |
| 2-Hexanone | 22.6 | 10 | ug/l | 25.0 | ND | 90.4 | 35-165 | | | |
| Iodomethane | 34.6 | 2.0 | ug/l | 25.0 | ND | 138 | 65-160 | | | |
| Isopropylbenzene | 23.8 | 2.0 | ug/l | 25.0 | ND | 95.2 | 65-145 | | | |
| p-Isopropyltoluene | 23.7 | 2.0 | ug/l | 25.0 | ND | 94.8 | 60-145 | | | |
| Methylene chloride | 23.5 | 5.0 | ug/l | 25.0 | ND | 94.0 | 65-160 | | | |
| 4-Methyl-2-pentatnone (MIBK) | 23.1 | 10 | ug/l | 25.0 | ND | 92.4 | 40-165 | | | |
| Methyl-tert-butyl Ether (MTBE) | 23.0 | 5.0 | ug/l | 25.0 | ND | 92.0 | 60-160 | | | |
| Naphthalene | 23.8 | 5.0 | ug/l | 25.0 | ND | 95.2 | 50-150 | | | |
| n-Propylbenzene | 25.3 | 2.0 | ug/l | 25.0 | ND | 101 | 70-145 | | | |
| Styrene | 20.7 | 2.0 | ug/l | 25.0 | ND | 82.8 | 65-150 | | | |
| 1,1,1,2-Tetrachloroethane | 24.4 | 5.0 | ug/l | 25.0 | ND | 97.6 | 60-155 | | | |
| 1,1,2,2-Tetrachloroethane | 24.6 | 2.0 | ug/l | 25.0 | ND | 98.4 | 65-150 | | | |
| Tetrachloroethene | 23.7 | 2.0 | ug/l | 25.0 | ND | 94.8 | 70-130 | | | |
| Toluene | 23.4 | 2.0 | ug/l | 25.0 | ND | 93.6 | 70-125 | | | |
| 1,2,3-Trichlorobenzene | 23.8 | 5.0 | ug/l | 25.0 | ND | 95.2 | 55-150 | | | |
| 1,2,4-Trichlorobenzene | 24.1 | 5.0 | ug/l | 25.0 | ND | 96.4 | 60-145 | | | |
| 1,1,1-Trichloroethane | 24.4 | 2.0 | ug/l | 25.0 | ND | 97.6 | 70-130 | | | |
| 1,1,2-Trichloroethane | 23.9 | 2.0 | ug/l | 25.0 | ND | 95.6 | 70-130 | | | |
| Trichloroethene | 23.6 | 2.0 | ug/l | 25.0 | ND | 94.4 | 75-120 | | | |
| Trichlorofluoromethane | 24.5 | 5.0 | ug/l | 25.0 | ND | 98.0 | 10-200 | | | |

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Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2
Report Number: PJI0296

Sampled: 09/19/00
Received: 09/19/00

## METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0I2712 Extracted: 09/27/00** | | | | | | | | | | |
| **Matrix Spike Analyzed: 09/27/00 (P0I2712-MS1)** | | | | | **Source: PJI0299-01** | | | | | |
| **1,2,3-Trichloropropane** | **25.9** | 10 | ug/l | 25.0 | ND | 104 | 55-150 | | | |
| **1,2,4-Trimethylbenzene** | **24.8** | 2.0 | ug/l | 25.0 | ND | 99.2 | 65-150 | | | |
| **1,3,5-Trimethylbenzene** | **24.5** | 2.0 | ug/l | 25.0 | ND | 98.0 | 65-150 | | | |
| **Vinyl acetate** | **23.3** | 5.0 | ug/l | 25.0 | ND | 93.2 | 50-160 | | | |
| **Vinyl chloride** | **19.1** | 5.0 | ug/l | 25.0 | ND | 76.4 | 25-200 | | | |
| **Xylenes, Total** | **70.1** | 10 | ug/l | 75.0 | ND | 93.5 | 65-145 | | | |
| *Surrogate: Dibromofluoromethane* | *23.7* | | *ug/l* | *25.0* | | *94.8* | *70-160* | | | |
| *Surrogate: Toluene-d8* | *22.5* | | *ug/l* | *25.0* | | *90.0* | *75-140* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *24.0* | | *ug/l* | *25.0* | | *96.0* | *75-135* | | | |
| **Matrix Spike Dup Analyzed: 09/27/00 (P0I2712-MSD1)** | | | | | **Source: PJI0299-01** | | | | | |
| **Acetone** | **23.9** | 20 | ug/l | 25.0 | ND | 95.6 | 35-150 | 1.26 | 20 | |
| **Benzene** | **24.0** | 2.0 | ug/l | 25.0 | ND | 96.0 | 75-120 | 2.53 | 20 | |
| **Bromobenzene** | **25.4** | 5.0 | ug/l | 25.0 | ND | 102 | 65-150 | 3.61 | 20 | |
| **Bromochloromethane** | **25.1** | 5.0 | ug/l | 25.0 | ND | 100 | 60-155 | 0 | 20 | |
| **Bromodichloromethane** | **25.9** | 2.0 | ug/l | 25.0 | ND | 104 | 60-155 | 1.95 | 20 | |
| **Bromoform** | **24.8** | 5.0 | ug/l | 25.0 | ND | 99.2 | 25-160 | 1.63 | 20 | |
| **Bromomethane** | **25.9** | 5.0 | ug/l | 25.0 | ND | 104 | 55-170 | 0.775 | 20 | |
| **2-Butanone (MEK)** | **24.6** | 10 | ug/l | 25.0 | ND | 98.4 | 35-165 | 3.73 | 20 | |
| **n-Butylbenzene** | **24.7** | 5.0 | ug/l | 25.0 | ND | 98.8 | 65-140 | 2.04 | 20 | |
| **sec-Butylbenzene** | **24.5** | 5.0 | ug/l | 25.0 | ND | 98.0 | 60-145 | 0.409 | 20 | |
| **tert-Butylbenzene** | **25.0** | 5.0 | ug/l | 25.0 | ND | 100 | 65-145 | 0.401 | 20 | |
| **Carbon Disulfide** | **41.3** | 5.0 | ug/l | 25.0 | ND | 165 | 65-155 | 2.70 | 20 | M2 |
| **Carbon tetrachloride** | **25.5** | 5.0 | ug/l | 25.0 | ND | 102 | 65-150 | 0.787 | 20 | |
| **Chlorobenzene** | **23.8** | 2.0 | ug/l | 25.0 | ND | 95.2 | 75-130 | 1.27 | 20 | |
| **Chloroethane** | **23.0** | 5.0 | ug/l | 25.0 | ND | 92.0 | 65-165 | 0 | 20 | |
| **Chloroform** | **25.4** | 2.0 | ug/l | 25.0 | ND | 102 | 70-130 | 0.791 | 20 | |
| **Chloromethane** | **17.4** | 5.0 | ug/l | 25.0 | ND | 69.6 | 60-165 | 2.33 | 20 | |
| **2-Chlorotoluene** | **26.3** | 5.0 | ug/l | 25.0 | ND | 105 | 65-145 | 0.380 | 20 | |
| **4-Chlorotoluene** | **25.4** | 5.0 | ug/l | 25.0 | ND | 102 | 70-145 | 1.99 | 20 | |
| **Dibromochloromethane** | **25.3** | 2.0 | ug/l | 25.0 | ND | 101 | 55-155 | 0 | 20 | |

Julie M. Slocum
Project Manager



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Client Project ID: 70211-0-0150-2-2-2

Report Number: PJI0296

Sampled: 09/19/00
Received: 09/19/00

## METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0I2712 Extracted: 09/27/00** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 09/27/00 (P0I2712-MSD1)** | | | | | **Source: PJI0299-01** | | | | | |
| **1,2-Dibromo-3-chloropropane** | **24.4** | 5.0 | ug/l | 25.0 | ND | 97.6 | 40-150 | 0.816 | 20 | |
| **1,2-Dibromoethane (EDB)** | **25.0** | 2.0 | ug/l | 25.0 | ND | 100 | 55-155 | 3.67 | 20 | |
| **Dibromomethane** | **25.3** | 2.0 | ug/l | 25.0 | ND | 101 | 60-155 | 1.19 | 20 | |
| **1,2-Dichlorobenzene** | **25.2** | 2.0 | ug/l | 25.0 | ND | 101 | 65-140 | 2.82 | 20 | |
| **1,3-Dichlorobenzene** | **24.4** | 2.0 | ug/l | 25.0 | ND | 97.6 | 65-145 | 0.411 | 20 | |
| **1,4-Dichlorobenzene** | **24.7** | 2.0 | ug/l | 25.0 | ND | 98.8 | 65-140 | 0.813 | 20 | |
| **Dichlorodifluoromethane** | **19.0** | 5.0 | ug/l | 25.0 | ND | 76.0 | 30-190 | 1.59 | 20 | |
| **1,1-Dichloroethane** | **23.8** | 2.0 | ug/l | 25.0 | ND | 95.2 | 70-130 | 0.421 | 20 | |
| **1,2-Dichloroethane** | **27.8** | 2.0 | ug/l | 25.0 | ND | 111 | 70-130 | 4.04 | 20 | |
| **1,1-Dichloroethene** | **23.5** | 5.0 | ug/l | 25.0 | ND | 94.0 | 65-135 | 0.425 | 20 | |
| **cis-1,2-Dichloroethene** | **25.3** | 2.0 | ug/l | 25.0 | ND | 101 | 70-130 | 3.62 | 20 | |
| **trans-1,2-Dichloroethene** | **23.3** | 2.0 | ug/l | 25.0 | ND | 93.2 | 55-175 | 0.428 | 20 | |
| **1,2-Dichloropropane** | **25.6** | 2.0 | ug/l | 25.0 | ND | 102 | 70-130 | 0.391 | 20 | |
| **1,3-Dichloropropane** | **24.6** | 2.0 | ug/l | 25.0 | ND | 98.4 | 60-150 | 2.89 | 20 | |
| **2,2-Dichloropropane** | **23.7** | 2.0 | ug/l | 25.0 | ND | 94.8 | 15-200 | 0.847 | 20 | |
| **1,1-Dichloropropene** | **24.3** | 2.0 | ug/l | 25.0 | ND | 97.2 | 65-150 | 2.50 | 20 | |
| **cis-1,3-Dichloropropene** | **23.3** | 2.0 | ug/l | 25.0 | ND | 93.2 | 65-150 | 1.73 | 20 | |
| **trans-1,3-Dichloropropene** | **23.3** | 2.0 | ug/l | 25.0 | ND | 93.2 | 60-150 | 0.430 | 20 | |
| **Ethylbenzene** | **23.0** | 2.0 | ug/l | 25.0 | ND | 92.0 | 60-150 | 0 | 20 | |
| **Hexachlorobutadiene** | **23.4** | 5.0 | ug/l | 25.0 | ND | 93.6 | 55-150 | 5.81 | 20 | |
| **2-Hexanone** | **23.9** | 10 | ug/l | 25.0 | ND | 95.6 | 35-165 | 5.59 | 20 | |
| **Iodomethane** | **34.5** | 2.0 | ug/l | 25.0 | ND | 138 | 65-160 | 0.289 | 20 | |
| **Isopropylbenzene** | **23.8** | 2.0 | ug/l | 25.0 | ND | 95.2 | 65-145 | 0 | 20 | |
| **p-Isopropyltoluene** | **23.8** | 2.0 | ug/l | 25.0 | ND | 95.2 | 60-145 | 0.421 | 20 | |
| **Methylene chloride** | **23.9** | 5.0 | ug/l | 25.0 | ND | 95.6 | 65-160 | 1.69 | 20 | |
| **4-Methyl-2-pentatnone (MIBK)** | **24.4** | 10 | ug/l | 25.0 | ND | 97.6 | 40-165 | 5.47 | 20 | |
| **Methyl-tert-butyl Ether (MTBE)** | **23.7** | 5.0 | ug/l | 25.0 | ND | 94.8 | 60-160 | 3.00 | 20 | |
| **Naphthalene** | **24.5** | 5.0 | ug/l | 25.0 | ND | 98.0 | 50-150 | 2.90 | 20 | |
| **n-Propylbenzene** | **25.7** | 2.0 | ug/l | 25.0 | ND | 103 | 70-145 | 1.57 | 20 | |
| **Styrene** | **20.1** | 2.0 | ug/l | 25.0 | ND | 80.4 | 65-150 | 2.94 | 20 | |

Julie M. Slocum
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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2

Report Number: PJI0296

Sampled: 09/19/00
Received: 09/19/00

## METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0I2712 Extracted: 09/27/00** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 09/27/00 (P0I2712-MSD1)** | | | | | **Source: PJI0299-01** | | | | | |
| **1,1,1,2-Tetrachloroethane** | **24.4** | 5.0 | ug/l | 25.0 | ND | 97.6 | 60-155 | 0 | 20 | |
| **1,1,2,2-Tetrachloroethane** | **25.4** | 2.0 | ug/l | 25.0 | ND | 102 | 65-150 | 3.20 | 20 | |
| **Tetrachloroethene** | **23.7** | 2.0 | ug/l | 25.0 | ND | 94.8 | 70-130 | 0 | 20 | |
| **Toluene** | **23.4** | 2.0 | ug/l | 25.0 | ND | 93.6 | 70-125 | 0 | 20 | |
| **1,2,3-Trichlorobenzene** | **24.2** | 5.0 | ug/l | 25.0 | ND | 96.8 | 55-150 | 1.67 | 20 | |
| **1,2,4-Trichlorobenzene** | **24.3** | 5.0 | ug/l | 25.0 | ND | 97.2 | 60-145 | 0.826 | 20 | |
| **1,1,1-Trichloroethane** | **25.0** | 2.0 | ug/l | 25.0 | ND | 100 | 70-130 | 2.43 | 20 | |
| **1,1,2-Trichloroethane** | **24.2** | 2.0 | ug/l | 25.0 | ND | 96.8 | 70-130 | 1.25 | 20 | |
| **Trichloroethene** | **24.5** | 2.0 | ug/l | 25.0 | ND | 98.0 | 75-120 | 3.74 | 20 | |
| **Trichlorofluoromethane** | **24.6** | 5.0 | ug/l | 25.0 | ND | 98.4 | 10-200 | 0.407 | 20 | |
| **1,2,3-Trichloropropane** | **27.0** | 10 | ug/l | 25.0 | ND | 108 | 55-150 | 4.16 | 20 | |
| **1,2,4-Trimethylbenzene** | **24.7** | 2.0 | ug/l | 25.0 | ND | 98.8 | 65-150 | 0.404 | 20 | |
| **1,3,5-Trimethylbenzene** | **24.5** | 2.0 | ug/l | 25.0 | ND | 98.0 | 65-150 | 0 | 20 | |
| **Vinyl acetate** | **24.2** | 5.0 | ug/l | 25.0 | ND | 96.8 | 50-160 | 3.79 | 20 | |
| **Vinyl chloride** | **19.5** | 5.0 | ug/l | 25.0 | ND | 78.0 | 25-200 | 2.07 | 20 | |
| **Xylenes, Total** | **70.9** | 10 | ug/l | 75.0 | ND | 94.5 | 65-145 | 1.13 | 20 | |
| *Surrogate: Dibromofluoromethane* | *23.6* | | *ug/l* | *25.0* | | *94.4* | *70-160* | | | |
| *Surrogate: Toluene-d8* | *22.4* | | *ug/l* | *25.0* | | *89.6* | *75-140* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *23.5* | | *ug/l* | *25.0* | | *94.0* | *75-135* | | | |

Julie M. Slocum
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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2

Report Number: PJI0296

Sampled: 09/19/00
Received: 09/19/00

METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0I2027 Extracted: 09/20/00** | | | | | | | | | | |
| **Blank Analyzed: 09/27/00 (P0I2027-BLK1)** | | | | | | | | | | |
| Antimony | ND | 0.0040 | mg/l | | | | | | | |
| Arsenic | ND | 0.0030 | mg/l | | | | | | | |
| Beryllium | ND | 0.00050 | mg/l | | | | | | | |
| Cadmium | ND | 0.00050 | mg/l | | | | | | | |
| Chromium | ND | 0.0040 | mg/l | | | | | | | |
| Selenium | ND | 0.0040 | mg/l | | | | | | | |
| **LCS Analyzed: 09/27/00 (P0I2027-BS1)** | | | | | | | | | | |
| **Antimony** | **0.0420** | 0.0080 | mg/l | 0.0400 | | 105 | 85-115 | | | |
| **Arsenic** | **0.0401** | 0.0060 | mg/l | 0.0400 | | 100 | 85-115 | | | |
| **Beryllium** | **0.00216** | 0.0010 | mg/l | 0.00200 | | 108 | 85-115 | | | |
| **Cadmium** | **0.00210** | 0.0010 | mg/l | 0.00200 | | 105 | 85-115 | | | |
| **Chromium** | **0.0446** | 0.0080 | mg/l | 0.0400 | | 111 | 85-115 | | | |
| **Selenium** | **0.0409** | 0.0080 | mg/l | 0.0400 | | 102 | 85-115 | | | |
| **LCS Dup Analyzed: 09/27/00 (P0I2027-BSD1)** | | | | | | | | | | |
| **Antimony** | **0.0418** | 0.0080 | mg/l | 0.0400 | | 105 | 85-115 | 0.477 | 20 | |
| **Arsenic** | **0.0413** | 0.0060 | mg/l | 0.0400 | | 103 | 85-115 | 2.95 | 20 | |
| **Beryllium** | **0.00215** | 0.0010 | mg/l | 0.00200 | | 107 | 85-115 | 0.464 | 20 | |
| **Cadmium** | **0.00204** | 0.0010 | mg/l | 0.00200 | | 102 | 85-115 | 2.90 | 20 | |
| **Chromium** | **0.0443** | 0.0080 | mg/l | 0.0400 | | 111 | 85-115 | 0.675 | 20 | |
| **Selenium** | **0.0427** | 0.0080 | mg/l | 0.0400 | | 107 | 85-115 | 4.31 | 20 | |
| **Matrix Spike Analyzed: 09/27/00 (P0I2027-MS1)** | | | | | **Source: PJI0296-01** | | | | | |
| **Antimony** | **0.0496** | 0.0080 | mg/l | 0.0400 | ND | 124 | 70-130 | | | |
| **Arsenic** | **0.0473** | 0.0060 | mg/l | 0.0400 | 0.0064 | 102 | 70-130 | | | |
| **Beryllium** | **0.00224** | 0.0010 | mg/l | 0.00200 | ND | 112 | 70-130 | | | |
| **Cadmium** | **0.00215** | 0.0010 | mg/l | 0.00200 | ND | 107 | 70-130 | | | |
| **Chromium** | **0.0542** | 0.0080 | mg/l | 0.0400 | ND | 128 | 70-130 | | | |
| **Selenium** | **0.0392** | 0.0080 | mg/l | 0.0400 | ND | 93.8 | 70-130 | | | |

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Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2
Report Number: PJI0296

Sampled: 09/19/00
Received: 09/19/00

## METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0I2027 Extracted: 09/20/00** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 09/27/00 (P0I2027-MSD1)** | | | | | Source: PJI0296-01 | | | | | |
| **Antimony** | **0.0499** | 0.0080 | mg/l | 0.0400 | ND | 125 | 70-130 | 0.603 | 20 | |
| **Arsenic** | **0.0447** | 0.0060 | mg/l | 0.0400 | 0.0064 | 95.8 | 70-130 | 5.65 | 20 | |
| **Beryllium** | **0.00222** | 0.0010 | mg/l | 0.00200 | ND | 111 | 70-130 | 0.897 | 20 | |
| **Cadmium** | **0.00206** | 0.0010 | mg/l | 0.00200 | ND | 103 | 70-130 | 4.28 | 20 | |
| **Chromium** | **0.0543** | 0.0080 | mg/l | 0.0400 | ND | 128 | 70-130 | 0.184 | 20 | |
| **Selenium** | **0.0374** | 0.0080 | mg/l | 0.0400 | ND | 89.3 | 70-130 | 4.70 | 20 | |
| **Batch: P0I2028 Extracted: 09/20/00** | | | | | | | | | | |
| **Blank Analyzed: 09/21/00 (P0I2028-BLK1)** | | | | | | | | | | |
| Aluminum | ND | 0.50 | mg/l | | | | | | | |
| Barium | ND | 0.010 | mg/l | | | | | | | |
| Calcium | ND | 2.0 | mg/l | | | | | | | |
| Cobalt | ND | 0.050 | mg/l | | | | | | | |
| Copper | ND | 0.020 | mg/l | | | | | | | |
| Iron | ND | 0.10 | mg/l | | | | | | | |
| Lead | ND | 0.050 | mg/l | | | | | | | |
| Magnesium | ND | 0.50 | mg/l | | | | | | | |
| Manganese | ND | 0.020 | mg/l | | | | | | | |
| Nickel | ND | 0.050 | mg/l | | | | | | | |
| Silver | ND | 0.0050 | mg/l | | | | | | | |
| Sodium | ND | 5.0 | mg/l | | | | | | | |
| Strontium | ND | 0.10 | mg/l | | | | | | | |
| Vanadium | ND | 0.050 | mg/l | | | | | | | |
| Zinc | ND | 0.050 | mg/l | | | | | | | |
| **LCS Analyzed: 09/21/00 (P0I2028-BS1)** | | | | | | | | | | |
| **Aluminum** | **1.08** | 0.50 | mg/l | 1.00 | | 108 | 85-115 | | | |
| **Barium** | **0.962** | 0.010 | mg/l | 1.00 | | 96.2 | 85-115 | | | |
| **Calcium** | **9.83** | 2.0 | mg/l | 10.0 | | 98.3 | 85-115 | | | |
| **Cobalt** | **0.968** | 0.050 | mg/l | 1.00 | | 96.8 | 85-115 | | | |
| **Copper** | **0.974** | 0.020 | mg/l | 1.00 | | 97.4 | 85-115 | | | |
| **Iron** | **10.0** | 0.10 | mg/l | 10.0 | | 100 | 85-115 | | | |

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2

Report Number: PJI0296

Sampled: 09/19/00
Received: 09/19/00

METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0I2028 Extracted: 09/20/00** | | | | | | | | | | |
| **LCS Analyzed: 09/21/00 (P0I2028-BS1)** | | | | | | | | | | |
| **Lead** | **0.987** | 0.050 | mg/l | 1.00 | | 98.7 | 85-115 | | | |
| **Magnesium** | **9.46** | 0.50 | mg/l | 10.0 | | 94.6 | 85-115 | | | |
| **Manganese** | **0.973** | 0.020 | mg/l | 1.00 | | 97.3 | 85-115 | | | |
| **Nickel** | **0.953** | 0.050 | mg/l | 1.00 | | 95.3 | 85-115 | | | |
| **Silver** | **0.0495** | 0.0050 | mg/l | 0.0500 | | 99.0 | 85-115 | | | |
| **Sodium** | **51.6** | 5.0 | mg/l | 50.0 | | 103 | 85-115 | | | |
| Strontium | ND | 0.10 | mg/l | 0.100 | | 92.6 | 85-115 | | | |
| **Vanadium** | **0.986** | 0.050 | mg/l | 1.00 | | 98.6 | 85-115 | | | |
| **Zinc** | **0.946** | 0.050 | mg/l | 1.00 | | 94.6 | 85-115 | | | |
| **LCS Dup Analyzed: 09/21/00 (P0I2028-BSD1)** | | | | | | | | | | |
| **Aluminum** | **1.06** | 0.50 | mg/l | 1.00 | | 106 | 85-115 | 1.87 | 20 | |
| **Barium** | **0.980** | 0.010 | mg/l | 1.00 | | 98.0 | 85-115 | 1.85 | 20 | |
| **Calcium** | **9.89** | 2.0 | mg/l | 10.0 | | 98.9 | 85-115 | 0.609 | 20 | |
| **Cobalt** | **0.978** | 0.050 | mg/l | 1.00 | | 97.8 | 85-115 | 1.03 | 20 | |
| **Copper** | **0.971** | 0.020 | mg/l | 1.00 | | 97.1 | 85-115 | 0.308 | 20 | |
| **Iron** | **10.0** | 0.10 | mg/l | 10.0 | | 100 | 85-115 | 0 | 20 | |
| **Lead** | **0.999** | 0.050 | mg/l | 1.00 | | 99.9 | 85-115 | 1.21 | 20 | |
| **Magnesium** | **9.46** | 0.50 | mg/l | 10.0 | | 94.6 | 85-115 | 0 | 20 | |
| **Manganese** | **0.971** | 0.020 | mg/l | 1.00 | | 97.1 | 85-115 | 0.206 | 20 | |
| **Nickel** | **0.950** | 0.050 | mg/l | 1.00 | | 95.0 | 85-115 | 0.315 | 20 | |
| **Silver** | **0.0511** | 0.0050 | mg/l | 0.0500 | | 102 | 85-115 | 3.18 | 20 | |
| **Sodium** | **51.0** | 5.0 | mg/l | 50.0 | | 102 | 85-115 | 1.17 | 20 | |
| Strontium | ND | 0.10 | mg/l | 0.100 | | 92.6 | 85-115 | 0 | 20 | |
| **Vanadium** | **0.985** | 0.050 | mg/l | 1.00 | | 98.5 | 85-115 | 0.101 | 20 | |
| **Zinc** | **0.955** | 0.050 | mg/l | 1.00 | | 95.5 | 85-115 | 0.947 | 20 | |
| **Matrix Spike Analyzed: 09/21/00 (P0I2028-MS1)** | | | | | **Source: PJI0296-01** | | | | | |
| **Aluminum** | **1.17** | 0.50 | mg/l | 1.00 | ND | 117 | 70-130 | | | |
| **Barium** | **1.05** | 0.010 | mg/l | 1.00 | 0.096 | 95.4 | 70-130 | | | |
| **Calcium** | **128** | 2.0 | mg/l | 10.0 | 120 | 80.0 | 70-130 | | | |
| **Cobalt** | **0.952** | 0.050 | mg/l | 1.00 | ND | 95.2 | 70-130 | | | |
| **Copper** | **0.987** | 0.020 | mg/l | 1.00 | ND | 97.3 | 70-130 | | | |

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4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2

Report Number: PJI0296

Sampled: 09/19/00
Received: 09/19/00

## METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0I2028 Extracted: 09/20/00** | | | | | | | | | | |
| **Matrix Spike Analyzed: 09/21/00 (P0I2028-MS1)** | | | | | **Source: PJI0296-01** | | | | | |
| **Iron** | **11.3** | 0.10 | mg/l | 10.0 | 1.4 | 99.0 | 70-130 | | | |
| **Lead** | **0.963** | 0.050 | mg/l | 1.00 | ND | 96.3 | 70-130 | | | |
| **Magnesium** | **53.3** | 0.50 | mg/l | 10.0 | 44 | 93.0 | 70-130 | | | |
| **Manganese** | **0.983** | 0.020 | mg/l | 1.00 | ND | 96.5 | 70-130 | | | |
| **Nickel** | **0.923** | 0.050 | mg/l | 1.00 | ND | 92.3 | 70-130 | | | |
| **Silver** | **0.0506** | 0.0050 | mg/l | 0.0500 | ND | 101 | 70-130 | | | |
| **Sodium** | **506** | 25 | mg/l | 50.0 | 460 | 92.0 | 85-115 | | | |
| **Strontium** | **1.19** | 1.0 | mg/l | 0.100 | 1.1 | 90.0 | 70-130 | | | |
| **Vanadium** | **1.00** | 0.050 | mg/l | 1.00 | ND | 99.3 | 70-130 | | | |
| **Zinc** | **0.885** | 0.050 | mg/l | 1.00 | ND | 88.5 | 70-130 | | | |
| **Matrix Spike Dup Analyzed: 09/21/00 (P0I2028-MSD1)** | | | | | **Source: PJI0296-01** | | | | | |
| **Aluminum** | **1.18** | 0.50 | mg/l | 1.00 | ND | 118 | 70-130 | 0.851 | 20 | |
| **Barium** | **1.04** | 0.010 | mg/l | 1.00 | 0.096 | 94.4 | 70-130 | 0.957 | 20 | |
| **Calcium** | **127** | 2.0 | mg/l | 10.0 | 120 | 70.0 | 70-130 | 0.784 | 20 | |
| **Cobalt** | **0.958** | 0.050 | mg/l | 1.00 | ND | 95.8 | 70-130 | 0.628 | 20 | |
| **Copper** | **0.985** | 0.020 | mg/l | 1.00 | ND | 97.1 | 70-130 | 0.203 | 20 | |
| **Iron** | **11.3** | 0.10 | mg/l | 10.0 | 1.4 | 99.0 | 70-130 | 0 | 20 | |
| **Lead** | **0.963** | 0.050 | mg/l | 1.00 | ND | 96.3 | 70-130 | 0 | 20 | |
| **Magnesium** | **52.6** | 0.50 | mg/l | 10.0 | 44 | 86.0 | 70-130 | 1.32 | 20 | |
| **Manganese** | **0.981** | 0.020 | mg/l | 1.00 | ND | 96.3 | 70-130 | 0.204 | 20 | |
| **Nickel** | **0.920** | 0.050 | mg/l | 1.00 | ND | 92.0 | 70-130 | 0.326 | 20 | |
| **Silver** | **0.0506** | 0.0050 | mg/l | 0.0500 | ND | 101 | 70-130 | 0 | 20 | |
| **Sodium** | **507** | 25 | mg/l | 50.0 | 460 | 94.0 | 85-115 | 0.197 | 20 | |
| **Strontium** | **1.14** | 1.0 | mg/l | 0.100 | 1.1 | 40.0 | 70-130 | 4.29 | 20 | M |
| **Vanadium** | **0.994** | 0.050 | mg/l | 1.00 | ND | 98.7 | 70-130 | 0.602 | 20 | |
| **Zinc** | **0.890** | 0.050 | mg/l | 1.00 | ND | 89.0 | 70-130 | 0.563 | 20 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2

Report Number: PJI0296

Sampled: 09/19/00
Received: 09/19/00

METHOD BLANK/QC DATA

# DATA QUALIFIERS AND DEFINITIONS

**C** Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.

**L** Laboratory Control Sample recovery was above the method control limits. Analyte not detected, data not impacted.

**M** The MS and/or MSD were outside of the acceptance limits due to sample matrix interference. See Blank Spike (LCS).

**M2** Matrix Spike recovery was outside the method control limits. See Corrective Action Report.

**ND** Analyte NOT DETECTED at or above the reporting limit

**NR** Not reported.

**RPD** Relative Percent Difference

Julie M. Slocum
Project Manager



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# CORRECTIVE ACTION REPORT

| | | | |
|---|---|---|---|
| Department: | GC/MS | Method: | 8260B |
| Date: | 09/27/2000 | Matrix: | Water |
| Batch: | P0I2712 | | |
| Samples: | PJI0296-01 – PJI0296-09 | | |

Identification and Definition of Problem:

Carbon Disulfide recovered high and outside of acceptance limits in the Laboratory Control Sample / Laboratory Control Sample Duplicate (LCS/LCSD) as well as the Matrix Spike / Matrix Spike Duplicate (MS/MSD).

Determination of the Cause of the Problem:

The cause of the high recoveries could not be determined.

Corrective Action:

All of the associated samples were non-detect for Carbon Disulfide and therefore should not be impacted by the high recoveries.

Elizabeth C. Wueschner: Elizabeth C. Wueschner Date: 10/10/2000
Quality Assurance Manager

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# CHAIN OF CUSTODY FORM

Page _____ of _____

| Client Name/Address: | Project/PO Number: |
|---|---|
| LAW Engineering | 70211-0.0150-2-2.2 |
| **Project Manager:** Jim Clarke | **Phone Number:** |
| **Sampler:** Wayne Bushnell | **Fax Number:** |

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date | Sampling Time | Preservatives | Method 8260 (Full) | Metals (Title 22) | | | | | | | Special Instructions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SCP well 78E-DN | | | | 9/19/00 | 7:25a | | X | X | | PJI0296-01 | | | | | |
| MW-6D | | | | 9/19/00 | 8:45 | | X | X | | | | | | -02 | |
| MW-1D | | | | 9/19/00 | 9:45am | | X | X | | | | | | -03 | |
| MW-1S | | | | 9/19/00 | 10:25am | | X | X | | | | | | -04 | |
| MW-2W | | | | 9/19/00 | 11:15am | | X | X | | | | | | -05 | |
| MW-AM-8S | | | | 9/19/00 | 11:45am | | X | X | | | | | | -06 | |
| MW-9S | | | | 9/19/00 | 12:30pm | | X | X | | | | | | -07 | |
| MW-5D | | | | 9/19/00 | 1:30pm | | X | X | | | | | | -08 | |
| MW-5S | | | | 9/19/00 | 2:30pm | | X | X | | | | | | -09 | |
| MW-4S | | | | 9/19/00 | 3:15pm | | X | X | | | CLD | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

| Relinquished By: | Date /Time: | Received by: | Date /Time: |
|---|---|---|---|
| | 9/19 4:25 pm | | 9/19/00 |
| Relinquished By: | Date /Time: | Received by: | Date /Time: |
| | 9/19/00 | | CLD |
| Relinquished By: | Date /Time: | Received in Lab by: | Date /Time: |
| CLD | | | 9/19/00 16:22 |

Turnaround Time: (Check)
same day _____ 72 hours _____
24 hours _____ 5 days _____
48 hours _____ normal X

Sample Integrity: (Check)
intact ✓ on ice _____

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

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| | | |
|---|---|---|
| Law Engineering<br>4634 S. 36th Place<br>Phoenix, AZ 85040<br>Attention: Jim Clarke | Client Project ID: 70211-0-0150-2-2-2/S.Mesa WQARF Study<br>Report Number: PJI0314 | Sampled: 09/20/00<br>Received: 09/20/00<br>Issued: 10/10/00 |

# CASE NARRATIVE

| LABORATORY NUMBER | SAMPLE DESCRIPTION | SAMPLE MATRIX |
|---|---|---|
| PJI0314-01 | MW-3S | Water |
| PJI0314-02 | MW-7D | Water |
| PJI0314-03 | MW-2D | Water |
| PJI0314-04 | MW-10D | Water |
| PJI0314-05 | Trip Blank | Water |

SAMPLE RECEIPT: Samples were received intact, on ice, and with chain of custody documentation.

HOLDING TIMES: Holding times were met.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: One or more method QC parameter exceeded acceptance limits. See Corrective Action Report.

OBSERVATIONS: Because no limits have been established for a full spike list for the MS/MSD or LCS/LCSD within the last year, acceptance limits for compounds without specific acceptance limits in the QAPP have been taken from control charts generated November of 1998.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

**DEL MAR ANALYTICAL , PHOENIX (AZ0426)**

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2/S.Mesa WQARF Study
Report Number: PJI0314

Sampled: 09/20/00
Received: 09/20/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJI0314-01 (MW-3S - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P0I2906 | 20 | ND | 1 | 9/29/00 | 9/29/00 | |
| Benzene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Bromobenzene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Bromochloromethane | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Bromodichloromethane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Bromoform | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Bromomethane | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 2-Butanone (MEK) | EPA 8260B | P0I2906 | 10 | ND | 1 | 9/29/00 | 9/29/00 | |
| n-Butylbenzene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| sec-Butylbenzene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| tert-Butylbenzene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Carbon Disulfide | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | L |
| Carbon tetrachloride | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Chlorobenzene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Chloroethane | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Chloroform | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Chloromethane | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 2-Chlorotoluene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 4-Chlorotoluene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Dibromochloromethane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Dibromomethane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,2-Dichlorobenzene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,3-Dichlorobenzene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,4-Dichlorobenzene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Dichlorodifluoromethane | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,1-Dichloroethane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,2-Dichloroethane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,1-Dichloroethene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| cis-1,2-Dichloroethene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| trans-1,2-Dichloroethene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,2-Dichloropropane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,3-Dichloropropane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 2,2-Dichloropropane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,1-Dichloropropene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| cis-1,3-Dichloropropene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| trans-1,3-Dichloropropene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Ethylbenzene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Hexachlorobutadiene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 2-Hexanone | EPA 8260B | P0I2906 | 10 | ND | 1 | 9/29/00 | 9/29/00 | |
| Iodomethane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Isopropylbenzene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| p-Isopropyltoluene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2/S.Mesa WQARF Study
Report Number: PJI0314

Sampled: 09/20/00
Received: 09/20/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJI0314-01 (MW-3S - Water)** | | | | | | | | |
| Methylene chloride | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 4-Methyl-2-pentatnone (MIBK) | EPA 8260B | P0I2906 | 10 | ND | 1 | 9/29/00 | 9/29/00 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Naphthalene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| n-Propylbenzene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Styrene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Tetrachloroethene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Toluene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,1,1-Trichloroethane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,1,2-Trichloroethane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Trichloroethene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Trichlorofluoromethane | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,2,3-Trichloropropane | EPA 8260B | P0I2906 | 10 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Vinyl acetate | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Vinyl chloride | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Xylenes, Total | EPA 8260B | P0I2906 | 10 | ND | 1 | 9/29/00 | 9/29/00 | |
| *Surrogate: Dibromofluoromethane (70-160%)* | | | | *94.0 %* | | | | |
| *Surrogate: Toluene-d8 (75-140%)* | | | | *88.8 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (75-135%)* | | | | *96.0 %* | | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2/S.Mesa WQARF Study
Report Number: PJI0314

Sampled: 09/20/00
Received: 09/20/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJI0314-02 (MW-7D - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P0I2906 | 20 | ND | 1 | 9/29/00 | 9/29/00 | |
| Benzene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Bromobenzene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Bromochloromethane | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Bromodichloromethane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Bromoform | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Bromomethane | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 2-Butanone (MEK) | EPA 8260B | P0I2906 | 10 | ND | 1 | 9/29/00 | 9/29/00 | |
| n-Butylbenzene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| sec-Butylbenzene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| tert-Butylbenzene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Carbon Disulfide | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | L |
| Carbon tetrachloride | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Chlorobenzene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Chloroethane | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Chloroform | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Chloromethane | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 2-Chlorotoluene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 4-Chlorotoluene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Dibromochloromethane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Dibromomethane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,2-Dichlorobenzene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,3-Dichlorobenzene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,4-Dichlorobenzene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Dichlorodifluoromethane | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,1-Dichloroethane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,2-Dichloroethane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,1-Dichloroethene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| cis-1,2-Dichloroethene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| trans-1,2-Dichloroethene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,2-Dichloropropane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,3-Dichloropropane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 2,2-Dichloropropane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,1-Dichloropropene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| cis-1,3-Dichloropropene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| trans-1,3-Dichloropropene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Ethylbenzene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Hexachlorobutadiene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 2-Hexanone | EPA 8260B | P0I2906 | 10 | ND | 1 | 9/29/00 | 9/29/00 | |
| Iodomethane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Isopropylbenzene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| p-Isopropyltoluene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2/S.Mesa WQARF Study
Report Number: PJI0314

Sampled: 09/20/00
Received: 09/20/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJI0314-02 (MW-7D - Water)** | | | | | | | | |
| Methylene chloride | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 4-Methyl-2-pentatnone (MIBK) | EPA 8260B | P0I2906 | 10 | ND | 1 | 9/29/00 | 9/29/00 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Naphthalene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| n-Propylbenzene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Styrene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| **Tetrachloroethene** | EPA 8260B | P0I2906 | 2.0 | **29** | 1 | 9/29/00 | 9/29/00 | |
| Toluene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,1,1-Trichloroethane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,1,2-Trichloroethane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Trichloroethene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Trichlorofluoromethane | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,2,3-Trichloropropane | EPA 8260B | P0I2906 | 10 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Vinyl acetate | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Vinyl chloride | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Xylenes, Total | EPA 8260B | P0I2906 | 10 | ND | 1 | 9/29/00 | 9/29/00 | |
| *Surrogate: Dibromofluoromethane (70-160%)* | | | | *93.2 %* | | | | |
| *Surrogate: Toluene-d8 (75-140%)* | | | | *89.6 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (75-135%)* | | | | *94.8 %* | | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2/S.Mesa WQARF Study
Report Number: PJI0314

Sampled: 09/20/00
Received: 09/20/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJI0314-03 (MW-2D - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P0I2906 | 20 | ND | 1 | 9/29/00 | 9/29/00 | |
| Benzene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Bromobenzene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Bromochloromethane | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Bromodichloromethane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Bromoform | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Bromomethane | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 2-Butanone (MEK) | EPA 8260B | P0I2906 | 10 | ND | 1 | 9/29/00 | 9/29/00 | |
| n-Butylbenzene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| sec-Butylbenzene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| tert-Butylbenzene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Carbon Disulfide | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | L |
| Carbon tetrachloride | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Chlorobenzene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Chloroethane | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Chloroform | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Chloromethane | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 2-Chlorotoluene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 4-Chlorotoluene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Dibromochloromethane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Dibromomethane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,2-Dichlorobenzene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,3-Dichlorobenzene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,4-Dichlorobenzene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Dichlorodifluoromethane | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,1-Dichloroethane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,2-Dichloroethane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,1-Dichloroethene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| cis-1,2-Dichloroethene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| trans-1,2-Dichloroethene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,2-Dichloropropane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,3-Dichloropropane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 2,2-Dichloropropane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,1-Dichloropropene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| cis-1,3-Dichloropropene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| trans-1,3-Dichloropropene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Ethylbenzene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Hexachlorobutadiene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 2-Hexanone | EPA 8260B | P0I2906 | 10 | ND | 1 | 9/29/00 | 9/29/00 | |
| Iodomethane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Isopropylbenzene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| p-Isopropyltoluene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |

Julie M. Slocum
Project Manager



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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2/S.Mesa WQARF Study
Report Number: PJI0314

Sampled: 09/20/00
Received: 09/20/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJI0314-03 (MW-2D - Water)** | | | | | | | | |
| Methylene chloride | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 4-Methyl-2-pentatnone (MIBK) | EPA 8260B | P0I2906 | 10 | ND | 1 | 9/29/00 | 9/29/00 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Naphthalene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| n-Propylbenzene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Styrene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Tetrachloroethene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Toluene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,1,1-Trichloroethane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,1,2-Trichloroethane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Trichloroethene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Trichlorofluoromethane | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,2,3-Trichloropropane | EPA 8260B | P0I2906 | 10 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Vinyl acetate | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Vinyl chloride | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Xylenes, Total | EPA 8260B | P0I2906 | 10 | ND | 1 | 9/29/00 | 9/29/00 | |
| *Surrogate: Dibromofluoromethane (70-160%)* | | | | *98.8 %* | | | | |
| *Surrogate: Toluene-d8 (75-140%)* | | | | *87.6 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (75-135%)* | | | | *96.0 %* | | | | |

Julie M. Slocum
Project Manager



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Law Engineering
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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2/S.Mesa WQARF Study
Report Number: PJI0314

Sampled: 09/20/00
Received: 09/20/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJI0314-04 (MW-10D - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P0I2906 | 20 | ND | 1 | 9/29/00 | 9/29/00 | |
| Benzene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Bromobenzene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Bromochloromethane | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Bromodichloromethane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Bromoform | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Bromomethane | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 2-Butanone (MEK) | EPA 8260B | P0I2906 | 10 | ND | 1 | 9/29/00 | 9/29/00 | |
| n-Butylbenzene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| sec-Butylbenzene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| tert-Butylbenzene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Carbon Disulfide | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | L |
| Carbon tetrachloride | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Chlorobenzene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Chloroethane | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Chloroform | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Chloromethane | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 2-Chlorotoluene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 4-Chlorotoluene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Dibromochloromethane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Dibromomethane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,2-Dichlorobenzene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,3-Dichlorobenzene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,4-Dichlorobenzene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Dichlorodifluoromethane | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,1-Dichloroethane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,2-Dichloroethane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,1-Dichloroethene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| cis-1,2-Dichloroethene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| trans-1,2-Dichloroethene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,2-Dichloropropane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,3-Dichloropropane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 2,2-Dichloropropane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,1-Dichloropropene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| cis-1,3-Dichloropropene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| trans-1,3-Dichloropropene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Ethylbenzene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Hexachlorobutadiene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 2-Hexanone | EPA 8260B | P0I2906 | 10 | ND | 1 | 9/29/00 | 9/29/00 | |
| Iodomethane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Isopropylbenzene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| p-Isopropyltoluene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2/S.Mesa WQARF Study
Report Number: PJI0314

Sampled: 09/20/00
Received: 09/20/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJI0314-04 (MW-10D - Water)** | | | | | | | | |
| Methylene chloride | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 4-Methyl-2-pentatnone (MIBK) | EPA 8260B | P0I2906 | 10 | ND | 1 | 9/29/00 | 9/29/00 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Naphthalene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| n-Propylbenzene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Styrene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| **Tetrachloroethene** | EPA 8260B | P0I2906 | 2.0 | **29** | 1 | 9/29/00 | 9/29/00 | |
| Toluene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,1,1-Trichloroethane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,1,2-Trichloroethane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Trichloroethene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Trichlorofluoromethane | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,2,3-Trichloropropane | EPA 8260B | P0I2906 | 10 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Vinyl acetate | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Vinyl chloride | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Xylenes, Total | EPA 8260B | P0I2906 | 10 | ND | 1 | 9/29/00 | 9/29/00 | |
| *Surrogate: Dibromofluoromethane (70-160%)* | | | | *95.6 %* | | | | |
| *Surrogate: Toluene-d8 (75-140%)* | | | | *88.0 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (75-135%)* | | | | *96.0 %* | | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2/S.Mesa WQARF Study
Report Number: PJI0314

Sampled: 09/20/00
Received: 09/20/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJI0314-05 (Trip Blank - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P0I2906 | 20 | ND | 1 | 9/29/00 | 9/29/00 | |
| Benzene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Bromobenzene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Bromochloromethane | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Bromodichloromethane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Bromoform | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Bromomethane | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 2-Butanone (MEK) | EPA 8260B | P0I2906 | 10 | ND | 1 | 9/29/00 | 9/29/00 | |
| n-Butylbenzene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| sec-Butylbenzene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| tert-Butylbenzene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Carbon Disulfide | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | L |
| Carbon tetrachloride | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Chlorobenzene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Chloroethane | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Chloroform | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Chloromethane | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 2-Chlorotoluene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 4-Chlorotoluene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Dibromochloromethane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Dibromomethane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,2-Dichlorobenzene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,3-Dichlorobenzene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,4-Dichlorobenzene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Dichlorodifluoromethane | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,1-Dichloroethane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,2-Dichloroethane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,1-Dichloroethene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| cis-1,2-Dichloroethene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| trans-1,2-Dichloroethene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,2-Dichloropropane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,3-Dichloropropane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 2,2-Dichloropropane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,1-Dichloropropene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| cis-1,3-Dichloropropene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| trans-1,3-Dichloropropene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Ethylbenzene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Hexachlorobutadiene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 2-Hexanone | EPA 8260B | P0I2906 | 10 | ND | 1 | 9/29/00 | 9/29/00 | |
| Iodomethane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Isopropylbenzene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| p-Isopropyltoluene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |

Julie M. Slocum
Project Manager



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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2/S.Mesa WQARF Study
Report Number: PJI0314

Sampled: 09/20/00
Received: 09/20/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJI0314-05 (Trip Blank - Water)** | | | | | | | | |
| Methylene chloride | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 4-Methyl-2-pentatnone (MIBK) | EPA 8260B | P0I2906 | 10 | ND | 1 | 9/29/00 | 9/29/00 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Naphthalene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| n-Propylbenzene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Styrene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Tetrachloroethene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Toluene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,1,1-Trichloroethane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,1,2-Trichloroethane | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Trichloroethene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Trichlorofluoromethane | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,2,3-Trichloropropane | EPA 8260B | P0I2906 | 10 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P0I2906 | 2.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Vinyl acetate | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Vinyl chloride | EPA 8260B | P0I2906 | 5.0 | ND | 1 | 9/29/00 | 9/29/00 | |
| Xylenes, Total | EPA 8260B | P0I2906 | 10 | ND | 1 | 9/29/00 | 9/29/00 | |
| *Surrogate: Dibromofluoromethane (70-160%)* | | | | *95.2 %* | | | | |
| *Surrogate: Toluene-d8 (75-140%)* | | | | *90.0 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (75-135%)* | | | | *95.2 %* | | | | |

**DEL MAR ANALYTICAL, PHOENIX (AZ0426)**

Julie M. Slocum
Project Manager



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Law Engineering
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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2/S.Mesa WQARF Study
Report Number: PJI0314

Sampled: 09/20/00
Received: 09/20/00

## TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJI0314-01 (MW-3S - Water)** | | | | | | | | |
| Aluminum | EPA 200.7 | P0I2028 | 0.50 | ND | 1 | 9/20/00 | 9/21/00 | |
| Antimony | EPA 200.9 | P0I2203 | 0.0040 | ND | 1 | 9/22/00 | 10/5/00 | |
| **Arsenic** | EPA 200.9 | P0I2203 | 0.0030 | **0.0033** | 1 | 9/22/00 | 10/3/00 | |
| **Barium** | EPA 200.7 | P0I2028 | 0.010 | **0.10** | 1 | 9/20/00 | 9/21/00 | |
| Beryllium | EPA 200.9 | P0I2203 | 0.00050 | ND | 1 | 9/22/00 | 10/4/00 | |
| Cadmium | EPA 200.9 | P0I2203 | 0.00050 | ND | 1 | 9/22/00 | 10/5/00 | |
| **Calcium** | EPA 200.7 | P0I2028 | 2.0 | **130** | 1 | 9/20/00 | 9/21/00 | |
| **Chromium** | EPA 200.9 | P0I2203 | 0.0040 | **0.031** | 1 | 9/22/00 | 10/6/00 | |
| Cobalt | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| Copper | EPA 200.7 | P0I2028 | 0.020 | ND | 1 | 9/20/00 | 9/21/00 | |
| **Iron** | EPA 200.7 | P0I2028 | 0.10 | **0.19** | 1 | 9/20/00 | 9/21/00 | |
| Lead | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| **Magnesium** | EPA 200.7 | P0I2028 | 0.50 | **45** | 1 | 9/20/00 | 9/21/00 | |
| Manganese | EPA 200.7 | P0I2028 | 0.020 | ND | 1 | 9/20/00 | 9/21/00 | |
| Nickel | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| Selenium | EPA 200.9 | P0I2203 | 0.0040 | ND | 1 | 9/22/00 | 10/4/00 | |
| Silver | EPA 200.7 | P0I2028 | 0.0050 | ND | 1 | 9/20/00 | 9/21/00 | |
| **Sodium** | EPA 273.1 | P0I2028 | 5.0 | **310** | 1 | 9/20/00 | 9/22/00 | |
| **Strontium** | EPA 200.7 | P0I2028 | 1.0 | **1.1** | 10 | 9/20/00 | 9/28/00 | |
| Vanadium | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| Zinc | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| **Sample ID: PJI0314-02 (MW-7D - Water)** | | | | | | | | |
| Aluminum | EPA 200.7 | P0I2028 | 0.50 | ND | 1 | 9/20/00 | 9/21/00 | |
| Antimony | EPA 200.9 | P0I2027 | 0.0040 | ND | 1 | 9/20/00 | 9/28/00 | |
| Arsenic | EPA 200.9 | P0I2027 | 0.0030 | ND | 1 | 9/20/00 | 10/3/00 | |
| **Barium** | EPA 200.7 | P0I2028 | 0.010 | **0.13** | 1 | 9/20/00 | 9/21/00 | |
| Beryllium | EPA 200.9 | P0I2027 | 0.00050 | ND | 1 | 9/20/00 | 10/4/00 | |
| Cadmium | EPA 200.9 | P0I2027 | 0.00050 | ND | 1 | 9/20/00 | 9/28/00 | |
| **Calcium** | EPA 200.7 | P0I2028 | 2.0 | **190** | 1 | 9/20/00 | 9/21/00 | |
| **Chromium** | EPA 200.9 | P0I2027 | 0.0040 | **0.013** | 1 | 9/20/00 | 10/3/00 | |
| Cobalt | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| Copper | EPA 200.7 | P0I2028 | 0.020 | ND | 1 | 9/20/00 | 9/21/00 | |
| **Iron** | EPA 200.7 | P0I2028 | 0.10 | **0.40** | 1 | 9/20/00 | 9/21/00 | |
| Lead | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| **Magnesium** | EPA 200.7 | P0I2028 | 0.50 | **65** | 1 | 9/20/00 | 9/21/00 | |
| **Manganese** | EPA 200.7 | P0I2028 | 0.020 | **0.021** | 1 | 9/20/00 | 9/25/00 | |
| Nickel | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| Selenium | EPA 200.9 | P0I2027 | 0.0040 | ND | 1 | 9/20/00 | 10/2/00 | |
| Silver | EPA 200.7 | P0I2028 | 0.0050 | ND | 1 | 9/20/00 | 9/21/00 | |
| **Sodium** | EPA 273.1 | P0I2028 | 5.0 | **360** | 1 | 9/20/00 | 9/22/00 | |
| **Strontium** | EPA 200.7 | P0I2028 | 1.0 | **1.6** | 10 | 9/20/00 | 9/28/00 | |
| Vanadium | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| Zinc | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2/S.Mesa WQARF Study
Report Number: PJI0314

Sampled: 09/20/00
Received: 09/20/00

## TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJI0314-03 (MW-2D - Water)** | | | | | | | | |
| Aluminum | EPA 200.7 | P0I2028 | 0.50 | ND | 1 | 9/20/00 | 9/21/00 | |
| Antimony | EPA 200.9 | P0I2203 | 0.020 | ND | 5 | 9/22/00 | 10/5/00 | |
| **Arsenic** | EPA 200.9 | P0I2203 | 0.0030 | **0.0035** | 1 | 9/22/00 | 10/3/00 | |
| **Barium** | EPA 200.7 | P0I2028 | 0.010 | **0.13** | 1 | 9/20/00 | 9/21/00 | |
| Beryllium | EPA 200.9 | P0I2203 | 0.00050 | ND | 1 | 9/22/00 | 10/4/00 | |
| Cadmium | EPA 200.9 | P0I2203 | 0.00050 | ND | 1 | 9/22/00 | 10/5/00 | |
| **Calcium** | EPA 200.7 | P0I2028 | 2.0 | **150** | 1 | 9/20/00 | 9/21/00 | |
| **Chromium** | EPA 200.9 | P0I2203 | 0.020 | **0.10** | 5 | 9/22/00 | 10/6/00 | |
| Cobalt | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| Copper | EPA 200.7 | P0I2028 | 0.020 | ND | 1 | 9/20/00 | 9/21/00 | |
| **Iron** | EPA 200.7 | P0I2028 | 0.10 | **0.68** | 1 | 9/20/00 | 9/21/00 | |
| Lead | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| **Magnesium** | EPA 200.7 | P0I2028 | 0.50 | **50** | 1 | 9/20/00 | 9/21/00 | |
| Manganese | EPA 200.7 | P0I2028 | 0.020 | ND | 1 | 9/20/00 | 9/21/00 | |
| Nickel | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| Selenium | EPA 200.9 | P0I2203 | 0.0040 | ND | 1 | 9/22/00 | 10/4/00 | |
| Silver | EPA 200.7 | P0I2028 | 0.0050 | ND | 1 | 9/20/00 | 9/21/00 | |
| **Sodium** | EPA 273.1 | P0I2028 | 5.0 | **330** | 1 | 9/20/00 | 9/22/00 | |
| **Strontium** | EPA 200.7 | P0I2028 | 1.0 | **1.3** | 10 | 9/20/00 | 9/28/00 | |
| Vanadium | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| Zinc | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/21/00 | |
| **Sample ID: PJI0314-04 (MW-10D - Water)** | | | | | | | | |
| Aluminum | EPA 200.7 | P0I2028 | 0.50 | ND | 1 | 9/20/00 | 9/22/00 | |
| Antimony | EPA 200.9 | P0I2027 | 0.0040 | ND | 1 | 9/20/00 | 9/28/00 | |
| Arsenic | EPA 200.9 | P0I2027 | 0.0030 | ND | 1 | 9/20/00 | 10/3/00 | |
| **Barium** | EPA 200.7 | P0I2028 | 0.010 | **0.13** | 1 | 9/20/00 | 9/22/00 | |
| Beryllium | EPA 200.9 | P0I2027 | 0.00050 | ND | 1 | 9/20/00 | 10/4/00 | |
| Cadmium | EPA 200.9 | P0I2027 | 0.00050 | ND | 1 | 9/20/00 | 9/28/00 | |
| **Calcium** | EPA 200.7 | P0I2028 | 2.0 | **190** | 1 | 9/20/00 | 9/22/00 | |
| **Chromium** | EPA 200.9 | P0I2027 | 0.0040 | **0.013** | 1 | 9/20/00 | 10/3/00 | |
| Cobalt | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/22/00 | |
| Copper | EPA 200.7 | P0I2028 | 0.020 | ND | 1 | 9/20/00 | 9/22/00 | |
| **Iron** | EPA 200.7 | P0I2028 | 0.10 | **0.33** | 1 | 9/20/00 | 9/22/00 | |
| Lead | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/22/00 | |
| **Magnesium** | EPA 200.7 | P0I2028 | 0.50 | **66** | 1 | 9/20/00 | 9/22/00 | |
| Manganese | EPA 200.7 | P0I2028 | 0.020 | ND | 1 | 9/20/00 | 9/25/00 | |
| Nickel | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/22/00 | |
| Selenium | EPA 200.9 | P0I2027 | 0.0040 | ND | 1 | 9/20/00 | 10/2/00 | |
| Silver | EPA 200.7 | P0I2028 | 0.0050 | ND | I | 9/20/00 | 9/22/00 | |
| **Sodium** | EPA 273.1 | P0I2028 | 5.0 | **360** | 1 | 9/20/00 | 9/22/00 | |
| **Strontium** | EPA 200.7 | P0I2028 | 1.0 | **1.7** | 10 | 9/20/00 | 9/28/00 | |
| Vanadium | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/22/00 | |
| Zinc | EPA 200.7 | P0I2028 | 0.050 | ND | 1 | 9/20/00 | 9/22/00 | |

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Julie M. Slocum
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4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2/S.Mesa WQARF Study
Report Number: PJI0314

Sampled: 09/20/00
Received: 09/20/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0I2906 Extracted: 09/29/00** | | | | | | | | | | |
| **Blank Analyzed: 09/29/00 (P0I2906-BLK1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | |
| Benzene | ND | 2.0 | ug/l | | | | | | | |
| Bromobenzene | ND | 5.0 | ug/l | | | | | | | |
| Bromochloromethane | ND | 5.0 | ug/l | | | | | | | |
| Bromodichloromethane | ND | 2.0 | ug/l | | | | | | | |
| Bromoform | ND | 5.0 | ug/l | | | | | | | |
| Bromomethane | ND | 5.0 | ug/l | | | | | | | |
| 2-Butanone (MEK) | ND | 10 | ug/l | | | | | | | |
| n-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| sec-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| tert-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| Carbon Disulfide | ND | 5.0 | ug/l | | | | | | | L |
| Carbon tetrachloride | ND | 5.0 | ug/l | | | | | | | |
| Chlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| Chloroethane | ND | 5.0 | ug/l | | | | | | | |
| Chloroform | ND | 2.0 | ug/l | | | | | | | |
| Chloromethane | ND | 5.0 | ug/l | | | | | | | |
| 2-Chlorotoluene | ND | 5.0 | ug/l | | | | | | | |
| 4-Chlorotoluene | ND | 5.0 | ug/l | | | | | | | |
| Dibromochloromethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/l | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 2.0 | ug/l | | | | | | | |
| Dibromomethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| Dichlorodifluoromethane | ND | 5.0 | ug/l | | | | | | | |
| 1,1-Dichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,1-Dichloroethene | ND | 5.0 | ug/l | | | | | | | |

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Client Project ID: 70211-0-0150-2-2-2/S.Mesa WQARF Study
Report Number: PJI0314

Sampled: 09/20/00
Received: 09/20/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0I2906 Extracted: 09/29/00** | | | | | | | | | | |
| **Blank Analyzed: 09/29/00 (P0I2906-BLK1)** | | | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 2.0 | ug/l | | | | | | | |
| trans-1,2-Dichloroethene | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,3-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 2,2-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,1-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| cis-1,3-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| Ethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 5.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 10 | ug/l | | | | | | | |
| Iodomethane | ND | 2.0 | ug/l | | | | | | | |
| Isopropylbenzene | ND | 2.0 | ug/l | | | | | | | |
| p-Isopropyltoluene | ND | 2.0 | ug/l | | | | | | | |
| Methylene chloride | ND | 5.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentatnone (MIBK) | ND | 10 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 5.0 | ug/l | | | | | | | |
| Naphthalene | ND | 5.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Styrene | ND | 2.0 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/l | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 2.0 | ug/l | | | | | | | |
| Toluene | ND | 2.0 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 5.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,1,2-Trichloroethane | ND | 2.0 | ug/l | | | | | | | |
| Trichloroethene | ND | 2.0 | ug/l | | | | | | | |
| Trichlorofluoromethane | ND | 5.0 | ug/l | | | | | | | |

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Report Number: PJI0314

Sampled: 09/20/00
Received: 09/20/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0I2906 Extracted: 09/29/00** | | | | | | | | | | |
| **Blank Analyzed: 09/29/00 (P0I2906-BLK1)** | | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 10 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Vinyl acetate | ND | 5.0 | ug/l | | | | | | | |
| Vinyl chloride | ND | 5.0 | ug/l | | | | | | | |
| Xylenes, Total | ND | 10 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *23.8* | | *ug/l* | *25.0* | | *95.2* | *70-160* | | | |
| *Surrogate: Toluene-d8* | *21.5* | | *ug/l* | *25.0* | | *86.0* | *75-140* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *24.3* | | *ug/l* | *25.0* | | *97.2* | *75-135* | | | |
| **LCS Analyzed: 09/29/00 (P0I2906-BS1)** | | | | | | | | | | |
| **Acetone** | **24.2** | 20 | ug/l | 25.0 | | 96.8 | 35-150 | | | |
| **Benzene** | **23.6** | 2.0 | ug/l | 25.0 | | 94.4 | 75-120 | | | |
| **Bromobenzene** | **23.9** | 5.0 | ug/l | 25.0 | | 95.6 | 65-150 | | | |
| **Bromochloromethane** | **25.2** | 5.0 | ug/l | 25.0 | | 101 | 60-155 | | | |
| **Bromodichloromethane** | **25.9** | 2.0 | ug/l | 25.0 | | 104 | 60-155 | | | |
| **Bromoform** | **24.6** | 5.0 | ug/l | 25.0 | | 98.4 | 25-160 | | | |
| **Bromomethane** | **33.2** | 5.0 | ug/l | 25.0 | | 133 | 55-170 | | | |
| **2-Butanone (MEK)** | **21.9** | 10 | ug/l | 25.0 | | 87.6 | 35-165 | | | |
| **n-Butylbenzene** | **23.7** | 5.0 | ug/l | 25.0 | | 94.8 | 65-140 | | | |
| **sec-Butylbenzene** | **23.5** | 5.0 | ug/l | 25.0 | | 94.0 | 60-145 | | | |
| **tert-Butylbenzene** | **24.1** | 5.0 | ug/l | 25.0 | | 96.4 | 65-145 | | | |
| **Carbon Disulfide** | **43.3** | 5.0 | ug/l | 25.0 | | 173 | 65-155 | | | L |
| **Carbon tetrachloride** | **26.0** | 5.0 | ug/l | 25.0 | | 104 | 65-150 | | | |
| **Chlorobenzene** | **23.6** | 2.0 | ug/l | 25.0 | | 94.4 | 75-130 | | | |
| **Chloroethane** | **23.9** | 5.0 | ug/l | 25.0 | | 95.6 | 65-165 | | | |
| **Chloroform** | **25.2** | 2.0 | ug/l | 25.0 | | 101 | 70-130 | | | |
| **Chloromethane** | **19.2** | 5.0 | ug/l | 25.0 | | 76.8 | 60-165 | | | |
| **2-Chlorotoluene** | **24.1** | 5.0 | ug/l | 25.0 | | 96.4 | 65-145 | | | |
| **4-Chlorotoluene** | **24.6** | 5.0 | ug/l | 25.0 | | 98.4 | 70-145 | | | |
| **Dibromochloromethane** | **25.7** | 2.0 | ug/l | 25.0 | | 103 | 55-155 | | | |

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Report Number: PJI0314

Sampled: 09/20/00
Received: 09/20/00

## METHOD BLANK QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0I2906 Extracted: 09/29/00** | | | | | | | | | | |
| **LCS Analyzed: 09/29/00 (P0I2906-BS1)** | | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | 22.3 | 5.0 | ug/l | 25.0 | | 89.2 | 40-150 | | | |
| 1,2-Dibromoethane (EDB) | 24.0 | 2.0 | ug/l | 25.0 | | 96.0 | 55-155 | | | |
| Dibromomethane | 24.9 | 2.0 | ug/l | 25.0 | | 99.6 | 60-155 | | | |
| 1,2-Dichlorobenzene | 24.1 | 2.0 | ug/l | 25.0 | | 96.4 | 65-140 | | | |
| 1,3-Dichlorobenzene | 23.7 | 2.0 | ug/l | 25.0 | | 94.8 | 65-145 | | | |
| 1,4-Dichlorobenzene | 24.1 | 2.0 | ug/l | 25.0 | | 96.4 | 65-140 | | | |
| Dichlorodifluoromethane | 26.0 | 5.0 | ug/l | 25.0 | | 104 | 30-190 | | | |
| 1,1-Dichloroethane | 23.6 | 2.0 | ug/l | 25.0 | | 94.4 | 70-130 | | | |
| 1,2-Dichloroethane | 27.0 | 2.0 | ug/l | 25.0 | | 108 | 70-130 | | | |
| 1,1-Dichloroethene | 23.6 | 5.0 | ug/l | 25.0 | | 94.4 | 75-125 | | | |
| cis-1,2-Dichloroethene | 24.1 | 2.0 | ug/l | 25.0 | | 96.4 | 70-130 | | | |
| trans-1,2-Dichloroethene | 23.2 | 2.0 | ug/l | 25.0 | | 92.8 | 55-175 | | | |
| 1,2-Dichloropropane | 24.8 | 2.0 | ug/l | 25.0 | | 99.2 | 70-130 | | | |
| 1,3-Dichloropropane | 23.8 | 2.0 | ug/l | 25.0 | | 95.2 | 60-150 | | | |
| 2,2-Dichloropropane | 27.3 | 2.0 | ug/l | 25.0 | | 109 | 15-200 | | | |
| 1,1-Dichloropropene | 24.1 | 2.0 | ug/l | 25.0 | | 96.4 | 65-150 | | | |
| cis-1,3-Dichloropropene | 24.0 | 2.0 | ug/l | 25.0 | | 96.0 | 65-150 | | | |
| trans-1,3-Dichloropropene | 23.8 | 2.0 | ug/l | 25.0 | | 95.2 | 60-150 | | | |
| Ethylbenzene | 22.9 | 2.0 | ug/l | 25.0 | | 91.6 | 60-150 | | | |
| Hexachlorobutadiene | 26.1 | 5.0 | ug/l | 25.0 | | 104 | 55-150 | | | |
| 2-Hexanone | 20.8 | 10 | ug/l | 25.0 | | 83.2 | 35-165 | | | |
| Iodomethane | 35.3 | 2.0 | ug/l | 25.0 | | 141 | 65-160 | | | |
| Isopropylbenzene | 24.0 | 2.0 | ug/l | 25.0 | | 96.0 | 65-145 | | | |
| p-Isopropyltoluene | 23.2 | 2.0 | ug/l | 25.0 | | 92.8 | 60-145 | | | |
| Methylene chloride | 23.2 | 5.0 | ug/l | 25.0 | | 92.8 | 65-160 | | | |
| 4-Methyl-2-pentatnone (MIBK) | 21.0 | 10 | ug/l | 25.0 | | 84.0 | 40-165 | | | |
| Methyl-tert-butyl Ether (MTBE) | 22.6 | 5.0 | ug/l | 25.0 | | 90.4 | 60-160 | | | |
| Naphthalene | 22.5 | 5.0 | ug/l | 25.0 | | 90.0 | 50-150 | | | |
| n-Propylbenzene | 24.5 | 2.0 | ug/l | 25.0 | | 98.0 | 70-145 | | | |
| Styrene | 24.1 | 2.0 | ug/l | 25.0 | | 96.4 | 65-150 | | | |

Julie M. Slocum
Project Manager



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4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2/S.Mesa WQARF Study
Report Number: PJI0314

Sampled: 09/20/00
Received: 09/20/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0I2906 Extracted: 09/29/00** | | | | | | | | | | |
| **LCS Analyzed: 09/29/00 (P0I2906-BS1)** | | | | | | | | | | |
| **1,1,1,2-Tetrachloroethane** | **25.3** | 5.0 | ug/l | 25.0 | | 101 | 60-155 | | | |
| **1,1,2,2-Tetrachloroethane** | **23.1** | 2.0 | ug/l | 25.0 | | 92.4 | 65-150 | | | |
| **Tetrachloroethene** | **24.4** | 2.0 | ug/l | 25.0 | | 97.6 | 70-130 | | | |
| **Toluene** | **23.3** | 2.0 | ug/l | 25.0 | | 93.2 | 70-125 | | | |
| **1,2,3-Trichlorobenzene** | **23.8** | 5.0 | ug/l | 25.0 | | 95.2 | 55-150 | | | |
| **1,2,4-Trichlorobenzene** | **24.1** | 5.0 | ug/l | 25.0 | | 96.4 | 60-145 | | | |
| **1,1,1-Trichloroethane** | **24.8** | 2.0 | ug/l | 25.0 | | 99.2 | 70-130 | | | |
| **1,1,2-Trichloroethane** | **23.8** | 2.0 | ug/l | 25.0 | | 95.2 | 70-130 | | | |
| **Trichloroethene** | **24.3** | 2.0 | ug/l | 25.0 | | 97.2 | 75-120 | | | |
| **Trichlorofluoromethane** | **26.0** | 5.0 | ug/l | 25.0 | | 104 | 10-200 | | | |
| **1,2,3-Trichloropropane** | **23.9** | 10 | ug/l | 25.0 | | 95.6 | 55-150 | | | |
| **1,2,4-Trimethylbenzene** | **24.0** | 2.0 | ug/l | 25.0 | | 96.0 | 65-150 | | | |
| **1,3,5-Trimethylbenzene** | **23.7** | 2.0 | ug/l | 25.0 | | 94.8 | 65-150 | | | |
| **Vinyl acetate** | **26.6** | 5.0 | ug/l | 25.0 | | 106 | 50-160 | | | |
| **Vinyl chloride** | **20.9** | 5.0 | ug/l | 25.0 | | 83.6 | 25-200 | | | |
| **Xylenes, Total** | **71.3** | 10 | ug/l | 75.0 | | 95.1 | 65-145 | | | |
| *Surrogate: Dibromofluoromethane* | *24.4* | | *ug/l* | *25.0* | | *97.6* | *70-160* | | | |
| *Surrogate: Toluene-d8* | *23.1* | | *ug/l* | *25.0* | | *92.4* | *75-140* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *23.6* | | *ug/l* | *25.0* | | *94.4* | *75-135* | | | |
| **LCS Dup Analyzed: 09/29/00 (P0I2906-BSD1)** | | | | | | | | | | |
| **Acetone** | **24.0** | 20 | ug/l | 25.0 | | 96.0 | 35-150 | 0.830 | 20 | |
| **Benzene** | **24.5** | 2.0 | ug/l | 25.0 | | 98.0 | 75-120 | 3.74 | 20 | |
| **Bromobenzene** | **25.2** | 5.0 | ug/l | 25.0 | | 101 | 65-150 | 5.30 | 20 | |
| **Bromochloromethane** | **25.3** | 5.0 | ug/l | 25.0 | | 101 | 60-155 | 0.396 | 20 | |
| **Bromodichloromethane** | **26.7** | 2.0 | ug/l | 25.0 | | 107 | 60-155 | 3.04 | 20 | |
| **Bromoform** | **25.7** | 5.0 | ug/l | 25.0 | | 103 | 25-160 | 4.37 | 20 | |
| **Bromomethane** | **34.0** | 5.0 | ug/l | 25.0 | | 136 | 55-170 | 2.38 | 20 | |
| **2-Butanone (MEK)** | **21.7** | 10 | ug/l | 25.0 | | 86.8 | 35-165 | 0.917 | 20 | |
| **n-Butylbenzene** | **24.6** | 5.0 | ug/l | 25.0 | | 98.4 | 65-140 | 3.73 | 20 | |
| **sec-Butylbenzene** | **24.5** | 5.0 | ug/l | 25.0 | | 98.0 | 60-145 | 4.17 | 20 | |

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Client Project ID: 70211-0-0150-2-2-2/S.Mesa WQARF Study
Report Number: PJI0314

Sampled: 09/20/00
Received: 09/20/00

## METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0I2906 Extracted: 09/29/00** | | | | | | | | | | |
| **LCS Dup Analyzed: 09/29/00 (P0I2906-BSD1)** | | | | | | | | | | |
| tert-Butylbenzene | 25.6 | 5.0 | ug/l | 25.0 | | 102 | 65-145 | 6.04 | 20 | |
| Carbon Disulfide | 43.8 | 5.0 | ug/l | 25.0 | | 175 | 65-155 | 1.15 | 20 | L |
| Carbon tetrachloride | 26.8 | 5.0 | ug/l | 25.0 | | 107 | 65-150 | 3.03 | 20 | |
| Chlorobenzene | 24.3 | 2.0 | ug/l | 25.0 | | 97.2 | 75-130 | 2.92 | 20 | |
| Chloroethane | 24.1 | 5.0 | ug/l | 25.0 | | 96.4 | 65-165 | 0.833 | 20 | |
| Chloroform | 26.0 | 2.0 | ug/l | 25.0 | | 104 | 70-130 | 3.12 | 20 | |
| Chloromethane | 20.0 | 5.0 | ug/l | 25.0 | | 80.0 | 60-165 | 4.08 | 20 | |
| 2-Chlorotoluene | 25.0 | 5.0 | ug/l | 25.0 | | 100 | 65-145 | 3.67 | 20 | |
| 4-Chlorotoluene | 25.1 | 5.0 | ug/l | 25.0 | | 100 | 70-145 | 2.01 | 20 | |
| Dibromochloromethane | 25.9 | 2.0 | ug/l | 25.0 | | 104 | 55-155 | 0.775 | 20 | |
| 1,2-Dibromo-3-chloropropane | 23.2 | 5.0 | ug/l | 25.0 | | 92.8 | 40-150 | 3.96 | 20 | |
| 1,2-Dibromoethane (EDB) | 24.2 | 2.0 | ug/l | 25.0 | | 96.8 | 55-155 | 0.830 | 20 | |
| Dibromomethane | 25.5 | 2.0 | ug/l | 25.0 | | 102 | 60-155 | 2.38 | 20 | |
| 1,2-Dichlorobenzene | 25.5 | 2.0 | ug/l | 25.0 | | 102 | 65-140 | 5.65 | 20 | |
| 1,3-Dichlorobenzene | 24.9 | 2.0 | ug/l | 25.0 | | 99.6 | 65-145 | 4.94 | 20 | |
| 1,4-Dichlorobenzene | 24.9 | 2.0 | ug/l | 25.0 | | 99.6 | 65-140 | 3.27 | 20 | |
| Dichlorodifluoromethane | 26.2 | 5.0 | ug/l | 25.0 | | 105 | 30-190 | 0.766 | 20 | |
| 1,1-Dichloroethane | 23.9 | 2.0 | ug/l | 25.0 | | 95.6 | 70-130 | 1.26 | 20 | |
| 1,2-Dichloroethane | 27.3 | 2.0 | ug/l | 25.0 | | 109 | 70-130 | 1.10 | 20 | |
| 1,1-Dichloroethene | 24.2 | 5.0 | ug/l | 25.0 | | 96.8 | 75-125 | 2.51 | 20 | |
| cis-1,2-Dichloroethene | 24.6 | 2.0 | ug/l | 25.0 | | 98.4 | 70-130 | 2.05 | 20 | |
| trans-1,2-Dichloroethene | 23.9 | 2.0 | ug/l | 25.0 | | 95.6 | 55-175 | 2.97 | 20 | |
| 1,2-Dichloropropane | 25.9 | 2.0 | ug/l | 25.0 | | 104 | 70-130 | 4.34 | 20 | |
| 1,3-Dichloropropane | 24.5 | 2.0 | ug/l | 25.0 | | 98.0 | 60-150 | 2.90 | 20 | |
| 2,2-Dichloropropane | 27.5 | 2.0 | ug/l | 25.0 | | 110 | 15-200 | 0.730 | 20 | |
| 1,1-Dichloropropene | 24.3 | 2.0 | ug/l | 25.0 | | 97.2 | 65-150 | 0.826 | 20 | |
| cis-1,3-Dichloropropene | 24.9 | 2.0 | ug/l | 25.0 | | 99.6 | 65-150 | 3.68 | 20 | |
| trans-1,3-Dichloropropene | 24.0 | 2.0 | ug/l | 25.0 | | 96.0 | 60-150 | 0.837 | 20 | |
| Ethylbenzene | 23.6 | 2.0 | ug/l | 25.0 | | 94.4 | 60-150 | 3.01 | 20 | |
| Hexachlorobutadiene | 25.6 | 5.0 | ug/l | 25.0 | | 102 | 55-150 | 1.93 | 20 | |

Julie M. Slocum
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Client Project ID: 70211-0-0150-2-2-2/S.Mesa WQARF Study
Report Number: PJI0314

Sampled: 09/20/00
Received: 09/20/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0I2906 Extracted: 09/29/00** | | | | | | | | | | |
| **LCS Dup Analyzed: 09/29/00 (P0I2906-BSD1)** | | | | | | | | | | |
| **2-Hexanone** | **21.1** | 10 | ug/l | 25.0 | | 84.4 | 35-165 | 1.43 | 20 | |
| **Iodomethane** | **35.8** | 2.0 | ug/l | 25.0 | | 143 | 65-160 | 1.41 | 20 | |
| **Isopropylbenzene** | **24.6** | 2.0 | ug/l | 25.0 | | 98.4 | 65-145 | 2.47 | 20 | |
| **p-Isopropyltoluene** | **24.2** | 2.0 | ug/l | 25.0 | | 96.8 | 60-145 | 4.22 | 20 | |
| **Methylene chloride** | **23.7** | 5.0 | ug/l | 25.0 | | 94.8 | 65-160 | 2.13 | 20 | |
| **4-Methyl-2-pentatnone (MIBK)** | **21.8** | 10 | ug/l | 25.0 | | 87.2 | 40-165 | 3.74 | 20 | |
| **Methyl-tert-butyl Ether (MTBE)** | **23.1** | 5.0 | ug/l | 25.0 | | 92.4 | 60-160 | 2.19 | 20 | |
| **Naphthalene** | **23.6** | 5.0 | ug/l | 25.0 | | 94.4 | 50-150 | 4.77 | 20 | |
| **n-Propylbenzene** | **25.4** | 2.0 | ug/l | 25.0 | | 102 | 70-145 | 3.61 | 20 | |
| **Styrene** | **24.9** | 2.0 | ug/l | 25.0 | | 99.6 | 65-150 | 3.27 | 20 | |
| **1,1,1,2-Tetrachloroethane** | **25.2** | 5.0 | ug/l | 25.0 | | 101 | 60-155 | 0.396 | 20 | |
| **1,1,2,2-Tetrachloroethane** | **24.2** | 2.0 | ug/l | 25.0 | | 96.8 | 65-150 | 4.65 | 20 | |
| **Tetrachloroethene** | **24.9** | 2.0 | ug/l | 25.0 | | 99.6 | 70-130 | 2.03 | 20 | |
| **Toluene** | **24.3** | 2.0 | ug/l | 25.0 | | 97.2 | 70-125 | 4.20 | 20 | |
| **1,2,3-Trichlorobenzene** | **24.8** | 5.0 | ug/l | 25.0 | | 99.2 | 55-150 | 4.12 | 20 | |
| **1,2,4-Trichlorobenzene** | **24.7** | 5.0 | ug/l | 25.0 | | 98.8 | 60-145 | 2.46 | 20 | |
| **1,1,1-Trichloroethane** | **25.6** | 2.0 | ug/l | 25.0 | | 102 | 70-130 | 3.17 | 20 | |
| **1,1,2-Trichloroethane** | **24.4** | 2.0 | ug/l | 25.0 | | 97.6 | 70-130 | 2.49 | 20 | |
| **Trichloroethene** | **25.0** | 2.0 | ug/l | 25.0 | | 100 | 75-120 | 2.84 | 20 | |
| **Trichlorofluoromethane** | **27.2** | 5.0 | ug/l | 25.0 | | 109 | 10-200 | 4.51 | 20 | |
| **1,2,3-Trichloropropane** | **25.5** | 10 | ug/l | 25.0 | | 102 | 55-150 | 6.48 | 20 | |
| **1,2,4-Trimethylbenzene** | **25.4** | 2.0 | ug/l | 25.0 | | 102 | 65-150 | 5.67 | 20 | |
| **1,3,5-Trimethylbenzene** | **24.7** | 2.0 | ug/l | 25.0 | | 98.8 | 65-150 | 4.13 | 20 | |
| **Vinyl acetate** | **27.0** | 5.0 | ug/l | 25.0 | | 108 | 50-160 | 1.49 | 20 | |
| **Vinyl chloride** | **21.3** | 5.0 | ug/l | 25.0 | | 85.2 | 25-200 | 1.90 | 20 | |
| **Xylenes, Total** | **73.2** | 10 | ug/l | 75.0 | | 97.6 | 65-145 | 2.63 | 20 | |
| *Surrogate: Dibromofluoromethane* | *23.7* | | *ug/l* | *25.0* | | *94.8* | *70-160* | | | |
| *Surrogate: Toluene-d8* | *22.8* | | *ug/l* | *25.0* | | *91.2* | *75-140* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *23.9* | | *ug/l* | *25.0* | | *95.6* | *75-135* | | | |

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Project Manager



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Client Project ID: 70211-0-0150-2-2-2/S.Mesa WQARF Study
Report Number: PJI0314

Sampled: 09/20/00
Received: 09/20/00

7 METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0I2906 Extracted: 09/29/00** | | | | | | | | | | |
| **Matrix Spike Analyzed: 09/29/00 (P0I2906-MS1)** | | | | | **Source: PJI0314-01** | | | | | |
| Acetone | 20.9 | 20 | ug/l | 25.0 | ND | 83.6 | 35-150 | | | |
| Benzene | 23.8 | 2.0 | ug/l | 25.0 | ND | 95.2 | 75-120 | | | |
| Bromobenzene | 25.1 | 5.0 | ug/l | 25.0 | ND | 100 | 65-150 | | | |
| Bromochloromethane | 25.4 | 5.0 | ug/l | 25.0 | ND | 102 | 60-155 | | | |
| Bromodichloromethane | 26.5 | 2.0 | ug/l | 25.0 | ND | 106 | 60-155 | | | |
| Bromoform | 25.8 | 5.0 | ug/l | 25.0 | ND | 103 | 25-160 | | | |
| Bromomethane | 28.9 | 5.0 | ug/l | 25.0 | ND | 116 | 55-170 | | | |
| 2-Butanone (MEK) | 22.8 | 10 | ug/l | 25.0 | ND | 91.2 | 35-165 | | | |
| n-Butylbenzene | 24.7 | 5.0 | ug/l | 25.0 | ND | 98.8 | 65-140 | | | |
| sec-Butylbenzene | 24.1 | 5.0 | ug/l | 25.0 | ND | 96.4 | 60-145 | | | |
| tert-Butylbenzene | 25.0 | 5.0 | ug/l | 25.0 | ND | 100 | 65-145 | | | |
| Carbon Disulfide | 38.2 | 5.0 | ug/l | 25.0 | ND | 153 | 65-155 | | | |
| Carbon tetrachloride | 26.1 | 5.0 | ug/l | 25.0 | ND | 104 | 65-150 | | | |
| Chlorobenzene | 24.0 | 2.0 | ug/l | 25.0 | ND | 96.0 | 75-130 | | | |
| Chloroethane | 21.7 | 5.0 | ug/l | 25.0 | ND | 86.8 | 65-165 | | | |
| Chloroform | 25.8 | 2.0 | ug/l | 25.0 | ND | 103 | 70-130 | | | |
| Chloromethane | 14.3 | 5.0 | ug/l | 25.0 | ND | 57.2 | 60-165 | | | M |
| 2-Chlorotoluene | 24.9 | 5.0 | ug/l | 25.0 | ND | 99.6 | 65-145 | | | |
| 4-Chlorotoluene | 25.0 | 5.0 | ug/l | 25.0 | ND | 100 | 70-145 | | | |
| Dibromochloromethane | 26.2 | 2.0 | ug/l | 25.0 | ND | 105 | 55-155 | | | |
| 1,2-Dibromo-3-chloropropane | 23.3 | 5.0 | ug/l | 25.0 | ND | 93.2 | 40-150 | | | |
| 1,2-Dibromoethane (EDB) | 24.5 | 2.0 | ug/l | 25.0 | ND | 98.0 | 55-155 | | | |
| Dibromomethane | 25.6 | 2.0 | ug/l | 25.0 | ND | 102 | 60-155 | | | |
| 1,2-Dichlorobenzene | 25.1 | 2.0 | ug/l | 25.0 | ND | 100 | 65-140 | | | |
| 1,3-Dichlorobenzene | 24.3 | 2.0 | ug/l | 25.0 | ND | 97.2 | 65-145 | | | |
| 1,4-Dichlorobenzene | 24.3 | 2.0 | ug/l | 25.0 | ND | 97.2 | 65-140 | | | |
| Dichlorodifluoromethane | 17.1 | 5.0 | ug/l | 25.0 | ND | 68.4 | 30-190 | | | |
| 1,1-Dichloroethane | 22.4 | 2.0 | ug/l | 25.0 | ND | 89.6 | 70-130 | | | |
| 1,2-Dichloroethane | 27.0 | 2.0 | ug/l | 25.0 | ND | 108 | 70-130 | | | |
| 1,1-Dichloroethene | 22.3 | 5.0 | ug/l | 25.0 | ND | 89.2 | 65-135 | | | |

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Report Number: PJI0314

Sampled: 09/20/00
Received: 09/20/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0I2906 Extracted: 09/29/00** | | | | | | | | | | |
| **Matrix Spike Analyzed: 09/29/00 (P0I2906-MS1)** | | | | | **Source: PJI0314-01** | | | | | |
| cis-1,2-Dichloroethene | 22.8 | 2.0 | ug/l | 25.0 | ND | 91.2 | 70-130 | | | |
| trans-1,2-Dichloroethene | 22.3 | 2.0 | ug/l | 25.0 | ND | 89.2 | 55-175 | | | |
| 1,2-Dichloropropane | 25.5 | 2.0 | ug/l | 25.0 | ND | 102 | 70-130 | | | |
| 1,3-Dichloropropane | 24.4 | 2.0 | ug/l | 25.0 | ND | 97.6 | 60-150 | | | |
| 2,2-Dichloropropane | 26.2 | 2.0 | ug/l | 25.0 | ND | 105 | 15-200 | | | |
| 1,1-Dichloropropene | 23.7 | 2.0 | ug/l | 25.0 | ND | 94.8 | 65-150 | | | |
| cis-1,3-Dichloropropene | 23.6 | 2.0 | ug/l | 25.0 | ND | 94.4 | 65-150 | | | |
| trans-1,3-Dichloropropene | 23.7 | 2.0 | ug/l | 25.0 | ND | 94.8 | 60-150 | | | |
| Ethylbenzene | 23.6 | 2.0 | ug/l | 25.0 | ND | 94.4 | 60-150 | | | |
| Hexachlorobutadiene | 26.3 | 5.0 | ug/l | 25.0 | ND | 105 | 55-150 | | | |
| 2-Hexanone | 22.8 | 10 | ug/l | 25.0 | ND | 91.2 | 35-165 | | | |
| Iodomethane | 34.8 | 2.0 | ug/l | 25.0 | ND | 139 | 65-160 | | | |
| Isopropylbenzene | 24.3 | 2.0 | ug/l | 25.0 | ND | 97.2 | 65-145 | | | |
| p-Isopropyltoluene | 23.7 | 2.0 | ug/l | 25.0 | ND | 94.8 | 60-145 | | | |
| Methylene chloride | 22.2 | 5.0 | ug/l | 25.0 | ND | 88.8 | 65-160 | | | |
| 4-Methyl-2-pentatnone (MIBK) | 24.2 | 10 | ug/l | 25.0 | ND | 96.8 | 40-165 | | | |
| Methyl-tert-butyl Ether (MTBE) | 22.1 | 5.0 | ug/l | 25.0 | ND | 88.4 | 60-160 | | | |
| Naphthalene | 24.3 | 5.0 | ug/l | 25.0 | ND | 97.2 | 50-150 | | | |
| n-Propylbenzene | 24.9 | 2.0 | ug/l | 25.0 | ND | 99.6 | 70-145 | | | |
| Styrene | 21.1 | 2.0 | ug/l | 25.0 | ND | 84.4 | 65-150 | | | |
| 1,1,1,2-Tetrachloroethane | 25.7 | 5.0 | ug/l | 25.0 | ND | 103 | 60-155 | | | |
| 1,1,2,2-Tetrachloroethane | 25.2 | 2.0 | ug/l | 25.0 | ND | 101 | 65-150 | | | |
| Tetrachloroethene | 24.6 | 2.0 | ug/l | 25.0 | ND | 98.4 | 70-130 | | | |
| Toluene | 23.9 | 2.0 | ug/l | 25.0 | ND | 95.6 | 70-125 | | | |
| 1,2,3-Trichlorobenzene | 25.0 | 5.0 | ug/l | 25.0 | ND | 100 | 55-150 | | | |
| 1,2,4-Trichlorobenzene | 25.0 | 5.0 | ug/l | 25.0 | ND | 100 | 60-145 | | | |
| 1,1,1-Trichloroethane | 24.3 | 2.0 | ug/l | 25.0 | ND | 97.2 | 70-130 | | | |
| 1,1,2-Trichloroethane | 24.4 | 2.0 | ug/l | 25.0 | ND | 97.6 | 70-130 | | | |
| Trichloroethene | 24.7 | 2.0 | ug/l | 25.0 | ND | 98.8 | 75-120 | | | |
| Trichlorofluoromethane | 26.0 | 5.0 | ug/l | 25.0 | ND | 104 | 10-200 | | | |

Julie M. Slocum
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Law Engineering
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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2/S.Mesa WQARF Study
Report Number: PJI0314

Sampled: 09/20/00
Received: 09/20/00

## METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0I2906 Extracted: 09/29/00** | | | | | | | | | | |
| **Matrix Spike Analyzed: 09/29/00 (P0I2906-MS1)** | | | | | Source: PJI0314-01 | | | | | |
| 1,2,3-Trichloropropane | 25.4 | 10 | ug/l | 25.0 | ND | 102 | 55-150 | | | |
| 1,2,4-Trimethylbenzene | 24.6 | 2.0 | ug/l | 25.0 | ND | 98.4 | 65-150 | | | |
| 1,3,5-Trimethylbenzene | 24.5 | 2.0 | ug/l | 25.0 | ND | 98.0 | 65-150 | | | |
| Vinyl acetate | 24.7 | 5.0 | ug/l | 25.0 | ND | 98.8 | 50-160 | | | |
| Vinyl chloride | 17.7 | 5.0 | ug/l | 25.0 | ND | 70.8 | 25-200 | | | |
| Xylenes, Total | 76.1 | 10 | ug/l | 75.0 | ND | 101 | 65-145 | | | |
| *Surrogate: Dibromofluoromethane* | *23.6* | | *ug/l* | *25.0* | | *94.4* | *70-160* | | | |
| *Surrogate: Toluene-d8* | *22.5* | | *ug/l* | *25.0* | | *90.0* | *75-140* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *23.3* | | *ug/l* | *25.0* | | *93.2* | *75-135* | | | |
| **Matrix Spike Dup Analyzed: 09/29/00 (P0I2906-MSD1)** | | | | | Source: PJI0314-01 | | | | | |
| Acetone | 21.1 | 20 | ug/l | 25.0 | ND | 84.4 | 35-150 | 0.952 | 20 | |
| Benzene | 24.3 | 2.0 | ug/l | 25.0 | ND | 97.2 | 75-120 | 2.08 | 20 | |
| Bromobenzene | 25.4 | 5.0 | ug/l | 25.0 | ND | 102 | 65-150 | 1.19 | 20 | |
| Bromochloromethane | 26.1 | 5.0 | ug/l | 25.0 | ND | 104 | 60-155 | 2.72 | 20 | |
| Bromodichloromethane | 27.7 | 2.0 | ug/l | 25.0 | ND | 111 | 60-155 | 4.43 | 20 | |
| Bromoform | 25.2 | 5.0 | ug/l | 25.0 | ND | 101 | 25-160 | 2.35 | 20 | |
| Bromomethane | 30.4 | 5.0 | ug/l | 25.0 | ND | 122 | 55-170 | 5.06 | 20 | |
| 2-Butanone (MEK) | 23.1 | 10 | ug/l | 25.0 | ND | 92.4 | 35-165 | 1.31 | 20 | |
| n-Butylbenzene | 24.9 | 5.0 | ug/l | 25.0 | ND | 99.6 | 65-140 | 0.806 | 20 | |
| sec-Butylbenzene | 24.7 | 5.0 | ug/l | 25.0 | ND | 98.8 | 60-145 | 2.46 | 20 | |
| tert-Butylbenzene | 25.6 | 5.0 | ug/l | 25.0 | ND | 102 | 65-145 | 2.37 | 20 | |
| Carbon Disulfide | 39.7 | 5.0 | ug/l | 25.0 | ND | 159 | 65-155 | 3.85 | 20 | M2 |
| Carbon tetrachloride | 26.9 | 5.0 | ug/l | 25.0 | ND | 108 | 65-150 | 3.02 | 20 | |
| Chlorobenzene | 24.5 | 2.0 | ug/l | 25.0 | ND | 98.0 | 75-130 | 2.06 | 20 | |
| Chloroethane | 22.5 | 5.0 | ug/l | 25.0 | ND | 90.0 | 65-165 | 3.62 | 20 | |
| Chloroform | 27.0 | 2.0 | ug/l | 25.0 | ND | 108 | 70-130 | 4.55 | 20 | |
| Chloromethane | 15.8 | 5.0 | ug/l | 25.0 | ND | 63.2 | 60-165 | 9.97 | 20 | |
| 2-Chlorotoluene | 25.4 | 5.0 | ug/l | 25.0 | ND | 102 | 65-145 | 1.99 | 20 | |
| 4-Chlorotoluene | 25.6 | 5.0 | ug/l | 25.0 | ND | 102 | 70-145 | 2.37 | 20 | |
| Dibromochloromethane | 26.1 | 2.0 | ug/l | 25.0 | ND | 104 | 55-155 | 0.382 | 20 | |

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Client Project ID: 70211-0-0150-2-2-2/S.Mesa WQARF Study
Report Number: PJI0314

Sampled: 09/20/00
Received: 09/20/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0I2906 Extracted: 09/29/00** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 09/29/00 (P0I2906-MSD1)** | | | | | Source: PJI0314-01 | | | | | |
| 1,2-Dibromo-3-chloropropane | 25.4 | 5.0 | ug/l | 25.0 | ND | 102 | 40-150 | 8.62 | 20 | |
| 1,2-Dibromoethane (EDB) | 25.0 | 2.0 | ug/l | 25.0 | ND | 100 | 55-155 | 2.02 | 20 | |
| Dibromomethane | 26.5 | 2.0 | ug/l | 25.0 | ND | 106 | 60-155 | 3.45 | 20 | |
| 1,2-Dichlorobenzene | 25.2 | 2.0 | ug/l | 25.0 | ND | 101 | 65-140 | 0.398 | 20 | |
| 1,3-Dichlorobenzene | 24.8 | 2.0 | ug/l | 25.0 | ND | 99.2 | 65-145 | 2.04 | 20 | |
| 1,4-Dichlorobenzene | 25.6 | 2.0 | ug/l | 25.0 | ND | 102 | 65-140 | 5.21 | 20 | |
| Dichlorodifluoromethane | 17.2 | 5.0 | ug/l | 25.0 | ND | 68.8 | 30-190 | 0.583 | 20 | |
| 1,1-Dichloroethane | 23.9 | 2.0 | ug/l | 25.0 | ND | 95.6 | 70-130 | 6.48 | 20 | |
| 1,2-Dichloroethane | 28.1 | 2.0 | ug/l | 25.0 | ND | 112 | 70-130 | 3.99 | 20 | |
| 1,1-Dichloroethene | 23.5 | 5.0 | ug/l | 25.0 | ND | 94.0 | 65-135 | 5.24 | 20 | |
| cis-1,2-Dichloroethene | 24.0 | 2.0 | ug/l | 25.0 | ND | 96.0 | 70-130 | 5.13 | 20 | |
| trans-1,2-Dichloroethene | 23.3 | 2.0 | ug/l | 25.0 | ND | 93.2 | 55-175 | 4.39 | 20 | |
| 1,2-Dichloropropane | 25.8 | 2.0 | ug/l | 25.0 | ND | 103 | 70-130 | 1.17 | 20 | |
| 1,3-Dichloropropane | 24.5 | 2.0 | ug/l | 25.0 | ND | 98.0 | 60-150 | 0.409 | 20 | |
| 2,2-Dichloropropane | 26.7 | 2.0 | ug/l | 25.0 | ND | 107 | 15-200 | 1.89 | 20 | |
| 1,1-Dichloropropene | 24.6 | 2.0 | ug/l | 25.0 | ND | 98.4 | 65-150 | 3.73 | 20 | |
| cis-1,3-Dichloropropene | 24.3 | 2.0 | ug/l | 25.0 | ND | 97.2 | 65-150 | 2.92 | 20 | |
| trans-1,3-Dichloropropene | 23.8 | 2.0 | ug/l | 25.0 | ND | 95.2 | 60-150 | 0.421 | 20 | |
| Ethylbenzene | 23.8 | 2.0 | ug/l | 25.0 | ND | 95.2 | 60-150 | 0.844 | 20 | |
| Hexachlorobutadiene | 26.6 | 5.0 | ug/l | 25.0 | ND | 106 | 55-150 | 1.13 | 20 | |
| 2-Hexanone | 22.7 | 10 | ug/l | 25.0 | ND | 90.8 | 35-165 | 0.440 | 20 | |
| Iodomethane | 35.3 | 2.0 | ug/l | 25.0 | ND | 141 | 65-160 | 1.43 | 20 | |
| Isopropylbenzene | 24.6 | 2.0 | ug/l | 25.0 | ND | 98.4 | 65-145 | 1.23 | 20 | |
| p-Isopropyltoluene | 24.2 | 2.0 | ug/l | 25.0 | ND | 96.8 | 60-145 | 2.09 | 20 | |
| Methylene chloride | 23.5 | 5.0 | ug/l | 25.0 | ND | 94.0 | 65-160 | 5.69 | 20 | |
| 4-Methyl-2-pentatnone (MIBK) | 23.6 | 10 | ug/l | 25.0 | ND | 94.4 | 40-165 | 2.51 | 20 | |
| Methyl-tert-butyl Ether (MTBE) | 22.8 | 5.0 | ug/l | 25.0 | ND | 91.2 | 60-160 | 3.12 | 20 | |
| Naphthalene | 25.0 | 5.0 | ug/l | 25.0 | ND | 100 | 50-150 | 2.84 | 20 | |
| n-Propylbenzene | 25.5 | 2.0 | ug/l | 25.0 | ND | 102 | 70-145 | 2.38 | 20 | |
| Styrene | 21.2 | 2.0 | ug/l | 25.0 | ND | 84.8 | 65-150 | 0.473 | 20 | |

Julie M. Slocum
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Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2/S.Mesa WQARF Study
Report Number: PJI0314

Sampled: 09/20/00
Received: 09/20/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0I2906 Extracted: 09/29/00** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 09/29/00 (P0I2906-MSD1)** | | | | | Source: PJI0314-01 | | | | | |
| **1,1,1,2-Tetrachloroethane** | 25.7 | 5.0 | ug/l | 25.0 | ND | 103 | 60-155 | 0 | 20 | |
| **1,1,2,2-Tetrachloroethane** | 25.3 | 2.0 | ug/l | 25.0 | ND | 101 | 65-150 | 0.396 | 20 | |
| **Tetrachloroethene** | 25.3 | 2.0 | ug/l | 25.0 | ND | 101 | 70-130 | 2.81 | 20 | |
| **Toluene** | 24.0 | 2.0 | ug/l | 25.0 | ND | 96.0 | 70-125 | 0.418 | 20 | |
| **1,2,3-Trichlorobenzene** | 25.5 | 5.0 | ug/l | 25.0 | ND | 102 | 55-150 | 1.98 | 20 | |
| **1,2,4-Trichlorobenzene** | 25.3 | 5.0 | ug/l | 25.0 | ND | 101 | 60-145 | 1.19 | 20 | |
| **1,1,1-Trichloroethane** | 25.5 | 2.0 | ug/l | 25.0 | ND | 102 | 70-130 | 4.82 | 20 | |
| **1,1,2-Trichloroethane** | 25.0 | 2.0 | ug/l | 25.0 | ND | 100 | 70-130 | 2.43 | 20 | |
| **Trichloroethene** | 25.5 | 2.0 | ug/l | 25.0 | ND | 102 | 75-120 | 3.19 | 20 | |
| **Trichlorofluoromethane** | 27.4 | 5.0 | ug/l | 25.0 | ND | 110 | 10-200 | 5.24 | 20 | |
| **1,2,3-Trichloropropane** | 24.6 | 10 | ug/l | 25.0 | ND | 98.4 | 55-150 | 3.20 | 20 | |
| **1,2,4-Trimethylbenzene** | 25.2 | 2.0 | ug/l | 25.0 | ND | 101 | 65-150 | 2.41 | 20 | |
| **1,3,5-Trimethylbenzene** | 24.8 | 2.0 | ug/l | 25.0 | ND | 99.2 | 65-150 | 1.22 | 20 | |
| **Vinyl acetate** | 25.4 | 5.0 | ug/l | 25.0 | ND | 102 | 50-160 | 2.79 | 20 | |
| **Vinyl chloride** | 18.8 | 5.0 | ug/l | 25.0 | ND | 75.2 | 25-200 | 6.03 | 20 | |
| **Xylenes, Total** | 73.1 | 10 | ug/l | 75.0 | ND | 97.5 | 65-145 | 4.02 | 20 | |
| *Surrogate: Dibromofluoromethane* | *24.2* | | *ug/l* | *25.0* | | *96.8* | *70-160* | | | |
| *Surrogate: Toluene-d8* | *22.5* | | *ug/l* | *25.0* | | *90.0* | *75-140* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *23.2* | | *ug/l* | *25.0* | | *92.8* | *75-135* | | | |

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Report Number: PJI0314

Sampled: 09/20/00
Received: 09/20/00

METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0I2027 Extracted: 09/20/00** | | | | | | | | | | |
| **Blank Analyzed: 09/27/00 (P0I2027-BLK1)** | | | | | | | | | | |
| Antimony | ND | 0.0040 | mg/l | | | | | | | |
| Arsenic | ND | 0.0030 | mg/l | | | | | | | |
| Beryllium | ND | 0.00050 | mg/l | | | | | | | |
| Cadmium | ND | 0.00050 | mg/l | | | | | | | |
| Chromium | ND | 0.0040 | mg/l | | | | | | | |
| Selenium | ND | 0.0040 | mg/l | | | | | | | |
| **LCS Analyzed: 09/27/00 (P0I2027-BS1)** | | | | | | | | | | |
| **Antimony** | **0.0420** | 0.0080 | mg/l | 0.0400 | | 105 | 85-115 | | | |
| **Arsenic** | **0.0401** | 0.0060 | mg/l | 0.0400 | | 100 | 85-115 | | | |
| **Beryllium** | **0.00216** | 0.0010 | mg/l | 0.00200 | | 108 | 85-115 | | | |
| **Cadmium** | **0.00210** | 0.0010 | mg/l | 0.00200 | | 105 | 85-115 | | | |
| **Chromium** | **0.0446** | 0.0080 | mg/l | 0.0400 | | 111 | 85-115 | | | |
| **Selenium** | **0.0409** | 0.0080 | mg/l | 0.0400 | | 102 | 85-115 | | | |
| **LCS Dup Analyzed: 09/27/00 (P0I2027-BSD1)** | | | | | | | | | | |
| **Antimony** | **0.0418** | 0.0080 | mg/l | 0.0400 | | 105 | 85-115 | 0.477 | 20 | |
| **Arsenic** | **0.0413** | 0.0060 | mg/l | 0.0400 | | 103 | 85-115 | 2.95 | 20 | |
| **Beryllium** | **0.00215** | 0.0010 | mg/l | 0.00200 | | 107 | 85-115 | 0.464 | 20 | |
| **Cadmium** | **0.00204** | 0.0010 | mg/l | 0.00200 | | 102 | 85-115 | 2.90 | 20 | |
| **Chromium** | **0.0443** | 0.0080 | mg/l | 0.0400 | | 111 | 85-115 | 0.675 | 20 | |
| **Selenium** | **0.0427** | 0.0080 | mg/l | 0.0400 | | 107 | 85-115 | 4.31 | 20 | |
| **Matrix Spike Analyzed: 09/27/00 (P0I2027-MS1)** | | | | | **Source: PJI0296-01** | | | | | |
| **Antimony** | **0.0496** | 0.0080 | mg/l | 0.0400 | ND | 124 | 70-130 | | | |
| **Arsenic** | **0.0473** | 0.0060 | mg/l | 0.0400 | 0.0064 | 102 | 70-130 | | | |
| **Beryllium** | **0.00224** | 0.0010 | mg/l | 0.00200 | ND | 112 | 70-130 | | | |
| **Cadmium** | **0.00215** | 0.0010 | mg/l | 0.00200 | ND | 107 | 70-130 | | | |
| **Chromium** | **0.0542** | 0.0080 | mg/l | 0.0400 | ND | 128 | 70-130 | | | |
| **Selenium** | **0.0392** | 0.0080 | mg/l | 0.0400 | ND | 93.8 | 70-130 | | | |

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Report Number: PJI0314

Sampled: 09/20/00
Received: 09/20/00

## METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0I2027 Extracted: 09/20/00** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 09/27/00 (P0I2027-MSD1)** | | | | | Source: PJI0296-01 | | | | | |
| **Antimony** | **0.0499** | 0.0080 | mg/l | 0.0400 | ND | 125 | 70-130 | 0.603 | 20 | |
| **Arsenic** | **0.0447** | 0.0060 | mg/l | 0.0400 | 0.0064 | 95.8 | 70-130 | 5.65 | 20 | |
| **Beryllium** | **0.00222** | 0.0010 | mg/l | 0.00200 | ND | 111 | 70-130 | 0.897 | 20 | |
| **Cadmium** | **0.00206** | 0.0010 | mg/l | 0.00200 | ND | 103 | 70-130 | 4.28 | 20 | |
| **Chromium** | **0.0543** | 0.0080 | mg/l | 0.0400 | ND | 128 | 70-130 | 0.184 | 20 | |
| **Selenium** | **0.0374** | 0.0080 | mg/l | 0.0400 | ND | 89.3 | 70-130 | 4.70 | 20 | |
| **Batch: P0I2028 Extracted: 09/20/00** | | | | | | | | | | |
| **Blank Analyzed: 09/21/00 (P0I2028-BLK1)** | | | | | | | | | | |
| Aluminum | ND | 0.50 | mg/l | | | | | | | |
| Barium | ND | 0.010 | mg/l | | | | | | | |
| Calcium | ND | 2.0 | mg/l | | | | | | | |
| Cobalt | ND | 0.050 | mg/l | | | | | | | |
| Copper | ND | 0.020 | mg/l | | | | | | | |
| Iron | ND | 0.10 | mg/l | | | | | | | |
| Lead | ND | 0.050 | mg/l | | | | | | | |
| Magnesium | ND | 0.50 | mg/l | | | | | | | |
| Manganese | ND | 0.020 | mg/l | | | | | | | |
| Nickel | ND | 0.050 | mg/l | | | | | | | |
| Silver | ND | 0.0050 | mg/l | | | | | | | |
| Sodium | ND | 5.0 | mg/l | | | | | | | |
| Strontium | ND | 0.10 | mg/l | | | | | | | |
| Vanadium | ND | 0.050 | mg/l | | | | | | | |
| Zinc | ND | 0.050 | mg/l | | | | | | | |
| **LCS Analyzed: 09/21/00 (P0I2028-BS1)** | | | | | | | | | | |
| **Aluminum** | **1.08** | 0.50 | mg/l | 1.00 | | 108 | 85-115 | | | |
| **Barium** | **0.962** | 0.010 | mg/l | 1.00 | | 96.2 | 85-115 | | | |
| **Calcium** | **9.83** | 2.0 | mg/l | 10.0 | | 98.3 | 85-115 | | | |
| **Cobalt** | **0.968** | 0.050 | mg/l | 1.00 | | 96.8 | 85-115 | | | |
| **Copper** | **0.974** | 0.020 | mg/l | 1.00 | | 97.4 | 85-115 | | | |
| **Iron** | **10.0** | 0.10 | mg/l | 10.0 | | 100 | 85-115 | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2/S.Mesa WQARF Study
Report Number: PJI0314

Sampled: 09/20/00
Received: 09/20/00

METHOD BLANK QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0I2028 Extracted: 09/20/00** | | | | | | | | | | |
| **LCS Analyzed: 09/21/00 (P0I2028-BS1)** | | | | | | | | | | |
| **Lead** | **0.987** | 0.050 | mg/l | 1.00 | | 98.7 | 85-115 | | | |
| **Magnesium** | **9.46** | 0.50 | mg/l | 10.0 | | 94.6 | 85-115 | | | |
| **Manganese** | **0.973** | 0.020 | mg/l | 1.00 | | 97.3 | 85-115 | | | |
| **Nickel** | **0.953** | 0.050 | mg/l | 1.00 | | 95.3 | 85-115 | | | |
| **Silver** | **0.0495** | 0.0050 | mg/l | 0.0500 | | 99.0 | 85-115 | | | |
| **Sodium** | **51.6** | 5.0 | mg/l | 50.0 | | 103 | 85-115 | | | |
| Strontium | ND | 0.10 | mg/l | 0.100 | | 92.6 | 85-115 | | | |
| **Vanadium** | **0.986** | 0.050 | mg/l | 1.00 | | 98.6 | 85-115 | | | |
| **Zinc** | **0.946** | 0.050 | mg/l | 1.00 | | 94.6 | 85-115 | | | |
| **LCS Dup Analyzed: 09/21/00 (P0I2028-BSD1)** | | | | | | | | | | |
| **Aluminum** | **1.06** | 0.50 | mg/l | 1.00 | | 106 | 85-115 | 1.87 | 20 | |
| **Barium** | **0.980** | 0.010 | mg/l | 1.00 | | 98.0 | 85-115 | 1.85 | 20 | |
| **Calcium** | **9.89** | 2.0 | mg/l | 10.0 | | 98.9 | 85-115 | 0.609 | 20 | |
| **Cobalt** | **0.978** | 0.050 | mg/l | 1.00 | | 97.8 | 85-115 | 1.03 | 20 | |
| **Copper** | **0.971** | 0.020 | mg/l | 1.00 | | 97.1 | 85-115 | 0.308 | 20 | |
| **Iron** | **10.0** | 0.10 | mg/l | 10.0 | | 100 | 85-115 | 0 | 20 | |
| **Lead** | **0.999** | 0.050 | mg/l | 1.00 | | 99.9 | 85-115 | 1.21 | 20 | |
| **Magnesium** | **9.46** | 0.50 | mg/l | 10.0 | | 94.6 | 85-115 | 0 | 20 | |
| **Manganese** | **0.971** | 0.020 | mg/l | 1.00 | | 97.1 | 85-115 | 0.206 | 20 | |
| **Nickel** | **0.950** | 0.050 | mg/l | 1.00 | | 95.0 | 85-115 | 0.315 | 20 | |
| **Silver** | **0.0511** | 0.0050 | mg/l | 0.0500 | | 102 | 85-115 | 3.18 | 20 | |
| **Sodium** | **51.0** | 5.0 | mg/l | 50.0 | | 102 | 85-115 | 1.17 | 20 | |
| Strontium | ND | 0.10 | mg/l | 0.100 | | 92.6 | 85-115 | 0 | 20 | |
| **Vanadium** | **0.985** | 0.050 | mg/l | 1.00 | | 98.5 | 85-115 | 0.101 | 20 | |
| **Zinc** | **0.955** | 0.050 | mg/l | 1.00 | | 95.5 | 85-115 | 0.947 | 20 | |
| **Matrix Spike Analyzed: 09/21/00 (P0I2028-MS1)** | | | | | **Source: PJI0296-01** | | | | | |
| **Aluminum** | **1.17** | 0.50 | mg/l | 1.00 | ND | 117 | 70-130 | | | |
| **Barium** | **1.05** | 0.010 | mg/l | 1.00 | 0.096 | 95.4 | 70-130 | | | |
| **Calcium** | **128** | 2.0 | mg/l | 10.0 | 120 | 80.0 | 70-130 | | | |
| **Cobalt** | **0.952** | 0.050 | mg/l | 1.00 | ND | 95.2 | 70-130 | | | |
| **Copper** | **0.987** | 0.020 | mg/l | 1.00 | ND | 97.3 | 70-130 | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2/S.Mesa WQARF Study
Report Number: PJI0314

Sampled: 09/20/00
Received: 09/20/00

METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0I2028 Extracted: 09/20/00** | | | | | | | | | | |
| **Matrix Spike Analyzed: 09/21/00 (P0I2028-MS1)** | | | | | Source: PJI0296-01 | | | | | |
| **Iron** | **11.3** | 0.10 | mg/l | 10.0 | 1.4 | 99.0 | 70-130 | | | |
| **Lead** | **0.963** | 0.050 | mg/l | 1.00 | ND | 96.3 | 70-130 | | | |
| **Magnesium** | **53.3** | 0.50 | mg/l | 10.0 | 44 | 93.0 | 70-130 | | | |
| **Manganese** | **0.983** | 0.020 | mg/l | 1.00 | ND | 96.5 | 70-130 | | | |
| **Nickel** | **0.923** | 0.050 | mg/l | 1.00 | ND | 92.3 | 70-130 | | | |
| **Silver** | **0.0506** | 0.0050 | mg/l | 0.0500 | ND | 101 | 70-130 | | | |
| **Sodium** | **506** | 25 | mg/l | 50.0 | 460 | 92.0 | 85-115 | | | |
| **Strontium** | **1.19** | 1.0 | mg/l | 0.100 | 1.1 | 90.0 | 70-130 | | | |
| **Vanadium** | **1.00** | 0.050 | mg/l | 1.00 | ND | 99.3 | 70-130 | | | |
| **Zinc** | **0.885** | 0.050 | mg/l | 1.00 | ND | 88.5 | 70-130 | | | |
| **Matrix Spike Dup Analyzed: 09/21/00 (P0I2028-MSD1)** | | | | | Source: PJI0296-01 | | | | | |
| **Aluminum** | **1.18** | 0.50 | mg/l | 1.00 | ND | 118 | 70-130 | 0.851 | 20 | |
| **Barium** | **1.04** | 0.010 | mg/l | 1.00 | 0.096 | 94.4 | 70-130 | 0.957 | 20 | |
| **Calcium** | **127** | 2.0 | mg/l | 10.0 | 120 | 70.0 | 70-130 | 0.784 | 20 | |
| **Cobalt** | **0.958** | 0.050 | mg/l | 1.00 | ND | 95.8 | 70-130 | 0.628 | 20 | |
| **Copper** | **0.985** | 0.020 | mg/l | 1.00 | ND | 97.1 | 70-130 | 0.203 | 20 | |
| **Iron** | **11.3** | 0.10 | mg/l | 10.0 | 1.4 | 99.0 | 70-130 | 0 | 20 | |
| **Lead** | **0.963** | 0.050 | mg/l | 1.00 | ND | 96.3 | 70-130 | 0 | 20 | |
| **Magnesium** | **52.6** | 0.50 | mg/l | 10.0 | 44 | 86.0 | 70-130 | 1.32 | 20 | |
| **Manganese** | **0.981** | 0.020 | mg/l | 1.00 | ND | 96.3 | 70-130 | 0.204 | 20 | |
| **Nickel** | **0.920** | 0.050 | mg/l | 1.00 | ND | 92.0 | 70-130 | 0.326 | 20 | |
| **Silver** | **0.0506** | 0.0050 | mg/l | 0.0500 | ND | 101 | 70-130 | 0 | 20 | |
| **Sodium** | **507** | 25 | mg/l | 50.0 | 460 | 94.0 | 85-115 | 0.197 | 20 | |
| **Strontium** | **1.14** | 1.0 | mg/l | 0.100 | 1.1 | 40.0 | 70-130 | 4.29 | 20 | M |
| **Vanadium** | **0.994** | 0.050 | mg/l | 1.00 | ND | 98.7 | 70-130 | 0.602 | 20 | |
| **Zinc** | **0.890** | 0.050 | mg/l | 1.00 | ND | 89.0 | 70-130 | 0.563 | 20 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2/S.Mesa WQARF Study
Report Number: PJI0314

Sampled: 09/20/00
Received: 09/20/00

## METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0I2203 Extracted: 09/22/00** | | | | | | | | | | |
| **Blank Analyzed: 10/05/00 (P0I2203-BLK1)** | | | | | | | | | | |
| Antimony | ND | 0.0040 | mg/l | | | | | | | |
| Arsenic | ND | 0.0030 | mg/l | | | | | | | |
| Beryllium | ND | 0.00050 | mg/l | | | | | | | |
| Cadmium | ND | 0.00050 | mg/l | | | | | | | |
| Chromium | ND | 0.0040 | mg/l | | | | | | | |
| Selenium | ND | 0.0040 | mg/l | | | | | | | |
| **LCS Analyzed: 10/05/00 (P0I2203-BS1)** | | | | | | | | | | |
| **Antimony** | **0.0382** | 0.0080 | mg/l | 0.0400 | | 95.5 | 85-115 | | | |
| **Arsenic** | **0.0397** | 0.0060 | mg/l | 0.0400 | | 99.3 | 85-115 | | | |
| **Beryllium** | **0.00226** | 0.0010 | mg/l | 0.00200 | | 113 | 85-115 | | | |
| **Cadmium** | **0.00207** | 0.0010 | mg/l | 0.00200 | | 103 | 85-115 | | | |
| **Chromium** | **0.0415** | 0.0080 | mg/l | 0.0400 | | 104 | 85-115 | | | |
| **Selenium** | **0.0398** | 0.0080 | mg/l | 0.0400 | | 99.5 | 85-115 | | | |
| **LCS Dup Analyzed: 10/05/00 (P0I2203-BSD1)** | | | | | | | | | | |
| **Antimony** | **0.0368** | 0.0080 | mg/l | 0.0400 | | 92.0 | 85-115 | 3.73 | 20 | |
| **Arsenic** | **0.0405** | 0.0060 | mg/l | 0.0400 | | 101 | 85-115 | 2.00 | 20 | |
| **Beryllium** | **0.00184** | 0.0010 | mg/l | 0.00200 | | 92.0 | 85-115 | 20.5 | 20 | |
| **Cadmium** | **0.00214** | 0.0010 | mg/l | 0.00200 | | 107 | 85-115 | 3.33 | 20 | |
| **Chromium** | **0.0426** | 0.0080 | mg/l | 0.0400 | | 106 | 85-115 | 2.62 | 20 | |
| **Selenium** | **0.0419** | 0.0080 | mg/l | 0.0400 | | 105 | 85-115 | 5.14 | 20 | |
| **Matrix Spike Analyzed: 10/05/00 (P0I2203-MS1)** | | | | | **Source: PJI0307-02** | | | | | |
| **Antimony** | **0.0398** | 0.0080 | mg/l | 0.0400 | ND | 99.5 | 70-130 | | | |
| **Arsenic** | **0.0401** | 0.0060 | mg/l | 0.0400 | ND | 100 | 70-130 | | | |
| **Beryllium** | **0.00243** | 0.0010 | mg/l | 0.00200 | ND | 121 | 70-130 | | | |
| **Cadmium** | **0.00250** | 0.0010 | mg/l | 0.00200 | ND | 105 | 70-130 | | | |
| **Chromium** | **0.0435** | 0.0080 | mg/l | 0.0400 | ND | 109 | 70-130 | | | |
| **Selenium** | **0.0343** | 0.0080 | mg/l | 0.0400 | ND | 72.0 | 70-130 | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2-2/S.Mesa WQARF Study
Report Number: PJI0314

Sampled: 09/20/00
Received: 09/20/00

METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0I2203 Extracted: 09/22/00** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 10/05/00 (P0I2203-MSD1)** | | | | | **Source: PJI0307-02** | | | | | |
| **Antimony** | **0.0386** | 0.0080 | mg/l | 0.0400 | ND | 96.5 | 70-130 | 3.06 | 20 | |
| **Arsenic** | **0.0383** | 0.0060 | mg/l | 0.0400 | ND | 95.8 | 70-130 | 4.59 | 20 | |
| **Beryllium** | **0.00201** | 0.0010 | mg/l | 0.00200 | ND | 100 | 70-130 | 18.9 | 20 | |
| **Cadmium** | **0.00241** | 0.0010 | mg/l | 0.00200 | ND | 101 | 70-130 | 3.67 | 20 | |
| **Chromium** | **0.0422** | 0.0080 | mg/l | 0.0400 | ND | 106 | 70-130 | 3.03 | 20 | |
| **Selenium** | **0.0337** | 0.0080 | mg/l | 0.0400 | ND | 70.5 | 70-130 | 1.76 | 20 | |

Julie M. Slocum
Project Manager



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| | | | |
|---|---|---|---|
| Law Engineering<br>4634 S. 36th Place<br>Phoenix, AZ 85040<br>Attention: Jim Clarke | Client Project ID:<br>Report Number: | 70211-0-0150-2-2-2/S.Mesa WQARF Study<br>PJI0314 | Sampled: 09/20/00<br>Received: 09/20/00 |

METHOD BLANK/QC DATA

# DATA QUALIFIERS AND DEFINITIONS

| | |
|---|---|
| **L** | Laboratory Control Sample recovery was above the method control limits. Analyte not detected, data not impacted. |
| **M** | The MS and/or MSD were outside of the acceptance limits due to sample matrix interference. See Blank Spike (LCS). |
| **M2** | Matrix Spike recovery was outside the method control limits. See Corrective Action Report. |
| **ND** | Analyte NOT DETECTED at or above the reporting limit |
| **NR** | Not reported. |
| **RPD** | Relative Percent Difference |

Julie M. Slocum
Project Manager



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# CORRECTIVE ACTION REPORT

| | | | |
|---|---|---|---|
| Department: | GC/MS | Method: | 8260B |
| Date: | 09/29/2000 | Matrix: | Water |
| Batch: | P0I2906 | | |
| Samples: | PJI0314-01 – PJI0314-05 & PJI0315-01 | | |

Identification and Definition of Problem:

Carbon Disulfide recovered high and outside of acceptance limits in the Laboratory Control Sample / Laboratory Control Sample Duplicate (LCS/LCSD) as well as the Matrix Spike Duplicate (MSD).

Determination of the Cause of the Problem:

The cause of the high recoveries could not be determined.

Corrective Action:

The Matrix Spike recovered within acceptance limits for Carbon Disulfide. All of the associated samples were non-detect for Carbon Disulfide and therefore should not be impacted by the high recoveries.

Elizabeth C. Wueschner: Elizabeth C. Wueschner Date: 10/17/2000
Quality Assurance Manager

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# CHAIN OF CUSTODY FORM



Client Name/Address: Law Engineering

Project/PO Number: 70211-0-0150-2-2.2 S. Mesa WQARF Study

Project Manager: Jim Clarke

Phone Number: (602) 437-0250

Sampler: Wayne Bushnell

Fax Number: (602) 437-3675

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date | Sampling Time | Preservatives | Analysis Required: Method 8260 Full | Analysis Required: Metals (Total) | Special Instructions |
|---|---|---|---|---|---|---|---|---|---|
| MW-3S | | | | 9/20/00 | 8:30am | | X | X | PJT0314-01 |
| MW-7D | | | | 9/20/00 | 9:45am | | X | X | -02 |
| MW-2D | | | | 9/20/00 | 10:30am | | X | X | -03 |
| MW-10D | | | | 9/20/00 | 3:15pm | | X | X | -04 |
| ~~Kary Env.~~ | | | | ~~9/20/00~~ | | | | | |
| TRIP BLANK | | | 1 | " | " | | X | | -05 |

Relinquished By: Date /Time: 9/20/00 12 noon — Received by: Date /Time: 9/20/00

Relinquished By: Date /Time: 9/20/00 — Received by: Date /Time: CLD

Relinquished By: Date /Time: CLD — Received in Lab by: Date /Time: 9/20/00 1200

Turnaround Time: (Check)
same day ____ 72 hours ____
24 hours ____ 5 days ~~X~~ WB
48 hours ____ normal ✓

Sample Integrity: (Check)
intact ✓ on ice ✓

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

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| | | |
|---|---|---|
| Law Engineering<br>4634 S. 36th Place<br>Phoenix, AZ 85040<br>Attention: Jim Clarke | Client Project ID: 70211-0-0150-2-2.2<br>Report Number: PJJ0417 | Sampled: 09/19/00<br>Received: 10/25/00<br>Issued: 10/30/00<br>Revised: 11/16/00 |

# CASE NARRATIVE

| LABORATORY NUMBER | SAMPLE DESCRIPTION | SAMPLE MATRIX |
|---|---|---|
| PJJ0417-01 | SRP Well 28E-ON | Water |
| PJJ0417-02 | MW-6D | Water |
| PJJ0417-03 | MW-1D | Water |
| PJJ0417-04 | MW-1S | Water |
| PJJ0417-05 | MW-LW | Water |
| PJJ0417-06 | MW-AM-8S | Water |
| PJJ0417-07 | MW-9S | Water |
| PJJ0417-08 | MW-5D | Water |
| PJJ0417-09 | MW-5S | Water |

SAMPLE RECEIPT: Samples were received intact, on ice, and with chain of custody documentation.

HOLDING TIMES: Holding times were met.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria.

OBSERVATIONS: Lithium was analyzed by Method 7430 which calls for Method 3005A as the digestion method. The associated samples were digested by Method 200.2 which is a slightly less rigourous digestion than 3005A, however the data should not be significantly impacted. All QC met method criteria, and although samples do not meet method compliance, they do provide useful information.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

**DEL MAR ANALYTICAL , PHOENIX (AZ0426)**

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.2

Report Number: PJJ0417

Sampled: 09/19/00
Received: 10/25/00

## DISSOLVED METALS

| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJJ0417-01 (SRP Well 28E-ON - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2605 | 1.0 | ND | 1 | 9/20/00 | 10/26/00 | A-01,M |
| **Sample ID: PJJ0417-02 (MW-6D - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2605 | 1.0 | ND | 1 | 9/20/00 | 10/26/00 | A-01 |
| **Sample ID: PJJ0417-03 (MW-1D - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2605 | 1.0 | ND | 1 | 9/20/00 | 10/26/00 | A-01 |
| **Sample ID: PJJ0417-04 (MW-1S - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2605 | 1.0 | ND | 1 | 9/20/00 | 10/26/00 | A-01 |
| **Sample ID: PJJ0417-05 (MW-LW - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2605 | 1.0 | ND | 1 | 9/20/00 | 10/26/00 | A-01 |
| **Sample ID: PJJ0417-06 (MW-AM-8S - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2605 | 1.0 | ND | 1 | 9/20/00 | 10/26/00 | A-01 |
| **Sample ID: PJJ0417-07 (MW-9S - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2605 | 1.0 | ND | 1 | 9/20/00 | 10/26/00 | A-01 |
| **Sample ID: PJJ0417-08 (MW-5D - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2605 | 1.0 | ND | 1 | 9/20/00 | 10/26/00 | A-01 |
| **Sample ID: PJJ0417-09 (MW-5S - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2605 | 1.0 | ND | 1 | 9/20/00 | 10/26/00 | A-01 |

**DEL MAR ANALYTICAL, PHOENIX (AZ0426)**

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.2
Report Number: PJJ0417

Sampled: 09/19/00
Received: 10/25/00

METHOD BLANK/QC DATA

## DISSOLVED METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0J2605 Extracted: 09/20/00** | | | | | | | | | | |
| **Blank Analyzed: 10/26/00 (P0J2605-BLK1)** | | | | | | | | | | |
| Lithium | ND | 1.0 | mg/l | | | | | | | |
| **LCS Analyzed: 10/26/00 (P0J2605-BS1)** | | | | | | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | | 100 | 85-115 | | | |
| **LCS Dup Analyzed: 10/26/00 (P0J2605-BSD1)** | | | | | | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | | 100 | 85-115 | 0 | 20 | |
| **Matrix Spike Analyzed: 10/26/00 (P0J2605-MS1)** | | | | | **Source: PJJ0417-01** | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | ND | 120 | 85-115 | | | M |
| **Matrix Spike Dup Analyzed: 10/26/00 (P0J2605-MSD1)** | | | | | **Source: PJJ0417-01** | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | ND | 140 | 85-115 | 11.8 | 20 | M |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.2

Report Number: PJJ0417

Sampled: 09/19/00
Received: 10/25/00

METHOD BLANK/QC DATA

# DATA QUALIFIERS AND DEFINITIONS

**A-01** This analysis does not meet method compliance. See Case Narrative.

**M** The MS and/or MSD were outside of the acceptance limits due to sample matrix interference. See Blank Spike (LCS).

**ND** Analyte NOT DETECTED at or above the reporting limit

**NR** Not reported.

**RPD** Relative Percent Difference

Julie M. Slocum
Project Manager



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# ADDITIONAL ANALYSIS REQUEST FORM

Today's Date: 10/25/00 DMA Project Manager: _____

Request via: X telephone ____ chain of custody form ____ fax transmission ____ E-mail ____ other

Client: LAW Contact: Jim Clarke

Project: PJ10296 South MS2

Date Sampled: 9/19/00 Date Received: 9/19/00

Status: ___ in progress X completed ____ received today ____ received yesterday ____ on hold ____ other

| SAMPLE NUMBER | SAMPLE DESCRIPTION | ANALYSIS REQUESTED | SPECIAL REQUIREMENTS |
|---|---|---|---|
| PJ10296-01 | SRP Well 28E-ON | Lithium by FLAA | |
| -02 | MW-6D | Lithium by FLAA | |
| -03 | MW-1D | Lithium by FLAA | |
| -04 | MW-1S | Lithium by FLAA | |
| -05 | MW-LW | Lithium by FLAA | |
| -06 | MW-AM-8S | Lithium by FLAA | |
| -07 | MW-9S | Lithium by FLAA | |
| -08 | MW-5D | Lithium by FLAA | |
| -09 | MW-5S | Lithium by FLAA | |
| | | | |
| - Use digest from PJ10296- | | | |
| | | | |
| | | | |
| | | | |

TURNAROUND: ___ SAME DAY X 24 HR. ___ 48 HR. ___ 3 DAY ___ 5 DAY ___ STND X NO RUSH CHARGES

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9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-9596 FAX (858) 505-9689

# CHAIN OF CUSTODY FORM

Page _____ of _____

| Client Name/Address: | Project/PO Number: |
|---|---|
| LAW Engineering | 70211-0-0150-2-2.2 |
| **Project Manager:** Jim Clarke | **Phone Number:** |
| **Sampler:** Wayne Bushnell | **Fax Number:** |

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date | Sampling Time | Preservatives | 8240 Methane (Full) | Metals (Title) | Analysis Required | Special Instructions |
|---|---|---|---|---|---|---|---|---|---|---|
| SRP well 26E-ON | | | | 9/19/00 | 7:35a | | X | X | PJJ0296-01 | PJJ0417-01 |
| MW-6D | | | | 9/19/00 | 8:45 | | X | X | -02 | -02 |
| MW-1D | | | | 9/19/00 | 9:45am | | X | X | -03 | -03 |
| MW-1S | | | | 9/19/00 | 10:25am | | X | X | 04 | -04 |
| MW-LW | | | | 9/19/00 | 11:15am | | X | X | 05 | -05 |
| MW-AM-8S | | | | 9/19/00 | 11:45am | | X | X | 06 | -06 |
| MW-9S | | | | 9/19/00 | 12:30pm | | X | X | 07 | -07 |
| MW-5D | | | | 9/19/00 | 1:30pm | | X | X | 08 | -08 |
| MW-5S | | | | 9/19/00 | 2:30pm | | X | X | 09 | -09 |
| ~~MW-4S~~ | | | | 9/19/00 | 3:15pm | | X | X | CUD | |

| Relinquished By: | Date /Time: | Received by: | Date /Time: |
|---|---|---|---|
| | 9/19 4:25 pm | | |
| Relinquished By: | Date /Time: | Received by: | Date /Time: |
| | 9/19/00 | | 9/19/00 CUD |
| Relinquished By: | Date /Time: | Received in Lab by: | Date /Time: |
| CUD | | Carmina Perez | 9/19/00 1625 |

Turnaround Time: (Check)
same day _____ 72 hours _____
24 hours _____ 5 days _____
48 hours _____ normal X

Sample Integrity: (Check)
intact ✓ on ice ✓

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

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| | | |
|---|---|---|
| Law Engineering<br>4634 S. 36th Place<br>Phoenix, AZ 85040<br>Attention: Jim Clarke | Client Project ID: 70211-0-0150-2-2.2 S. Mesa WQARF Study<br>Report Number: PJJ0419 | Sampled: 09/20/00<br>Received: 10/25/00<br>Issued: 10/30/00<br>Revised: 11/16/00 |

# CASE NARRATIVE

| LABORATORY NUMBER | SAMPLE DESCRIPTION | SAMPLE MATRIX |
|---|---|---|
| PJJ0419-01 | MW-3S | Water |
| PJJ0419-02 | MW-7D | Water |
| PJJ0419-03 | MW-2D | Water |
| PJJ0419-04 | MW-10D | Water |

SAMPLE RECEIPT: Samples were received intact, on ice, and with chain of custody documentation.

HOLDING TIMES: Holding times were met.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria.

OBSERVATIONS: Lithium was analyzed by Method 7430 which calls for Method 3005A as the digestion method. The associated samples were digested by Method 200.2 which is a slightly less rigourous digestion than 3005A, however the data should not be significantly impacted. All QC met method criteria, and although samples do not meet method compliance, they do provide useful information.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

**DEL MAR ANALYTICAL , PHOENIX (AZ0426)**

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.2 S. Mesa WQARF Study
Report Number: PJJ0419

Sampled: 09/20/00
Received: 10/25/00

## DISSOLVED METALS

| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJJ0419-01 (MW-3S - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2605 | 1.0 | ND | 1 | 9/20/00 | 10/26/00 | A-01 |
| **Sample ID: PJJ0419-02 (MW-7D - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2605 | 1.0 | ND | 1 | 9/20/00 | 10/26/00 | A-01 |
| **Sample ID: PJJ0419-03 (MW-2D - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2605 | 1.0 | ND | 1 | 9/20/00 | 10/26/00 | A-01 |
| **Sample ID: PJJ0419-04 (MW-10D - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2605 | 1.0 | ND | 1 | 9/20/00 | 10/26/00 | A-01 |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.2 S. Mesa WQARF Study
Report Number: PJJ0419

Sampled: 09/20/00
Received: 10/25/00

## METHOD BLANK/QC DATA

# DISSOLVED METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0J2605 Extracted: 09/20/00** | | | | | | | | | | |
| **Blank Analyzed: 10/26/00 (P0J2605-BLK1)** | | | | | | | | | | |
| Lithium | ND | 1.0 | mg/l | | | | | | | |
| **LCS Analyzed: 10/26/00 (P0J2605-BS1)** | | | | | | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | | 100 | 85-115 | | | |
| **LCS Dup Analyzed: 10/26/00 (P0J2605-BSD1)** | | | | | | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | | 100 | 85-115 | 0 | 20 | |
| **Matrix Spike Analyzed: 10/26/00 (P0J2605-MS1)** | | | | | **Source: PJJ0417-01** | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | ND | 120 | 85-115 | | | M |
| **Matrix Spike Dup Analyzed: 10/26/00 (P0J2605-MSD1)** | | | | | **Source: PJJ0417-01** | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | ND | 140 | 85-115 | 11.8 | 20 | M |

Julie M. Slocum
Project Manager



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| | | |
|---|---|---|
| Law Engineering<br>4634 S. 36th Place<br>Phoenix, AZ 85040<br>Attention: Jim Clarke | Client Project ID: 70211-0-0150-2-2.2 S. Mesa WQARF Study<br>Report Number: PJJ0419 | Sampled: 09/20/00<br>Received: 10/25/00 |

METHOD BLANK/QC DATA

# DATA QUALIFIERS AND DEFINITIONS

**A-01** This analysis does not meet method compliance. See Case Narrative.

**M** The MS and/or MSD were outside of the acceptance limits due to sample matrix interference. See Blank Spike (LCS).

**ND** Analyte NOT DETECTED at or above the reporting limit

**NR** Not reported.

**RPD** Relative Percent Difference

Julie M. Slocum
Project Manager



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# ADDITIONAL ANALYSIS REQUEST FORM

Today's Date: 10/25/00 DMA Project Manager: Julie Slocum
Request via: X telephone ____ chain of custody form ____ fax transmission ____ E-mail ____ other
Client: LAW Contact: Jim Clarke
Project: PJ10314 South MS2
Date Sampled: 10/12 Date Received: ____
Status: ___ in progress ____ completed ____ received today ___ received yesterday ____ on hold ____ other

| SAMPLE NUMBER | SAMPLE DESCRIPTION | ANALYSIS REQUESTED | SPECIAL REQUIREMENTS |
|---|---|---|---|
| PJ10314-01 | MW-3S | Lithium by FLAA | |
| -02 | MW-7D | Lithium by FLAA | |
| -03 | MW-2D | Lithium by FLAA | |
| -04 | MW-10D | Lithium by FLAA | |
| | | | |
| | | | |
| | | | |
| | | | |
| Use digest from PJ10314 | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

TURNAROUND: ___ SAME DAY X 24 HR. ___ 48 HR. ___ 3 DAY ___ 5 DAY ___ STND X NO RUSH CHARGES

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# CHAIN OF CUSTODY FORM



Client Name/Address: Law Engineering

Project Manager: Jim Clarke

Sampler: Wayne Bushnell

Project/PO Number: 70211-0-0150-2-2.2
S. Mesa WQARF Study

Phone Number: (602) 437-0250

Fax Number: (602) 437-3675

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date | Sampling Time | Preservatives | Method 8260 full | Metals (Total) | Special Instructions |
|---|---|---|---|---|---|---|---|---|---|
| MW-35 | | | | 9/20/00 | 8:30am | | X | X | PJJ0314-01 / PJJ0419-01 |
| MW-7D | | | | 9/20/00 | 9:45am | | X | X | -02 / -02 |
| MW-2D | | | | 9/20/00 | 10:30am | | X | X | -03 / -03 |
| MW-10D | | | | 9/20/00 | 3:15pm | | X | X | -04 / -04 |
| ~~Kary Env.~~ | | | | ~~9/20/00~~ | | | | | |
| TRIP BLANK | | | 1 | " | " | | X | | -05 |

| | | | |
|---|---|---|---|
| Relinquished By: | Date/Time: 9/20/00 12 noon | Received by: | Date/Time: 9/20/00 |
| Relinquished By: | Date/Time: 9/20/00 | Received by: | Date/Time: CLD |
| Relinquished By: | Date/Time: CLD | Received in Lab by: | Date/Time: 9/20/00 1200 |

Turnaround Time: (Check)
same day ____ 72 hours ____
24 hours ____ 5 days ~~X~~ WB
48 hours ____ normal ✓

Sample Integrity: (Check)
intact ✓ on ice ✓

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

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| | | |
|---|---|---|
| Law Engineering<br>4634 S. 36th Place<br>Phoenix, AZ 85040<br>Attention: Jim Clarke | Client Project ID: 70211-0-0150-2-2.2 S. Mesa WQARF Study<br>Report Number: PJJ0419 | Sampled: 09/20/00<br>Received: 10/25/00<br>Issued: 10/30/00 |

# CASE NARRATIVE

| LABORATORY NUMBER | SAMPLE DESCRIPTION | SAMPLE MATRIX |
|---|---|---|
| PJJ0419-01 | MW-3S | Water |
| PJJ0419-02 | MW-7D | Water |
| PJJ0419-03 | MW-2D | Water |
| PJJ0419-04 | MW-10D | Water |

SAMPLE RECEIPT: Samples were received intact, on ice, and with chain of custody documentation.

HOLDING TIMES: Holding times were met.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria.

OBSERVATIONS: Lithium was analyzed by Method 7430 which calls for Method 3005A as the digestion method. The associated samples were digested by Method 200.2 which is a slightly less rigourous digestion than 3005A, however the data should not be significantly impacted. All QC met method criteria, and although samples do not meet method compliance, they do provide useful information.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

**DEL MAR ANALYTICAL , PHOENIX (AZ0426)**

Julie M. Slocum
Project Manager



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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.2 S. Mesa WQARF Study
Report Number: PJJ0419

Sampled: 09/20/00
Received: 10/25/00

## DISSOLVED METALS

| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJJ0419-01 (MW-3S - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2605 | 1.0 | ND | 1 | 10/26/00 | 10/26/00 | A-01 |
| **Sample ID: PJJ0419-02 (MW-7D - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2605 | 1.0 | ND | 1 | 10/26/00 | 10/26/00 | A-01 |
| **Sample ID: PJJ0419-03 (MW-2D - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2605 | 1.0 | ND | 1 | 10/26/00 | 10/26/00 | A-01 |
| **Sample ID: PJJ0419-04 (MW-10D - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2605 | 1.0 | ND | 1 | 10/26/00 | 10/26/00 | A-01 |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.2 S. Mesa WQARF Study
Report Number: PJJ0419

Sampled: 09/20/00
Received: 10/25/00

## METHOD BLANK/QC DATA

# DISSOLVED METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0J2605 Extracted: 10/26/00** | | | | | | | | | | |
| **Blank Analyzed: 10/26/00 (P0J2605-BLK1)** | | | | | | | | | | |
| Lithium | ND | 1.0 | mg/l | | | | | | | |
| **LCS Analyzed: 10/26/00 (P0J2605-BS1)** | | | | | | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | | 100 | 85-115 | | | |
| **LCS Dup Analyzed: 10/26/00 (P0J2605-BSD1)** | | | | | | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | | 100 | 85-115 | 0 | 20 | |
| **Matrix Spike Analyzed: 10/26/00 (P0J2605-MS1)** | | | | | **Source: PJJ0417-01** | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | ND | 120 | 85-115 | | | M |
| **Matrix Spike Dup Analyzed: 10/26/00 (P0J2605-MSD1)** | | | | | **Source: PJJ0417-01** | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | ND | 140 | 85-115 | 11.8 | 20 | M |

Julie M. Slocum
Project Manager



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| | | | |
|---|---|---|---|
| Law Engineering<br>4634 S. 36th Place<br>Phoenix, AZ 85040<br>Attention: Jim Clarke | Client Project ID:<br>Report Number: | 70211-0-0150-2-2.2 S. Mesa WQARF Study<br>PJJ0419 | Sampled: 09/20/00<br>Received: 10/25/00 |

METHOD BLANK QC DATA

# DATA QUALIFIERS AND DEFINITIONS

**A-01** This analysis does not meet method compliance. See Case Narrative.

**M** The MS and/or MSD were outside of the acceptance limits due to sample matrix interference. See Blank Spike (LCS).

**ND** Analyte NOT DETECTED at or above the reporting limit

**NR** Not reported.

**RPD** Relative Percent Difference

Julie M. Slocum
Project Manager



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# CHAIN OF CUSTODY FORM



Client Name/Address: Law Engineering

Project/PO Number: 70211-0-0150-2-2.2 S. Mesa WQARF Study

Project Manager: Jim Clarke

Phone Number: (602) 437-0250

Sampler: Wayne Bushnell

Fax Number: (602) 437-3675

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date | Sampling Time | Preservatives | Method 8260 full | Metals (Tuli'd) | Special Instructions |
|---|---|---|---|---|---|---|---|---|---|
| MW-35 | | | | 9/20/00 | 8:30am | | X | X | PJJ0314-01 / PJJ0419-01 |
| MW-7D | | | | 9/20/00 | 9:45am | | X | X | -02 / -02 |
| MW-2D | | | | 9/20/00 | 10:30am | | X | X | -03 / -03 |
| MW-10D | | | | 9/20/00 | 3:15pm | | X | X | -04 / -04 |
| ~~Kary Env.~~ | ~~—~~ | ~~—~~ | ~~—~~ | ~~9/20/00~~ | | | ~~—~~ | ~~—~~ | ~~—~~ |
| TRIP BLANK | | | 1 | " | " | | X | | -05 |

Relinquished By: [signature] Date/Time: 9/20/00 12 noon

Received by: [illegible] Date/Time: 9/20/00

Relinquished By: [illegible] Date/Time: 9/20/00

Received by: CLD Date/Time:

Relinquished By: CLD Date/Time:

Received in Lab by: [signature] Date/Time: 9/20/00 1200

Turnaround Time: (Check)
same day ____ 72 hours ____
24 hours ____ 5 days ★ WB
48 hours ____ normal ✓

Sample Integrity: (Check)
intact ✓ on ice ✓

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.2

Report Number: PJJ0417

Sampled: 09/19/00
Received: 10/25/00
Issued: 10/30/00

# CASE NARRATIVE

| LABORATORY NUMBER | SAMPLE DESCRIPTION | SAMPLE MATRIX |
|---|---|---|
| PJJ0417-01 | SRP Well 28E-ON | Water |
| PJJ0417-02 | MW-6D | Water |
| PJJ0417-03 | MW-1D | Water |
| PJJ0417-04 | MW-1S | Water |
| PJJ0417-05 | MW-LW | Water |
| PJJ0417-06 | MW-AM-8S | Water |
| PJJ0417-07 | MW-9S | Water |
| PJJ0417-08 | MW-5D | Water |
| PJJ0417-09 | MW-5S | Water |

SAMPLE RECEIPT: Samples were received intact, on ice, and with chain of custody documentation.

HOLDING TIMES: Holding times were met.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria.

OBSERVATIONS: Lithium was analyzed by Method 7430 which calls for Method 3005A as the digestion method. The associated samples were digested by Method 200.2 which is a slightly less rigourous digestion than 3005A, however the data should not be significantly impacted. All QC met method criteria, and although samples do not meet method compliance, they do provide useful information.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

**DEL MAR ANALYTICAL , PHOENIX (AZ0426)**

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.2
Report Number: PJJ0417

Sampled: 09/19/00
Received: 10/25/00

## DISSOLVED METALS

| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJJ0417-01 (SRP Well 28E-ON - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2605 | 1.0 | ND | 1 | 10/26/00 | 10/26/00 | A-01,M |
| **Sample ID: PJJ0417-02 (MW-6D - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2605 | 1.0 | ND | 1 | 10/26/00 | 10/26/00 | A-01 |
| **Sample ID: PJJ0417-03 (MW-1D - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2605 | 1.0 | ND | 1 | 10/26/00 | 10/26/00 | A-01 |
| **Sample ID: PJJ0417-04 (MW-1S - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2605 | 1.0 | ND | 1 | 10/26/00 | 10/26/00 | A-01 |
| **Sample ID: PJJ0417-05 (MW-LW - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2605 | 1.0 | ND | 1 | 10/26/00 | 10/26/00 | A-01 |
| **Sample ID: PJJ0417-06 (MW-AM-8S - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2605 | 1.0 | ND | 1 | 10/26/00 | 10/26/00 | A-01 |
| **Sample ID: PJJ0417-07 (MW-9S - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2605 | 1.0 | ND | 1 | 10/26/00 | 10/26/00 | A-01 |
| **Sample ID: PJJ0417-08 (MW-5D - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2605 | 1.0 | ND | 1 | 10/26/00 | 10/26/00 | A-01 |
| **Sample ID: PJJ0417-09 (MW-5S - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2605 | 1.0 | ND | 1 | 10/26/00 | 10/26/00 | A-01 |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.2
Report Number: PJJ0417

Sampled: 09/19/00
Received: 10/25/00

METHOD BLANK/QC DATA

## DISSOLVED METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0J2605 Extracted: 10/26/00** | | | | | | | | | | |
| **Blank Analyzed: 10/26/00 (P0J2605-BLK1)** | | | | | | | | | | |
| Lithium | ND | 1.0 | mg/l | | | | | | | |
| **LCS Analyzed: 10/26/00 (P0J2605-BS1)** | | | | | | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | | 100 | 85-115 | | | |
| **LCS Dup Analyzed: 10/26/00 (P0J2605-BSD1)** | | | | | | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | | 100 | 85-115 | 0 | 20 | |
| **Matrix Spike Analyzed: 10/26/00 (P0J2605-MS1)** | | | | | **Source: PJJ0417-01** | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | ND | 120 | 85-115 | | | M |
| **Matrix Spike Dup Analyzed: 10/26/00 (P0J2605-MSD1)** | | | | | **Source: PJJ0417-01** | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | ND | 140 | 85-115 | 11.8 | 20 | M |

Julie M. Slocum
Project Manager



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| | | |
|---|---|---|
| Law Engineering<br>4634 S. 36th Place<br>Phoenix, AZ 85040<br>Attention: Jim Clarke | Client Project ID: 70211-0-0150-2-2.2<br>Report Number: PJJ0417 | Sampled: 09/19/00<br>Received: 10/25/00 |

METHOD BLANK/QC DATA

# DATA QUALIFIERS AND DEFINITIONS

**A-01** This analysis does not meet method compliance. See Case Narrative.

**M** The MS and/or MSD were outside of the acceptance limits due to sample matrix interference. See Blank Spike (LCS).

**ND** Analyte NOT DETECTED at or above the reporting limit

**NR** Not reported.

**RPD** Relative Percent Difference

Julie M. Slocum
Project Manager



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# ADDITIONAL ANALYSIS REQUEST FORM

Today's Date: 10/25/00 DMA Project Manager: _____

Request via: X telephone _____ chain of custody form _____ fax transmission _____ E-mail _____ other

Client: LAW Contact: Jim Clarke

Project: PJ10296 South Mesa

Date Sampled: 9/19/00 Date Received: 9/19/00

Status: ___ in progress X completed _____ received today ___ received yesterday _____ on hold _____ other

| SAMPLE NUMBER | SAMPLE DESCRIPTION | ANALYSIS REQUESTED | SPECIAL REQUIREMENTS |
|---|---|---|---|
| PJ10296-01 | SRP Well 28E-ON | Lithium by FLAA | |
| -02 | MW-6D | Lithium by FLAA | |
| -03 | MW-1D | Lithium by FLAA | |
| -04 | MW-1S | Lithium by FLAA | |
| -05 | MW-LW | Lithium by FLAA | |
| -06 | MW-AM-8S | Lithium by FLAA | |
| -07 | MW-9S | Lithium by FLAA | |
| -08 | MW-5D | Lithium by FLAA | |
| -09 | MW-5S | Lithium by FLAA | |
| | | | |
| ~ Use digest from PJ10296- | | | |
| | | | |
| | | | |
| | | | |

TURNAROUND: ___ SAME DAY X 24 HR. ___ 48 HR. ___ 3 DAY ___ 5 DAY ___ STND X NO RUSH CHARGES

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# CHAIN OF CUSTODY FORM

Page _____ of _____

Client Name/Address: LAW Engineering

Project/PO Number: 70211-0-0150-2-2.2

Project Manager: Jim Clarke

Phone Number:

Sampler: Wayne Bushnell

Fax Number:

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date | Sampling Time | Preservatives | Analysis Required: methyl 8260 (Full) | Analysis Required: metals (Title) | Special Instructions |
|---|---|---|---|---|---|---|---|---|---|
| SRP well 26E-DN | | | | 9/19/00 | 7:35a | | X | X | PJJ0417-01 |
| MW-6D | | | | 9/19/00 | 8:45 | | X | X | -02 |
| MW-1D | | | | 9/19/00 | 9:45am | | X | X | -03 |
| MW-1S | | | | 9/19/00 | 10:25am | | X | X | -04 |
| MW-LW | | | | 9/19/00 | 11:15am | | X | X | -05 |
| MW-AM-8S | | | | 9/19/00 | 11:45am | | X | X | -06 |
| MW-9S | | | | 9/19/00 | 12:30pm | | X | X | -07 |
| MW-5D | | | | 9/19/00 | 1:30pm | | X | X | -08 |
| MW-5S | | | | 9/19/00 | 2:30pm | | X | X | -09 |
| ~~MW-4S~~ | | | | 9/19/00 | 3:15pm | | X | X | |

PJJ0296-01 CLD

| | | | |
|---|---|---|---|
| Relinquished By: | Date /Time: 9/19 4:25 pm | Received by: | Date /Time: |
| Relinquished By: | Date /Time: 9/19/00 | Received by: CLD | Date /Time: 9/19/00 |
| Relinquished By: CLD | Date /Time: | Received in Lab by: Corrina Dewey | Date /Time: 9/19/00 1625 |

Turnaround Time: (Check)
same day _____ 72 hours _____
24 hours _____ 5 days _____
48 hours _____ normal X

Sample Integrity: (Check)
intact ✓ on ice ✓

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

| | | |
|---|---|---|
| Law Engineering<br>4634 S. 36th Place<br>Phoenix, AZ 85040<br>Attention: Jim Clarke | Client Project ID: 70211-0-0150-2-2.2<br>Report Number: PJJ0417 | Sampled: 09/19/00<br>Received: 09/19/00<br>Issued: 10/30/00<br>Revised: 12/12/00 |

# CASE NARRATIVE

| LABORATORY NUMBER | SAMPLE DESCRIPTION | SAMPLE MATRIX |
|---|---|---|
| PJJ0417-01 | SRP Well 28E-ON | Water |
| PJJ0417-02 | MW-6D | Water |
| PJJ0417-03 | MW-1D | Water |
| PJJ0417-04 | MW-1S | Water |
| PJJ0417-05 | MW-LW | Water |
| PJJ0417-06 | MW-AM-8S | Water |
| PJJ0417-07 | MW-9S | Water |
| PJJ0417-08 | MW-5D | Water |
| PJJ0417-09 | MW-5S | Water |

SAMPLE RECEIPT: Samples were received intact, on ice, and with chain of custody documentation. Samples were orginally received on 9/19/00 but were not logged in for Lithium until 10/25/00.

HOLDING TIMES: Holding times were met.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: Although samples are not compliant because a different digestion was used, the associated QC met criteria, providing useful results.

OBSERVATIONS: Lithium was analyzed by Method 7430 which calls for Method 3005A as the digestion method. The associated samples were digested by Method 200.2 which is a slightly less rigourous digestion than 3005A, however the data should not be significantly impacted.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

**DEL MAR ANALYTICAL , PHOENIX (AZ0426)**

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.2
Report Number: PJJ0417

Sampled: 09/19/00
Received: 09/19/00

## TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJJ0417-01 (SRP Well 28E-ON - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2605 | 1.0 | ND | 1 | 9/20/00 | 10/26/00 | A-01,M |
| **Sample ID: PJJ0417-02 (MW-6D - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2605 | 1.0 | ND | 1 | 9/20/00 | 10/26/00 | A-01 |
| **Sample ID: PJJ0417-03 (MW-1D - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2605 | 1.0 | ND | 1 | 9/20/00 | 10/26/00 | A-01 |
| **Sample ID: PJJ0417-04 (MW-1S - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2605 | 1.0 | ND | 1 | 9/20/00 | 10/26/00 | A-01 |
| **Sample ID: PJJ0417-05 (MW-LW - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2605 | 1.0 | ND | 1 | 9/20/00 | 10/26/00 | A-01 |
| **Sample ID: PJJ0417-06 (MW-AM-8S - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2605 | 1.0 | ND | 1 | 9/20/00 | 10/26/00 | A-01 |
| **Sample ID: PJJ0417-07 (MW-9S - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2605 | 1.0 | ND | 1 | 9/20/00 | 10/26/00 | A-01 |
| **Sample ID: PJJ0417-08 (MW-5D - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2605 | 1.0 | ND | 1 | 9/20/00 | 10/26/00 | A-01 |
| **Sample ID: PJJ0417-09 (MW-5S - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2605 | 1.0 | ND | 1 | 9/20/00 | 10/26/00 | A-01 |

**DEL MAR ANALYTICAL, PHOENIX (AZ0426)**

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.2

Report Number: PJJ0417

Sampled: 09/19/00
Received: 09/19/00

METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0J2605 Extracted: 09/20/00** | | | | | | | | | | |
| **Blank Analyzed: 10/26/00 (P0J2605-BLK1)** | | | | | | | | | | |
| Lithium | ND | 1.0 | mg/l | | | | | | | |
| **LCS Analyzed: 10/26/00 (P0J2605-BS1)** | | | | | | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | | 100 | 85-115 | | | |
| **LCS Dup Analyzed: 10/26/00 (P0J2605-BSD1)** | | | | | | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | | 100 | 85-115 | 0 | 20 | |
| **Matrix Spike Analyzed: 10/26/00 (P0J2605-MS1)** | | | | | **Source: PJJ0417-01** | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | ND | 120 | 85-115 | | | M |
| **Matrix Spike Dup Analyzed: 10/26/00 (P0J2605-MSD1)** | | | | | **Source: PJJ0417-01** | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | ND | 140 | 85-115 | 11.8 | 20 | M |

Julie M. Slocum
Project Manager



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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.2

Report Number: PJJ0417

Sampled: 09/19/00
Received: 09/19/00

METHOD BLANK/QC DATA

# DATA QUALIFIERS AND DEFINITIONS

**A-01** This analysis does not meet method compliance. See Case Narrative.

**M** The MS and/or MSD were outside of the acceptance limits due to sample matrix interference. See Blank Spike (LCS).

**ND** Analyte NOT DETECTED at or above the reporting limit

**NR** Not reported.

**RPD** Relative Percent Difference

Julie M. Slocum
Project Manager



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# ADDITIONAL ANALYSIS REQUEST FORM

Today's Date: 10/25/00 DMA Project Manager: _____

Request via: X telephone _____ chain of custody form _____ fax transmission _____ E-mail _____ other

Client: LAW Contact: Jim Clarke

Project: PJ10296 South MS2

Date Sampled: 9/19/00 Date Received: 9/19/00

Status: ___ in progress X completed _____ received today ___ received yesterday _____ on hold _____ other

| SAMPLE NUMBER | SAMPLE DESCRIPTION | ANALYSIS REQUESTED | SPECIAL REQUIREMENTS |
|---|---|---|---|
| PJ10296-01 | SRP Well 28E-ON | Lithium by FLAA | |
| -02 | MW-6D | Lithium by FLAA | |
| -03 | MW-1D | Lithium by FLAA | |
| -04 | MW-1S | Lithium by FLAA | |
| -05 | MW-LW | Lithium by FLAA | |
| -06 | MW-AM-8S | Lithium by FLAA | |
| -07 | MW-9S | Lithium by FLAA | |
| -08 | MW-5D | Lithium by FLAA | |
| -09 | MW-5S | Lithium by FLAA | |
| | | | |
| - Use digest from PJ10296- | | | |
| | | | |
| | | | |
| | | | |

TURNAROUND: ___ SAME DAY X 24 HR. ___ 48 HR. ___ 3 DAY ___ 5 DAY ___ STND X NO RUSH CHARGES

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# CHAIN OF CUSTODY FORM



Client Name/Address: LAW Engineering

Project/PO Number: 70211-0-0150-2-2.2

Project Manager: Jim Clarke

Phone Number:

Sampler: Wayne Bushnell

Fax Number:

Analysis Required: Method 8260 (Full); Metals (Pb/Ic)

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date | Sampling Time | Preservatives | Method 8260 (Full) | Metals (Pb/Ic) | Special Instructions |
|---|---|---|---|---|---|---|---|---|---|
| SRP well 28E-DN | | | | 9/19/00 | 7:35a | | X | X | PJJ0417-01 |
| MW-6D | | | | 9/19/00 | 8:45 | | X | X | -02 |
| MW-1D | | | | 9/19/00 | 9:45am | | X | X | -03 |
| MW-1S | | | | 9/19/00 | 10:25am | | X | X | -04 |
| MW-2W | | | | 9/19/00 | 11:15am | | X | X | -05 |
| MW-AM-8S | | | | 9/19/00 | 11:45am | | X | X | -06 |
| MW-9S | | | | 9/19/00 | 12:30pm | | X | X | -07 |
| MW-5D | | | | 9/19/00 | 1:30pm | | X | X | -08 |
| MW-5S | | | | 9/19/00 | 2:30pm | | X | X | -09 |
| ~~MW-4S~~ | | | | 9/19/00 | 3:15pm | | X | X | |

PJJ0296-01

CLD

| | | | |
|---|---|---|---|
| Relinquished By: | Date /Time: 9/19 4:25 pm | Received by: | Date /Time: 9/19/00 |
| Relinquished By: | Date /Time: 9/19/00 | Received by: CLD | Date /Time: |
| Relinquished By: CLD | Date /Time: | Received in Lab by: Corinna Peasley | Date /Time: 9/19/00 1625 |

Turnaround Time: (Check)
same day _____ 72 hours _____
24 hours _____ 5 days _____
48 hours _____ normal X

Sample Integrity: (Check)
Intact ✓ on ice ✓

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

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| | | |
|---|---|---|
| Law Engineering<br>4634 S. 36th Place<br>Phoenix, AZ 85040<br>Attention: Jim Clarke | Client Project ID: 70211-0-0150-2-2.2 S. Mesa WQARF Study<br>Report Number: PJJ0419 | Sampled: 09/20/00<br>Received: 09/20/00<br>Issued: 10/30/00<br>Revised: 12/12/00 |

# CASE NARRATIVE

| LABORATORY NUMBER | SAMPLE DESCRIPTION | SAMPLE MATRIX |
|---|---|---|
| PJJ0419-01 | MW-3S | Water |
| PJJ0419-02 | MW-7D | Water |
| PJJ0419-03 | MW-2D | Water |
| PJJ0419-04 | MW-10D | Water |

SAMPLE RECEIPT: Samples were received intact, on ice, and with chain of custody documentation. Samples were orginally received on 9/20/00 but were not logged in for Lithium until 10/25/00.

HOLDING TIMES: Holding times were met.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: Although samples are not compliant because a different digestion was used, the associated QC met criteria, providing useful results.

OBSERVATIONS: Lithium was analyzed by Method 7430 which calls for Method 3005A as the digestion method. The associated samples were digested by Method 200.2 which is a slightly less rigourous digestion than 3005A, however the data should not be significantly impacted.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

**DEL MAR ANALYTICAL , PHOENIX (AZ0426)**

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.2 S. Mesa WQARF Study
Report Number: PJJ0419

Sampled: 09/20/00
Received: 09/20/00

## TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJJ0419-01 (MW-3S - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2605 | 1.0 | ND | 1 | 9/20/00 | 10/26/00 | A-01 |
| **Sample ID: PJJ0419-02 (MW-7D - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2605 | 1.0 | ND | 1 | 9/20/00 | 10/26/00 | A-01 |
| **Sample ID: PJJ0419-03 (MW-2D - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2605 | 1.0 | ND | 1 | 9/20/00 | 10/26/00 | A-01 |
| **Sample ID: PJJ0419-04 (MW-10D - Water)** | | | | | | | | |
| Lithium | EPA 7430 | P0J2605 | 1.0 | ND | 1 | 9/20/00 | 10/26/00 | A-01 |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.2 S. Mesa WQARF Study
Report Number: PJJ0419

Sampled: 09/20/00
Received: 09/20/00

METHOD BLANK/QC DATA

## TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0J2605 Extracted: 09/20/00** | | | | | | | | | | |
| **Blank Analyzed: 10/26/00 (P0J2605-BLK1)** | | | | | | | | | | |
| Lithium | ND | 1.0 | mg/l | | | | | | | |
| **LCS Analyzed: 10/26/00 (P0J2605-BS1)** | | | | | | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | | 100 | 85-115 | | | |
| **LCS Dup Analyzed: 10/26/00 (P0J2605-BSD1)** | | | | | | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | | 100 | 85-115 | 0 | 20 | |
| **Matrix Spike Analyzed: 10/26/00 (P0J2605-MS1)** | | | | | **Source: PJJ0417-01** | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | ND | 120 | 85-115 | | | M |
| **Matrix Spike Dup Analyzed: 10/26/00 (P0J2605-MSD1)** | | | | | **Source: PJJ0417-01** | | | | | |
| Lithium | ND | 1.0 | mg/l | 0.500 | ND | 140 | 85-115 | 11.8 | 20 | M |

Julie M. Slocum
Project Manager



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| | | |
|---|---|---|
| Law Engineering<br>4634 S. 36th Place<br>Phoenix, AZ 85040<br>Attention: Jim Clarke | Client Project ID: 70211-0-0150-2-2.2 S. Mesa WQARF Study<br>Report Number: PJJ0419 | Sampled: 09/20/00<br>Received: 09/20/00 |

METHOD BLANK/QC DATA

# DATA QUALIFIERS AND DEFINITIONS

**A-01** This analysis does not meet method compliance. See Case Narrative.

**M** The MS and/or MSD were outside of the acceptance limits due to sample matrix interference. See Blank Spike (LCS).

**ND** Analyte NOT DETECTED at or above the reporting limit

**NR** Not reported.

**RPD** Relative Percent Difference

Julie M. Slocum
Project Manager



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# ADDITIONAL ANALYSIS REQUEST FORM

Today's Date: 10/25/00 DMA Project Manager: Julie Slocum
Request via: X telephone ____ chain of custody form ____ fax transmission ____ E-mail ____ other
Client: LAW Contact: Jim Clarke
Project: PJ10314 South MS2
Date Sampled: 10/[illegible] Date Received: ____
Status: ____ in progress ____ completed ____ received today ____ received yesterday ____ on hold ____ other

| SAMPLE NUMBER | SAMPLE DESCRIPTION | ANALYSIS REQUESTED | SPECIAL REQUIREMENTS |
|---|---|---|---|
| PJ10314-01 | MW-3S | Lithium by FLAA | |
| -02 | MW-7D | Lithium by FLAA | |
| -03 | MW-2D | Lithium by FLAA | |
| -04 | MW-10D | Lithium by FLAA | |
| | | | |
| | | | |
| | | | |
| | | | |
| Use digest from PJ10314 | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

TURNAROUND: ___ SAME DAY X 24 HR. ___ 48 HR. ___ 3 DAY ___ 5 DAY ___ STND X NO RUSH CHARGES

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# CHAIN OF CUSTODY FORM



Client Name/Address: Law Engineering

Project/PO Number: 70211-0-0150-2-2.2 S. Mesa WQARF Study

Project Manager: Jim Clarke

Phone Number: (602) 437-0250

Sampler: Wayne Bushnell

Fax Number: (602) 437-3675

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date | Sampling Time | Preservatives | Method 8260 Full | Metals (Tulie) | Special Instructions |
|---|---|---|---|---|---|---|---|---|---|
| MW-35 | | | | 9/20/00 | 8:30am | | X | X | PJJ0314-01 / PJJ0419-01 |
| MW-7D | | | | 9/20/00 | 9:45am | | X | X | -02 / -02 |
| MW-2D | | | | 9/20/00 | 10:30am | | X | X | -03 / -03 |
| MW-10D | | | | 9/20/00 | 3:15pm | | X | X | -04 / -04 |
| ~~Kary Env.~~ | | | | ~~9/20/00~~ | | | | | |
| TRIP BLANK | | | 1 | " | " | | X | | -05 |

Relinquished By: WBC Date/Time: 9/20/00 12 noon Received by: Date/Time: 9/20/00

Relinquished By: Date/Time: 9/20/00 Received by: CLD Date/Time:

Relinquished By: CLD Date/Time: Received in Lab by: Date/Time: 9/20/00 1200

Turnaround Time: (Check)
same day ____ 72 hours ____
24 hours ____ 5 days ★ WB
48 hours ____ normal ✓

Sample Integrity: (Check)
Intact ✓ on ice ✓

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

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| | | |
|---|---|---|
| Law Engineering<br>4634 S. 36th Place<br>Phoenix, AZ 85040<br>Attention: Jim Clarke | Client Project ID: Mesa WQARF 70211-0-0150-02-2.2<br>Report Number: PJL0090 | Sampled: 12/07/00<br>Received: 12/07/00<br>Issued: 12/21/00 |

# CASE NARRATIVE

| LABORATORY NUMBER | SAMPLE DESCRIPTION | SAMPLE MATRIX |
|---|---|---|
| PJL0090-01 | MW-3S | Water |
| PJL0090-02 | MW-2D | Water |
| PJL0090-03 | MW-4S | Water |

SAMPLE RECEIPT: Samples were received intact, on ice, and with chain of custody documentation.

HOLDING TIMES: Holding times were met.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: One or more method QC parameter exceeded acceptance limits. See Corrective Action Report.

OBSERVATIONS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

**DEL MAR ANALYTICAL , PHOENIX (AZ0426)**

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: Mesa WQARF 70211-0-0150-02-2.2
Report Number: PJL0090

Sampled: 12/07/00
Received: 12/07/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJL0090-01 (MW-3S - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P0L1908 | 20 | ND | 1 | 12/19/00 | 12/19/00 | |
| Benzene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Bromobenzene | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Bromochloromethane | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Bromodichloromethane | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Bromoform | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Bromomethane | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 2-Butanone (MEK) | EPA 8260B | P0L1908 | 10 | ND | 1 | 12/19/00 | 12/19/00 | |
| n-Butylbenzene | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| sec-Butylbenzene | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| tert-Butylbenzene | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Carbon Disulfide | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Carbon tetrachloride | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Chlorobenzene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Chloroethane | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Chloroform | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Chloromethane | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 2-Chlorotoluene | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 4-Chlorotoluene | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Dibromochloromethane | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Dibromomethane | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,2-Dichlorobenzene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,3-Dichlorobenzene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,4-Dichlorobenzene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Dichlorodifluoromethane | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,1-Dichloroethane | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,2-Dichloroethane | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,1-Dichloroethene | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| cis-1,2-Dichloroethene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| trans-1,2-Dichloroethene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,2-Dichloropropane | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,3-Dichloropropane | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 2,2-Dichloropropane | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,1-Dichloropropene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| cis-1,3-Dichloropropene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| trans-1,3-Dichloropropene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Ethylbenzene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Hexachlorobutadiene | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 2-Hexanone | EPA 8260B | P0L1908 | 10 | ND | 1 | 12/19/00 | 12/19/00 | |
| Iodomethane | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Isopropylbenzene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| p-Isopropyltoluene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: Mesa WQARF 70211-0-0150-02-2.2
Report Number: PJL0090

Sampled: 12/07/00
Received: 12/07/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJL0090-01 (MW-3S - Water)** | | | | | | | | |
| Methylene chloride | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P0L1908 | 10 | ND | 1 | 12/19/00 | 12/19/00 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Naphthalene | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| n-Propylbenzene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Styrene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Tetrachloroethene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Toluene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,1,1-Trichloroethane | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,1,2-Trichloroethane | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Trichloroethene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Trichlorofluoromethane | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,2,3-Trichloropropane | EPA 8260B | P0L1908 | 10 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Vinyl acetate | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Vinyl chloride | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Xylenes, Total | EPA 8260B | P0L1908 | 10 | ND | 1 | 12/19/00 | 12/19/00 | |
| *Surrogate: Dibromofluoromethane (70-160%)* | | | | *109 %* | | | | |
| *Surrogate: Toluene-d8 (75-140%)* | | | | *88.0 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (75-135%)* | | | | *91.2 %* | | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: Mesa WQARF 70211-0-0150-02-2.2
Report Number: PJL0090

Sampled: 12/07/00
Received: 12/07/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJL0090-02 (MW-2D - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P0L1908 | 20 | ND | 1 | 12/19/00 | 12/19/00 | |
| Benzene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Bromobenzene | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Bromochloromethane | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Bromodichloromethane | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Bromoform | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Bromomethane | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 2-Butanone (MEK) | EPA 8260B | P0L1908 | 10 | ND | 1 | 12/19/00 | 12/19/00 | |
| n-Butylbenzene | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| sec-Butylbenzene | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| tert-Butylbenzene | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Carbon Disulfide | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Carbon tetrachloride | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Chlorobenzene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Chloroethane | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Chloroform | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Chloromethane | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 2-Chlorotoluene | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 4-Chlorotoluene | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Dibromochloromethane | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Dibromomethane | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,2-Dichlorobenzene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,3-Dichlorobenzene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,4-Dichlorobenzene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Dichlorodifluoromethane | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,1-Dichloroethane | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,2-Dichloroethane | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,1-Dichloroethene | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| cis-1,2-Dichloroethene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| trans-1,2-Dichloroethene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,2-Dichloropropane | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,3-Dichloropropane | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 2,2-Dichloropropane | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,1-Dichloropropene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| cis-1,3-Dichloropropene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| trans-1,3-Dichloropropene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Ethylbenzene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Hexachlorobutadiene | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 2-Hexanone | EPA 8260B | P0L1908 | 10 | ND | 1 | 12/19/00 | 12/19/00 | |
| Iodomethane | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Isopropylbenzene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| p-Isopropyltoluene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: Mesa WQARF 70211-0-0150-02-2.2
Report Number: PJL0090

Sampled: 12/07/00
Received: 12/07/00

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJL0090-02 (MW-2D - Water)** | | | | | | | | |
| Methylene chloride | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P0L1908 | 10 | ND | 1 | 12/19/00 | 12/19/00 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Naphthalene | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| n-Propylbenzene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Styrene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Tetrachloroethene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Toluene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,1,1-Trichloroethane | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,1,2-Trichloroethane | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Trichloroethene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Trichlorofluoromethane | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,2,3-Trichloropropane | EPA 8260B | P0L1908 | 10 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Vinyl acetate | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Vinyl chloride | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Xylenes, Total | EPA 8260B | P0L1908 | 10 | ND | 1 | 12/19/00 | 12/19/00 | |
| *Surrogate: Dibromofluoromethane (70-160%)* | | | | *106 %* | | | | |
| *Surrogate: Toluene-d8 (75-140%)* | | | | *86.8 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (75-135%)* | | | | *90.0 %* | | | | |

Julie M. Slocum
Project Manager



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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: Mesa WQARF 70211-0-0150-02-2.2
Report Number: PJL0090

Sampled: 12/07/00
Received: 12/07/00

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJL0090-03 (MW-4S - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P0L1908 | 20 | ND | 1 | 12/19/00 | 12/19/00 | |
| Benzene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Bromobenzene | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Bromochloromethane | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Bromodichloromethane | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Bromoform | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Bromomethane | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 2-Butanone (MEK) | EPA 8260B | P0L1908 | 10 | ND | 1 | 12/19/00 | 12/19/00 | |
| n-Butylbenzene | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| sec-Butylbenzene | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| tert-Butylbenzene | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Carbon Disulfide | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Carbon tetrachloride | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Chlorobenzene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Chloroethane | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Chloroform | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Chloromethane | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 2-Chlorotoluene | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 4-Chlorotoluene | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Dibromochloromethane | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Dibromomethane | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,2-Dichlorobenzene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,3-Dichlorobenzene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,4-Dichlorobenzene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Dichlorodifluoromethane | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,1-Dichloroethane | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,2-Dichloroethane | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,1-Dichloroethene | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| cis-1,2-Dichloroethene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| trans-1,2-Dichloroethene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,2-Dichloropropane | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,3-Dichloropropane | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 2,2-Dichloropropane | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,1-Dichloropropene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| cis-1,3-Dichloropropene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| trans-1,3-Dichloropropene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Ethylbenzene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Hexachlorobutadiene | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 2-Hexanone | EPA 8260B | P0L1908 | 10 | ND | 1 | 12/19/00 | 12/19/00 | |
| Iodomethane | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Isopropylbenzene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| p-Isopropyltoluene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: Mesa WQARF 70211-0-0150-02-2.2
Report Number: PJL0090

Sampled: 12/07/00
Received: 12/07/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJL0090-03 (MW-4S - Water)** | | | | | | | | |
| Methylene chloride | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P0L1908 | 10 | ND | 1 | 12/19/00 | 12/19/00 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Naphthalene | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| n-Propylbenzene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Styrene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Tetrachloroethene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Toluene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,1,1-Trichloroethane | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,1,2-Trichloroethane | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Trichloroethene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Trichlorofluoromethane | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,2,3-Trichloropropane | EPA 8260B | P0L1908 | 10 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P0L1908 | 2.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Vinyl acetate | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Vinyl chloride | EPA 8260B | P0L1908 | 5.0 | ND | 1 | 12/19/00 | 12/19/00 | |
| Xylenes, Total | EPA 8260B | P0L1908 | 10 | ND | 1 | 12/19/00 | 12/19/00 | |
| *Surrogate: Dibromofluoromethane (70-160%)* | | | | *108 %* | | | | |
| *Surrogate: Toluene-d8 (75-140%)* | | | | *87.2 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (75-135%)* | | | | *87.6 %* | | | | |

**DEL MAR ANALYTICAL, PHOENIX (AZ0426)**

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: Mesa WQARF 70211-0-0150-02-2.2
Report Number: PJL0090

Sampled: 12/07/00
Received: 12/07/00

## TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJL0090-01 (MW-3S - Water)** | | | | | | | | |
| Aluminum | EPA 200.7 | P0L0802 | 0.50 | ND | 1 | 12/8/00 | 12/11/00 | |
| Antimony | EPA 200.9 | P0L1307 | 0.0040 | ND | 1 | 12/13/00 | 12/19/00 | |
| **Arsenic** | EPA 200.9 | P0L1307 | 0.0030 | **0.0041** | 1 | 12/13/00 | 12/14/00 | |
| **Barium** | EPA 200.7 | P0L0802 | 0.010 | **0.10** | 1 | 12/8/00 | 12/8/00 | |
| Beryllium | EPA 200.9 | P0L1307 | 0.00050 | ND | 1 | 12/13/00 | 12/18/00 | C |
| Cadmium | EPA 200.9 | P0L1307 | 0.00050 | ND | 1 | 12/13/00 | 12/18/00 | |
| **Calcium** | EPA 200.7 | P0L0802 | 2.0 | **130** | 1 | 12/8/00 | 12/8/00 | |
| **Chromium** | EPA 200.9 | P0L1307 | 0.015 | **0.093** | 3.75 | 12/13/00 | 12/15/00 | |
| Cobalt | EPA 200.7 | P0L0802 | 0.050 | ND | 1 | 12/8/00 | 12/8/00 | |
| Copper | EPA 200.7 | P0L0802 | 0.020 | ND | 1 | 12/8/00 | 12/8/00 | |
| **Iron** | EPA 200.7 | P0L0802 | 0.10 | **0.42** | 1 | 12/8/00 | 12/8/00 | |
| Lead | EPA 200.7 | P0L0802 | 0.050 | ND | 1 | 12/8/00 | 12/8/00 | |
| **Magnesium** | EPA 200.7 | P0L0802 | 0.50 | **44** | 1 | 12/8/00 | 12/8/00 | |
| Manganese | EPA 200.7 | P0L0802 | 0.020 | ND | 1 | 12/8/00 | 12/8/00 | |
| Nickel | EPA 200.7 | P0L0802 | 0.050 | ND | 1 | 12/8/00 | 12/8/00 | |
| Lithium | EPA 7430 | P0L1209 | 1.0 | ND | 1 | 12/12/00 | 12/15/00 | L,M |
| Selenium | EPA 200.9 | P0L1307 | 0.0040 | ND | 1 | 12/13/00 | 12/14/00 | C,L |
| **Sodium** | EPA 273.1 | P0L0802 | 5.0 | **250** | 1 | 12/8/00 | 12/12/00 | |
| **Strontium** | EPA 200.7 | P0L0802 | 0.50 | **1.2** | 5 | 12/8/00 | 12/11/00 | |
| Vanadium | EPA 200.7 | P0L0802 | 0.050 | ND | 1 | 12/8/00 | 12/8/00 | |
| Zinc | EPA 200.7 | P0L0802 | 0.050 | ND | 1 | 12/8/00 | 12/8/00 | |
| **Sample ID: PJL0090-01RE1 (MW-3S - Water)** | | | | | | | | |
| Silver | EPA 200.7 | P0L2010 | 0.0050 | ND | 1 | 12/8/00 | 12/20/00 | |

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Project Manager



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Law Engineering
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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: Mesa WQARF 70211-0-0150-02-2.2
Report Number: PJL0090

Sampled: 12/07/00
Received: 12/07/00

# TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJL0090-02 (MW-2D - Water)** | | | | | | | | |
| Aluminum | EPA 200.7 | P0L0802 | 0.50 | ND | 1 | 12/8/00 | 12/8/00 | |
| Antimony | EPA 200.9 | P0L1307 | 0.0040 | ND | 1 | 12/13/00 | 12/19/00 | |
| **Arsenic** | EPA 200.9 | P0L1307 | 0.0030 | **0.0041** | 1 | 12/13/00 | 12/14/00 | |
| **Barium** | EPA 200.7 | P0L0802 | 0.010 | **0.13** | 1 | 12/8/00 | 12/8/00 | |
| Beryllium | EPA 200.9 | P0L1307 | 0.00050 | ND | 1 | 12/13/00 | 12/18/00 | C |
| Cadmium | EPA 200.9 | P0L1307 | 0.00050 | ND | 1 | 12/13/00 | 12/18/00 | |
| **Calcium** | EPA 200.7 | P0L0802 | 2.0 | **150** | 1 | 12/8/00 | 12/8/00 | |
| **Chromium** | EPA 200.9 | P0L1307 | 0.0075 | **0.051** | 1.875 | 12/13/00 | 12/15/00 | |
| Chromium VI | SM3500CR-D | P0L0723 | 0.025 | ND | 1 | 12/7/00 | 12/7/00 | |
| Cobalt | EPA 200.7 | P0L0802 | 0.050 | ND | 1 | 12/8/00 | 12/8/00 | |
| Copper | EPA 200.7 | P0L0802 | 0.020 | ND | 1 | 12/8/00 | 12/8/00 | |
| **Iron** | EPA 200.7 | P0L0802 | 0.10 | **0.47** | 1 | 12/8/00 | 12/8/00 | |
| Lead | EPA 200.7 | P0L0802 | 0.050 | ND | 1 | 12/8/00 | 12/8/00 | |
| **Magnesium** | EPA 200.7 | P0L0802 | 0.50 | **49** | 1 | 12/8/00 | 12/8/00 | |
| Manganese | EPA 200.7 | P0L0802 | 0.020 | ND | 1 | 12/8/00 | 12/8/00 | |
| Nickel | EPA 200.7 | P0L0802 | 0.050 | ND | 1 | 12/8/00 | 12/8/00 | |
| Lithium | EPA 7430 | P0L1209 | 1.0 | ND | 1 | 12/12/00 | 12/15/00 | L |
| Selenium | EPA 200.9 | P0L1307 | 0.0040 | ND | 1 | 12/13/00 | 12/14/00 | C,L |
| **Sodium** | EPA 273.1 | P0L0802 | 5.0 | **340** | 1 | 12/8/00 | 12/12/00 | |
| **Strontium** | EPA 200.7 | P0L0802 | 0.50 | **1.4** | 5 | 12/8/00 | 12/11/00 | |
| Vanadium | EPA 200.7 | P0L0802 | 0.050 | ND | 1 | 12/8/00 | 12/8/00 | |
| Zinc | EPA 200.7 | P0L0802 | 0.050 | ND | 1 | 12/8/00 | 12/8/00 | |
| **Sample ID: PJL0090-02RE1 (MW-2D - Water)** | | | | | | | | |
| Silver | EPA 200.7 | P0L2010 | 0.0050 | ND | 1 | 12/8/00 | 12/20/00 | |

Julie M. Slocum
Project Manager



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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: Mesa WQARF 70211-0-0150-02-2.2
Report Number: PJL0090

Sampled: 12/07/00
Received: 12/07/00

## TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJL0090-03 (MW-4S - Water)** | | | | | | | | |
| Aluminum | EPA 200.7 | P0L0802 | 0.50 | ND | 1 | 12/8/00 | 12/11/00 | |
| Antimony | EPA 200.9 | P0L1307 | 0.0040 | ND | 1 | 12/13/00 | 12/19/00 | |
| **Arsenic** | EPA 200.9 | P0L1307 | 0.0030 | **0.0043** | 1 | 12/13/00 | 12/14/00 | |
| **Barium** | EPA 200.7 | P0L0802 | 0.010 | **0.12** | 1 | 12/8/00 | 12/8/00 | |
| Beryllium | EPA 200.9 | P0L1307 | 0.00050 | ND | 1 | 12/13/00 | 12/18/00 | C |
| Cadmium | EPA 200.9 | P0L1307 | 0.00050 | ND | 1 | 12/13/00 | 12/18/00 | |
| **Calcium** | EPA 200.7 | P0L0802 | 2.0 | **170** | 1 | 12/8/00 | 12/8/00 | |
| **Chromium** | EPA 200.9 | P0L1307 | 0.0075 | **0.048** | 1.875 | 12/13/00 | 12/15/00 | |
| Cobalt | EPA 200.7 | P0L0802 | 0.050 | ND | 1 | 12/8/00 | 12/8/00 | |
| Copper | EPA 200.7 | P0L0802 | 0.020 | ND | 1 | 12/8/00 | 12/8/00 | |
| **Iron** | EPA 200.7 | P0L0802 | 0.10 | **0.77** | 1 | 12/8/00 | 12/8/00 | |
| Lead | EPA 200.7 | P0L0802 | 0.050 | ND | 1 | 12/8/00 | 12/8/00 | |
| **Magnesium** | EPA 200.7 | P0L0802 | 0.50 | **59** | 1 | 12/8/00 | 12/8/00 | |
| **Manganese** | EPA 200.7 | P0L0802 | 0.020 | **0.022** | 1 | 12/8/00 | 12/8/00 | |
| Nickel | EPA 200.7 | P0L0802 | 0.050 | ND | 1 | 12/8/00 | 12/8/00 | |
| Lithium | EPA 7430 | P0L1209 | 1.0 | ND | 1 | 12/12/00 | 12/15/00 | L |
| Selenium | EPA 200.9 | P0L1307 | 0.0040 | ND | 1 | 12/13/00 | 12/19/00 | L |
| **Sodium** | EPA 273.1 | P0L0802 | 5.0 | **350** | 1 | 12/8/00 | 12/12/00 | |
| **Strontium** | EPA 200.7 | P0L0802 | 0.50 | **1.7** | 5 | 12/8/00 | 12/11/00 | |
| Vanadium | EPA 200.7 | P0L0802 | 0.050 | ND | 1 | 12/8/00 | 12/8/00 | |
| Zinc | EPA 200.7 | P0L0802 | 0.050 | ND | 1 | 12/8/00 | 12/8/00 | |
| **Sample ID: PJL0090-03RE1 (MW-4S - Water)** | | | | | | | | |
| Silver | EPA 200.7 | P0L2010 | 0.0050 | ND | 1 | 12/8/00 | 12/20/00 | |

**DEL MAR ANALYTICAL, PHOENIX (AZ0426)**

Julie M. Slocum
Project Manager



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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: Mesa WQARF 70211-0-0150-02-2.2
Report Number: PJL0090

Sampled: 12/07/00
Received: 12/07/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L1908 Extracted: 12/19/00** | | | | | | | | | | |
| **Blank Analyzed: 12/19/00 (P0L1908-BLK1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | |
| Benzene | ND | 2.0 | ug/l | | | | | | | |
| Bromobenzene | ND | 5.0 | ug/l | | | | | | | |
| Bromochloromethane | ND | 5.0 | ug/l | | | | | | | |
| Bromodichloromethane | ND | 2.0 | ug/l | | | | | | | |
| Bromoform | ND | 5.0 | ug/l | | | | | | | |
| Bromomethane | ND | 5.0 | ug/l | | | | | | | |
| 2-Butanone (MEK) | ND | 10 | ug/l | | | | | | | |
| n-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| sec-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| tert-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| Carbon Disulfide | ND | 5.0 | ug/l | | | | | | | |
| Carbon tetrachloride | ND | 5.0 | ug/l | | | | | | | |
| Chlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| Chloroethane | ND | 5.0 | ug/l | | | | | | | |
| Chloroform | ND | 2.0 | ug/l | | | | | | | |
| Chloromethane | ND | 5.0 | ug/l | | | | | | | |
| 2-Chlorotoluene | ND | 5.0 | ug/l | | | | | | | |
| 4-Chlorotoluene | ND | 5.0 | ug/l | | | | | | | |
| Dibromochloromethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/l | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 2.0 | ug/l | | | | | | | |
| Dibromomethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| Dichlorodifluoromethane | ND | 5.0 | ug/l | | | | | | | |
| 1,1-Dichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,1-Dichloroethene | ND | 5.0 | ug/l | | | | | | | |

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: Mesa WQARF 70211-0-0150-02-2.2
Report Number: PJL0090

Sampled: 12/07/00
Received: 12/07/00

METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L1908 Extracted: 12/19/00** | | | | | | | | | | |
| **Blank Analyzed: 12/19/00 (P0L1908-BLK1)** | | | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 2.0 | ug/l | | | | | | | |
| trans-1,2-Dichloroethene | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,3-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 2,2-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,1-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| cis-1,3-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| Ethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 5.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 10 | ug/l | | | | | | | |
| Iodomethane | ND | 2.0 | ug/l | | | | | | | |
| Isopropylbenzene | ND | 2.0 | ug/l | | | | | | | |
| p-Isopropyltoluene | ND | 2.0 | ug/l | | | | | | | |
| Methylene chloride | ND | 5.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 5.0 | ug/l | | | | | | | |
| Naphthalene | ND | 5.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Styrene | ND | 2.0 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/l | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 2.0 | ug/l | | | | | | | |
| Toluene | ND | 2.0 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 5.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,1,2-Trichloroethane | ND | 2.0 | ug/l | | | | | | | |
| Trichloroethene | ND | 2.0 | ug/l | | | | | | | |
| Trichlorofluoromethane | ND | 5.0 | ug/l | | | | | | | |

Julie M. Slocum
Project Manager



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METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L1908 Extracted: 12/19/00** | | | | | | | | | | |
| **Blank Analyzed: 12/19/00 (P0L1908-BLK1)** | | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 10 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Vinyl acetate | ND | 5.0 | ug/l | | | | | | | |
| Vinyl chloride | ND | 5.0 | ug/l | | | | | | | |
| Xylenes, Total | ND | 10 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *25.2* | | *ug/l* | *25.0* | | *101* | *70-160* | | | |
| *Surrogate: Toluene-d8* | *22.7* | | *ug/l* | *25.0* | | *90.8* | *75-140* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *21.5* | | *ug/l* | *25.0* | | *86.0* | *75-135* | | | |
| **LCS Analyzed: 12/19/00 (P0L1908-BS1)** | | | | | | | | | | |
| **Acetone** | **30.1** | 20 | ug/l | 25.0 | | 120 | 35-150 | | | |
| **Benzene** | **25.7** | 2.0 | ug/l | 25.0 | | 103 | 75-120 | | | |
| **Bromobenzene** | **23.4** | 5.0 | ug/l | 25.0 | | 93.6 | 65-150 | | | |
| **Bromochloromethane** | **26.1** | 5.0 | ug/l | 25.0 | | 104 | 60-155 | | | |
| **Bromodichloromethane** | **26.7** | 2.0 | ug/l | 25.0 | | 107 | 60-155 | | | |
| **Bromoform** | **19.7** | 5.0 | ug/l | 25.0 | | 78.8 | 25-160 | | | |
| **Bromomethane** | **29.5** | 5.0 | ug/l | 25.0 | | 118 | 55-170 | | | |
| **2-Butanone (MEK)** | **22.4** | 10 | ug/l | 25.0 | | 89.6 | 35-165 | | | |
| **n-Butylbenzene** | **25.1** | 5.0 | ug/l | 25.0 | | 100 | 65-140 | | | |
| **sec-Butylbenzene** | **23.9** | 5.0 | ug/l | 25.0 | | 95.6 | 60-145 | | | |
| **tert-Butylbenzene** | **23.0** | 5.0 | ug/l | 25.0 | | 92.0 | 65-145 | | | |
| **Carbon Disulfide** | **27.4** | 5.0 | ug/l | 25.0 | | 110 | 65-155 | | | |
| **Carbon tetrachloride** | **26.3** | 5.0 | ug/l | 25.0 | | 105 | 65-150 | | | |
| **Chlorobenzene** | **20.7** | 2.0 | ug/l | 25.0 | | 82.8 | 75-130 | | | |
| **Chloroethane** | **31.3** | 5.0 | ug/l | 25.0 | | 125 | 65-165 | | | |
| **Chloroform** | **27.6** | 2.0 | ug/l | 25.0 | | 110 | 70-130 | | | |
| **Chloromethane** | **24.5** | 5.0 | ug/l | 25.0 | | 98.0 | 60-165 | | | |
| **2-Chlorotoluene** | **22.8** | 5.0 | ug/l | 25.0 | | 91.2 | 65-145 | | | |
| **4-Chlorotoluene** | **22.5** | 5.0 | ug/l | 25.0 | | 90.0 | 70-145 | | | |
| **Dibromochloromethane** | **21.7** | 2.0 | ug/l | 25.0 | | 86.8 | 55-155 | | | |

Julie M. Slocum
Project Manager



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Report Number: PJL0090

Sampled: 12/07/00
Received: 12/07/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L1908 Extracted: 12/19/00** | | | | | | | | | | |
| **LCS Analyzed: 12/19/00 (P0L1908-BS1)** | | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | 22.8 | 5.0 | ug/l | 25.0 | | 91.2 | 40-150 | | | |
| 1,2-Dibromoethane (EDB) | 20.1 | 2.0 | ug/l | 25.0 | | 80.4 | 55-155 | | | |
| Dibromomethane | 25.5 | 2.0 | ug/l | 25.0 | | 102 | 60-155 | | | |
| 1,2-Dichlorobenzene | 23.5 | 2.0 | ug/l | 25.0 | | 94.0 | 65-140 | | | |
| 1,3-Dichlorobenzene | 23.7 | 2.0 | ug/l | 25.0 | | 94.8 | 65-145 | | | |
| 1,4-Dichlorobenzene | 23.7 | 2.0 | ug/l | 25.0 | | 94.8 | 65-140 | | | |
| Dichlorodifluoromethane | 21.1 | 5.0 | ug/l | 25.0 | | 84.4 | 30-190 | | | |
| 1,1-Dichloroethane | 28.7 | 2.0 | ug/l | 25.0 | | 115 | 70-130 | | | |
| 1,2-Dichloroethane | 28.5 | 2.0 | ug/l | 25.0 | | 114 | 70-130 | | | |
| 1,1-Dichloroethene | 27.1 | 5.0 | ug/l | 25.0 | | 108 | 75-125 | | | |
| cis-1,2-Dichloroethene | 27.2 | 2.0 | ug/l | 25.0 | | 109 | 70-130 | | | |
| trans-1,2-Dichloroethene | 26.8 | 2.0 | ug/l | 25.0 | | 107 | 55-175 | | | |
| 1,2-Dichloropropane | 25.6 | 2.0 | ug/l | 25.0 | | 102 | 70-130 | | | |
| 1,3-Dichloropropane | 22.9 | 2.0 | ug/l | 25.0 | | 91.6 | 60-150 | | | |
| 2,2-Dichloropropane | 27.4 | 2.0 | ug/l | 25.0 | | 110 | 15-200 | | | |
| 1,1-Dichloropropene | 26.8 | 2.0 | ug/l | 25.0 | | 107 | 65-150 | | | |
| cis-1,3-Dichloropropene | 26.0 | 2.0 | ug/l | 25.0 | | 104 | 65-150 | | | |
| trans-1,3-Dichloropropene | 22.1 | 2.0 | ug/l | 25.0 | | 88.4 | 60-150 | | | |
| Ethylbenzene | 21.5 | 2.0 | ug/l | 25.0 | | 86.0 | 60-150 | | | |
| Hexachlorobutadiene | 23.0 | 5.0 | ug/l | 25.0 | | 92.0 | 55-150 | | | |
| 2-Hexanone | 19.3 | 10 | ug/l | 25.0 | | 77.2 | 35-165 | | | |
| Iodomethane | 27.3 | 2.0 | ug/l | 25.0 | | 109 | 65-160 | | | |
| Isopropylbenzene | 21.7 | 2.0 | ug/l | 25.0 | | 86.8 | 65-145 | | | |
| p-Isopropyltoluene | 23.5 | 2.0 | ug/l | 25.0 | | 94.0 | 60-145 | | | |
| Methylene chloride | 28.1 | 5.0 | ug/l | 25.0 | | 112 | 65-160 | | | |
| 4-Methyl-2-pentanone (MIBK) | 24.3 | 10 | ug/l | 25.0 | | 97.2 | 40-165 | | | |
| Methyl-tert-butyl Ether (MTBE) | 25.8 | 5.0 | ug/l | 25.0 | | 103 | 60-160 | | | |
| Naphthalene | 20.4 | 5.0 | ug/l | 25.0 | | 81.6 | 50-150 | | | |
| n-Propylbenzene | 24.7 | 2.0 | ug/l | 25.0 | | 98.8 | 70-145 | | | |
| Styrene | 21.6 | 2.0 | ug/l | 25.0 | | 86.4 | 65-150 | | | |
| 1,1,1,2-Tetrachloroethane | 21.4 | 5.0 | ug/l | 25.0 | | 85.6 | 60-155 | | | |

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Sampled: 12/07/00
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METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L1908 Extracted: 12/19/00** | | | | | | | | | | |
| **LCS Analyzed: 12/19/00 (P0L1908-BS1)** | | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | 23.2 | 2.0 | ug/l | 25.0 | | 92.8 | 65-150 | | | |
| Tetrachloroethene | 21.1 | 2.0 | ug/l | 25.0 | | 84.4 | 70-130 | | | |
| Toluene | 22.6 | 2.0 | ug/l | 25.0 | | 90.4 | 70-125 | | | |
| 1,2,3-Trichlorobenzene | 21.0 | 5.0 | ug/l | 25.0 | | 84.0 | 55-150 | | | |
| 1,2,4-Trichlorobenzene | 21.8 | 5.0 | ug/l | 25.0 | | 87.2 | 60-145 | | | |
| 1,1,1-Trichloroethane | 26.1 | 2.0 | ug/l | 25.0 | | 104 | 70-130 | | | |
| 1,1,2-Trichloroethane | 21.0 | 2.0 | ug/l | 25.0 | | 84.0 | 70-130 | | | |
| Trichloroethene | 25.1 | 2.0 | ug/l | 25.0 | | 100 | 75-120 | | | |
| Trichlorofluoromethane | 29.1 | 5.0 | ug/l | 25.0 | | 116 | 10-200 | | | |
| 1,2,3-Trichloropropane | 21.8 | 10 | ug/l | 25.0 | | 87.2 | 55-150 | | | |
| 1,2,4-Trimethylbenzene | 24.0 | 2.0 | ug/l | 25.0 | | 96.0 | 65-150 | | | |
| 1,3,5-Trimethylbenzene | 23.9 | 2.0 | ug/l | 25.0 | | 95.6 | 65-150 | | | |
| Vinyl acetate | 27.4 | 5.0 | ug/l | 25.0 | | 110 | 50-160 | | | |
| Vinyl chloride | 25.3 | 5.0 | ug/l | 25.0 | | 101 | 25-200 | | | |
| Xylenes, Total | 64.5 | 10 | ug/l | 75.0 | | 86.0 | 65-145 | | | |
| *Surrogate: Dibromofluoromethane* | *25.8* | | *ug/l* | *25.0* | | *103* | *70-160* | | | |
| *Surrogate: Toluene-d8* | *22.4* | | *ug/l* | *25.0* | | *89.6* | *75-140* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *22.3* | | *ug/l* | *25.0* | | *89.2* | *75-135* | | | |
| **LCS Dup Analyzed: 12/19/00 (P0L1908-BSD1)** | | | | | | | | | | |
| Acetone | 29.4 | 20 | ug/l | 25.0 | | 118 | 35-150 | 2.35 | 20 | |
| Benzene | 25.8 | 2.0 | ug/l | 25.0 | | 103 | 75-120 | 0.388 | 20 | |
| Bromobenzene | 23.0 | 5.0 | ug/l | 25.0 | | 92.0 | 65-150 | 1.72 | 20 | |
| Bromochloromethane | 26.5 | 5.0 | ug/l | 25.0 | | 106 | 60-155 | 1.52 | 20 | |
| Bromodichloromethane | 26.8 | 2.0 | ug/l | 25.0 | | 107 | 60-155 | 0.374 | 20 | |
| Bromoform | 20.7 | 5.0 | ug/l | 25.0 | | 82.8 | 25-160 | 4.95 | 20 | |
| Bromomethane | 31.8 | 5.0 | ug/l | 25.0 | | 127 | 55-170 | 7.50 | 20 | |
| 2-Butanone (MEK) | 29.8 | 10 | ug/l | 25.0 | | 119 | 35-165 | 28.4 | 20 | R2 |
| n-Butylbenzene | 25.2 | 5.0 | ug/l | 25.0 | | 101 | 65-140 | 0.398 | 20 | |
| sec-Butylbenzene | 23.9 | 5.0 | ug/l | 25.0 | | 95.6 | 60-145 | 0 | 20 | |
| tert-Butylbenzene | 22.8 | 5.0 | ug/l | 25.0 | | 91.2 | 65-145 | 0.873 | 20 | |

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METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L1908 Extracted: 12/19/00** | | | | | | | | | | |
| **LCS Dup Analyzed: 12/19/00 (P0L1908-BSD1)** | | | | | | | | | | |
| Carbon Disulfide | 27.3 | 5.0 | ug/l | 25.0 | | 109 | 65-155 | 0.366 | 20 | |
| Carbon tetrachloride | 26.7 | 5.0 | ug/l | 25.0 | | 107 | 65-150 | 1.51 | 20 | |
| Chlorobenzene | 21.4 | 2.0 | ug/l | 25.0 | | 85.6 | 75-130 | 3.33 | 20 | |
| Chloroethane | 31.7 | 5.0 | ug/l | 25.0 | | 127 | 65-165 | 1.27 | 20 | |
| Chloroform | 27.7 | 2.0 | ug/l | 25.0 | | 111 | 70-130 | 0.362 | 20 | |
| Chloromethane | 24.3 | 5.0 | ug/l | 25.0 | | 97.2 | 60-165 | 0.820 | 20 | |
| 2-Chlorotoluene | 22.4 | 5.0 | ug/l | 25.0 | | 89.6 | 65-145 | 1.77 | 20 | |
| 4-Chlorotoluene | 22.2 | 5.0 | ug/l | 25.0 | | 88.8 | 70-145 | 1.34 | 20 | |
| Dibromochloromethane | 22.9 | 2.0 | ug/l | 25.0 | | 91.6 | 55-155 | 5.38 | 20 | |
| 1,2-Dibromo-3-chloropropane | 25.2 | 5.0 | ug/l | 25.0 | | 101 | 40-150 | 10.0 | 20 | |
| 1,2-Dibromoethane (EDB) | 21.9 | 2.0 | ug/l | 25.0 | | 87.6 | 55-155 | 8.57 | 20 | |
| Dibromomethane | 26.1 | 2.0 | ug/l | 25.0 | | 104 | 60-155 | 2.33 | 20 | |
| 1,2-Dichlorobenzene | 23.7 | 2.0 | ug/l | 25.0 | | 94.8 | 65-140 | 0.847 | 20 | |
| 1,3-Dichlorobenzene | 23.6 | 2.0 | ug/l | 25.0 | | 94.4 | 65-145 | 0.423 | 20 | |
| 1,4-Dichlorobenzene | 23.6 | 2.0 | ug/l | 25.0 | | 94.4 | 65-140 | 0.423 | 20 | |
| Dichlorodifluoromethane | 22.6 | 5.0 | ug/l | 25.0 | | 90.4 | 30-190 | 6.86 | 20 | |
| 1,1-Dichloroethane | 28.8 | 2.0 | ug/l | 25.0 | | 115 | 70-130 | 0.348 | 20 | |
| 1,2-Dichloroethane | 29.7 | 2.0 | ug/l | 25.0 | | 119 | 70-130 | 4.12 | 20 | |
| 1,1-Dichloroethene | 26.9 | 5.0 | ug/l | 25.0 | | 108 | 75-125 | 0.741 | 20 | |
| cis-1,2-Dichloroethene | 27.0 | 2.0 | ug/l | 25.0 | | 108 | 70-130 | 0.738 | 20 | |
| trans-1,2-Dichloroethene | 26.7 | 2.0 | ug/l | 25.0 | | 107 | 55-175 | 0.374 | 20 | |
| 1,2-Dichloropropane | 25.6 | 2.0 | ug/l | 25.0 | | 102 | 70-130 | 0 | 20 | |
| 1,3-Dichloropropane | 24.1 | 2.0 | ug/l | 25.0 | | 96.4 | 60-150 | 5.11 | 20 | |
| 2,2-Dichloropropane | 28.0 | 2.0 | ug/l | 25.0 | | 112 | 15-200 | 2.17 | 20 | |
| 1,1-Dichloropropene | 27.2 | 2.0 | ug/l | 25.0 | | 109 | 65-150 | 1.48 | 20 | |
| cis-1,3-Dichloropropene | 25.9 | 2.0 | ug/l | 25.0 | | 104 | 65-150 | 0.385 | 20 | |
| trans-1,3-Dichloropropene | 23.5 | 2.0 | ug/l | 25.0 | | 94.0 | 60-150 | 6.14 | 20 | |
| Ethylbenzene | 21.7 | 2.0 | ug/l | 25.0 | | 86.8 | 60-150 | 0.926 | 20 | |
| Hexachlorobutadiene | 25.2 | 5.0 | ug/l | 25.0 | | 101 | 55-150 | 9.13 | 20 | |
| 2-Hexanone | 22.1 | 10 | ug/l | 25.0 | | 88.4 | 35-165 | 13.5 | 20 | |
| Iodomethane | 28.3 | 2.0 | ug/l | 25.0 | | 113 | 65-160 | 3.60 | 20 | |

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: Mesa WQARF 70211-0-0150-02-2.2

Report Number: PJL0090

Sampled: 12/07/00
Received: 12/07/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L1908 Extracted: 12/19/00** | | | | | | | | | | |
| **LCS Dup Analyzed: 12/19/00 (P0L1908-BSD1)** | | | | | | | | | | |
| **Isopropylbenzene** | **21.9** | 2.0 | ug/l | 25.0 | | 87.6 | 65-145 | 0.917 | 20 | |
| **p-Isopropyltoluene** | **23.0** | 2.0 | ug/l | 25.0 | | 92.0 | 60-145 | 2.15 | 20 | |
| **Methylene chloride** | **28.2** | 5.0 | ug/l | 25.0 | | 113 | 65-160 | 0.355 | 20 | |
| **4-Methyl-2-pentanone (MIBK)** | **26.7** | 10 | ug/l | 25.0 | | 107 | 40-165 | 9.41 | 20 | |
| **Methyl-tert-butyl Ether (MTBE)** | **26.9** | 5.0 | ug/l | 25.0 | | 108 | 60-160 | 4.17 | 20 | |
| **Naphthalene** | **23.7** | 5.0 | ug/l | 25.0 | | 94.8 | 50-150 | 15.0 | 20 | |
| **n-Propylbenzene** | **24.4** | 2.0 | ug/l | 25.0 | | 97.6 | 70-145 | 1.22 | 20 | |
| **Styrene** | **21.7** | 2.0 | ug/l | 25.0 | | 86.8 | 65-150 | 0.462 | 20 | |
| **1,1,1,2-Tetrachloroethane** | **22.1** | 5.0 | ug/l | 25.0 | | 88.4 | 60-155 | 3.22 | 20 | |
| **1,1,2,2-Tetrachloroethane** | **24.8** | 2.0 | ug/l | 25.0 | | 99.2 | 65-150 | 6.67 | 20 | |
| **Tetrachloroethene** | **21.5** | 2.0 | ug/l | 25.0 | | 86.0 | 70-130 | 1.88 | 20 | |
| **Toluene** | **22.9** | 2.0 | ug/l | 25.0 | | 91.6 | 70-125 | 1.32 | 20 | |
| **1,2,3-Trichlorobenzene** | **23.8** | 5.0 | ug/l | 25.0 | | 95.2 | 55-150 | 12.5 | 20 | |
| **1,2,4-Trichlorobenzene** | **23.5** | 5.0 | ug/l | 25.0 | | 94.0 | 60-145 | 7.51 | 20 | |
| **1,1,1-Trichloroethane** | **26.1** | 2.0 | ug/l | 25.0 | | 104 | 70-130 | 0 | 20 | |
| **1,1,2-Trichloroethane** | **22.5** | 2.0 | ug/l | 25.0 | | 90.0 | 70-130 | 6.90 | 20 | |
| **Trichloroethene** | **24.9** | 2.0 | ug/l | 25.0 | | 99.6 | 75-120 | 0.800 | 20 | |
| **Trichlorofluoromethane** | **29.1** | 5.0 | ug/l | 25.0 | | 116 | 10-200 | 0 | 20 | |
| **1,2,3-Trichloropropane** | **23.7** | 10 | ug/l | 25.0 | | 94.8 | 55-150 | 8.35 | 20 | |
| **1,2,4-Trimethylbenzene** | **23.8** | 2.0 | ug/l | 25.0 | | 95.2 | 65-150 | 0.837 | 20 | |
| **1,3,5-Trimethylbenzene** | **23.7** | 2.0 | ug/l | 25.0 | | 94.8 | 65-150 | 0.840 | 20 | |
| **Vinyl acetate** | **28.4** | 5.0 | ug/l | 25.0 | | 114 | 50-160 | 3.58 | 20 | |
| **Vinyl chloride** | **26.0** | 5.0 | ug/l | 25.0 | | 104 | 25-200 | 2.73 | 20 | |
| **Xylenes, Total** | **64.7** | 10 | ug/l | 75.0 | | 86.3 | 65-145 | 0.310 | 20 | |
| *Surrogate: Dibromofluoromethane* | *25.7* | | *ug/l* | *25.0* | | *103* | *70-160* | | | |
| *Surrogate: Toluene-d8* | *22.6* | | *ug/l* | *25.0* | | *90.4* | *75-140* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *21.5* | | *ug/l* | *25.0* | | *86.0* | *75-135* | | | |

Julie M. Slocum
Project Manager



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Attention: Jim Clarke

Client Project ID: Mesa WQARF 70211-0-0150-02-2.2
Report Number: PJL0090

Sampled: 12/07/00
Received: 12/07/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L1908 Extracted: 12/19/00** | | | | | | | | | | |
| **Matrix Spike Analyzed: 12/20/00 (P0L1908-MS1)** | | | | | **Source: PJL0090-01** | | | | | |
| **Acetone** | **28.6** | 20 | ug/l | 25.0 | ND | 114 | 35-150 | | | |
| **Benzene** | **26.8** | 2.0 | ug/l | 25.0 | ND | 107 | 75-120 | | | |
| **Bromobenzene** | **22.5** | 5.0 | ug/l | 25.0 | ND | 90.0 | 65-150 | | | |
| **Bromochloromethane** | **27.2** | 5.0 | ug/l | 25.0 | ND | 109 | 60-155 | | | |
| **Bromodichloromethane** | **27.1** | 2.0 | ug/l | 25.0 | ND | 108 | 60-155 | | | |
| **Bromoform** | **19.5** | 5.0 | ug/l | 25.0 | ND | 78.0 | 25-160 | | | |
| **Bromomethane** | **30.6** | 5.0 | ug/l | 25.0 | ND | 122 | 55-170 | | | |
| **2-Butanone (MEK)** | **30.5** | 10 | ug/l | 25.0 | ND | 122 | 35-165 | | | |
| **n-Butylbenzene** | **24.8** | 5.0 | ug/l | 25.0 | ND | 99.2 | 65-140 | | | |
| **sec-Butylbenzene** | **23.1** | 5.0 | ug/l | 25.0 | ND | 92.4 | 60-145 | | | |
| **tert-Butylbenzene** | **22.3** | 5.0 | ug/l | 25.0 | ND | 89.2 | 65-145 | | | |
| **Carbon Disulfide** | **28.7** | 5.0 | ug/l | 25.0 | ND | 115 | 65-155 | | | |
| **Carbon tetrachloride** | **25.1** | 5.0 | ug/l | 25.0 | ND | 100 | 65-150 | | | |
| **Chlorobenzene** | **21.0** | 2.0 | ug/l | 25.0 | ND | 84.0 | 75-130 | | | |
| **Chloroethane** | **32.3** | 5.0 | ug/l | 25.0 | ND | 129 | 65-165 | | | |
| **Chloroform** | **29.6** | 2.0 | ug/l | 25.0 | ND | 118 | 70-130 | | | |
| **Chloromethane** | **26.4** | 5.0 | ug/l | 25.0 | ND | 106 | 60-165 | | | |
| **2-Chlorotoluene** | **23.0** | 5.0 | ug/l | 25.0 | ND | 92.0 | 65-145 | | | |
| **4-Chlorotoluene** | **22.0** | 5.0 | ug/l | 25.0 | ND | 88.0 | 70-145 | | | |
| **Dibromochloromethane** | **21.8** | 2.0 | ug/l | 25.0 | ND | 87.2 | 55-155 | | | |
| **1,2-Dibromo-3-chloropropane** | **25.5** | 5.0 | ug/l | 25.0 | ND | 102 | 40-150 | | | |
| **1,2-Dibromoethane (EDB)** | **21.0** | 2.0 | ug/l | 25.0 | ND | 84.0 | 55-155 | | | |
| **Dibromomethane** | **27.0** | 2.0 | ug/l | 25.0 | ND | 108 | 60-155 | | | |
| **1,2-Dichlorobenzene** | **23.5** | 2.0 | ug/l | 25.0 | ND | 94.0 | 65-140 | | | |
| **1,3-Dichlorobenzene** | **23.1** | 2.0 | ug/l | 25.0 | ND | 92.4 | 65-145 | | | |
| **1,4-Dichlorobenzene** | **23.5** | 2.0 | ug/l | 25.0 | ND | 94.0 | 65-140 | | | |
| **Dichlorodifluoromethane** | **23.7** | 5.0 | ug/l | 25.0 | ND | 94.8 | 30-190 | | | |
| **1,1-Dichloroethane** | **30.2** | 2.0 | ug/l | 25.0 | ND | 121 | 70-130 | | | |
| **1,2-Dichloroethane** | **29.1** | 2.0 | ug/l | 25.0 | ND | 116 | 70-130 | | | |
| **1,1-Dichloroethene** | **26.3** | 5.0 | ug/l | 25.0 | ND | 105 | 65-135 | | | |
| **cis-1,2-Dichloroethene** | **28.3** | 2.0 | ug/l | 25.0 | ND | 113 | 70-130 | | | |

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Attention: Jim Clarke

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Report Number: PJL0090

Sampled: 12/07/00
Received: 12/07/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L1908 Extracted: 12/19/00** | | | | | | | | | | |
| **Matrix Spike Analyzed: 12/20/00 (P0L1908-MS1)** | | | | | **Source: PJL0090-01** | | | | | |
| trans-1,2-Dichloroethene | 26.7 | 2.0 | ug/l | 25.0 | ND | 107 | 55-175 | | | |
| 1,2-Dichloropropane | 27.2 | 2.0 | ug/l | 25.0 | ND | 109 | 70-130 | | | |
| 1,3-Dichloropropane | 24.4 | 2.0 | ug/l | 25.0 | ND | 97.6 | 60-150 | | | |
| 2,2-Dichloropropane | 24.6 | 2.0 | ug/l | 25.0 | ND | 98.4 | 15-200 | | | |
| 1,1-Dichloropropene | 27.9 | 2.0 | ug/l | 25.0 | ND | 112 | 65-150 | | | |
| cis-1,3-Dichloropropene | 25.4 | 2.0 | ug/l | 25.0 | ND | 102 | 65-150 | | | |
| trans-1,3-Dichloropropene | 22.0 | 2.0 | ug/l | 25.0 | ND | 88.0 | 60-150 | | | |
| Ethylbenzene | 20.9 | 2.0 | ug/l | 25.0 | ND | 83.6 | 60-150 | | | |
| Hexachlorobutadiene | 21.7 | 5.0 | ug/l | 25.0 | ND | 86.8 | 55-150 | | | |
| 2-Hexanone | 21.0 | 10 | ug/l | 25.0 | ND | 84.0 | 35-165 | | | |
| Iodomethane | 29.3 | 2.0 | ug/l | 25.0 | ND | 117 | 65-160 | | | |
| Isopropylbenzene | 20.9 | 2.0 | ug/l | 25.0 | ND | 83.6 | 65-145 | | | |
| p-Isopropyltoluene | 21.7 | 2.0 | ug/l | 25.0 | ND | 86.8 | 60-145 | | | |
| Methylene chloride | 29.8 | 5.0 | ug/l | 25.0 | ND | 119 | 65-160 | | | |
| 4-Methyl-2-pentanone (MIBK) | 26.3 | 10 | ug/l | 25.0 | ND | 105 | 40-165 | | | |
| Methyl-tert-butyl Ether (MTBE) | 28.6 | 5.0 | ug/l | 25.0 | ND | 114 | 60-160 | | | |
| Naphthalene | 21.0 | 5.0 | ug/l | 25.0 | ND | 84.0 | 50-150 | | | |
| n-Propylbenzene | 24.3 | 2.0 | ug/l | 25.0 | ND | 97.2 | 70-145 | | | |
| Styrene | 4.84 | 2.0 | ug/l | 25.0 | ND | 19.4 | 65-150 | | | M2 |
| 1,1,1,2-Tetrachloroethane | 21.1 | 5.0 | ug/l | 25.0 | ND | 84.4 | 60-155 | | | |
| 1,1,2,2-Tetrachloroethane | 26.1 | 2.0 | ug/l | 25.0 | ND | 104 | 65-150 | | | |
| Tetrachloroethene | 20.5 | 2.0 | ug/l | 25.0 | ND | 82.0 | 70-130 | | | |
| Toluene | 22.4 | 2.0 | ug/l | 25.0 | ND | 89.6 | 70-125 | | | |
| 1,2,3-Trichlorobenzene | 23.2 | 5.0 | ug/l | 25.0 | ND | 92.8 | 55-150 | | | |
| 1,2,4-Trichlorobenzene | 22.1 | 5.0 | ug/l | 25.0 | ND | 88.4 | 60-145 | | | |
| 1,1,1-Trichloroethane | 26.0 | 2.0 | ug/l | 25.0 | ND | 104 | 70-130 | | | |
| 1,1,2-Trichloroethane | 22.2 | 2.0 | ug/l | 25.0 | ND | 88.8 | 70-130 | | | |
| Trichloroethene | 25.4 | 2.0 | ug/l | 25.0 | ND | 102 | 75-120 | | | |
| Trichlorofluoromethane | 29.5 | 5.0 | ug/l | 25.0 | ND | 118 | 10-200 | | | |
| 1,2,3-Trichloropropane | 22.6 | 10 | ug/l | 25.0 | ND | 90.4 | 55-150 | | | |
| 1,2,4-Trimethylbenzene | 17.0 | 2.0 | ug/l | 25.0 | ND | 68.0 | 65-150 | | | |

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Report Number: PJL0090

Sampled: 12/07/00
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METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L1908 Extracted: 12/19/00** | | | | | | | | | | |
| **Matrix Spike Analyzed: 12/20/00 (P0L1908-MS1)** | | | | | Source: PJL0090-01 | | | | | |
| **1,3,5-Trimethylbenzene** | **21.1** | 2.0 | ug/l | 25.0 | ND | 84.4 | 65-150 | | | |
| **Vinyl acetate** | **13.4** | 5.0 | ug/l | 25.0 | ND | 53.6 | 50-160 | | | |
| **Vinyl chloride** | **27.8** | 5.0 | ug/l | 25.0 | ND | 111 | 25-200 | | | |
| **Xylenes, Total** | **60.4** | 10 | ug/l | 75.0 | ND | 80.5 | 65-145 | | | |
| *Surrogate: Dibromofluoromethane* | *26.7* | | *ug/l* | *25.0* | | *107* | *70-160* | | | |
| *Surrogate: Toluene-d8* | *22.2* | | *ug/l* | *25.0* | | *88.8* | *75-140* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *20.7* | | *ug/l* | *25.0* | | *82.8* | *75-135* | | | |
| **Matrix Spike Dup Analyzed: 12/20/00 (P0L1908-MSD1)** | | | | | Source: PJL0090-01 | | | | | |
| **Acetone** | **34.1** | 20 | ug/l | 25.0 | ND | 136 | 35-150 | 17.5 | 20 | |
| **Benzene** | **26.7** | 2.0 | ug/l | 25.0 | ND | 107 | 75-120 | 0.374 | 20 | |
| **Bromobenzene** | **22.6** | 5.0 | ug/l | 25.0 | ND | 90.4 | 65-150 | 0.443 | 20 | |
| **Bromochloromethane** | **27.8** | 5.0 | ug/l | 25.0 | ND | 111 | 60-155 | 2.18 | 20 | |
| **Bromodichloromethane** | **26.9** | 2.0 | ug/l | 25.0 | ND | 108 | 60-155 | 0.741 | 20 | |
| **Bromoform** | **19.4** | 5.0 | ug/l | 25.0 | ND | 77.6 | 25-160 | 0.514 | 20 | |
| **Bromomethane** | **33.3** | 5.0 | ug/l | 25.0 | ND | 133 | 55-170 | 8.45 | 20 | |
| **2-Butanone (MEK)** | **31.0** | 10 | ug/l | 25.0 | ND | 124 | 35-165 | 1.63 | 20 | |
| **n-Butylbenzene** | **24.1** | 5.0 | ug/l | 25.0 | ND | 96.4 | 65-140 | 2.86 | 20 | |
| **sec-Butylbenzene** | **22.7** | 5.0 | ug/l | 25.0 | ND | 90.8 | 60-145 | 1.75 | 20 | |
| **tert-Butylbenzene** | **21.9** | 5.0 | ug/l | 25.0 | ND | 87.6 | 65-145 | 1.81 | 20 | |
| **Carbon Disulfide** | **28.7** | 5.0 | ug/l | 25.0 | ND | 115 | 65-155 | 0 | 20 | |
| **Carbon tetrachloride** | **25.1** | 5.0 | ug/l | 25.0 | ND | 100 | 65-150 | 0 | 20 | |
| **Chlorobenzene** | **21.0** | 2.0 | ug/l | 25.0 | ND | 84.0 | 75-130 | 0 | 20 | |
| **Chloroethane** | **33.0** | 5.0 | ug/l | 25.0 | ND | 132 | 65-165 | 2.14 | 20 | |
| **Chloroform** | **30.1** | 2.0 | ug/l | 25.0 | ND | 120 | 70-130 | 1.68 | 20 | |
| **Chloromethane** | **26.5** | 5.0 | ug/l | 25.0 | ND | 106 | 60-165 | 0.378 | 20 | |
| **2-Chlorotoluene** | **22.1** | 5.0 | ug/l | 25.0 | ND | 88.4 | 65-145 | 3.99 | 20 | |
| **4-Chlorotoluene** | **21.6** | 5.0 | ug/l | 25.0 | ND | 86.4 | 70-145 | 1.83 | 20 | |
| **Dibromochloromethane** | **21.7** | 2.0 | ug/l | 25.0 | ND | 86.8 | 55-155 | 0.460 | 20 | |
| **1,2-Dibromo-3-chloropropane** | **24.8** | 5.0 | ug/l | 25.0 | ND | 99.2 | 40-150 | 2.78 | 20 | |
| **1,2-Dibromoethane (EDB)** | **21.4** | 2.0 | ug/l | 25.0 | ND | 85.6 | 55-155 | 1.89 | 20 | |

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METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L1908 Extracted: 12/19/00** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 12/20/00 (P0L1908-MSD1)** | | | | | **Source: PJL0090-01** | | | | | |
| **Dibromomethane** | **26.9** | 2.0 | ug/l | 25.0 | ND | 108 | 60-155 | 0.371 | 20 | |
| **1,2-Dichlorobenzene** | **22.9** | 2.0 | ug/l | 25.0 | ND | 91.6 | 65-140 | 2.59 | 20 | |
| **1,3-Dichlorobenzene** | **22.8** | 2.0 | ug/l | 25.0 | ND | 91.2 | 65-145 | 1.31 | 20 | |
| **1,4-Dichlorobenzene** | **23.3** | 2.0 | ug/l | 25.0 | ND | 93.2 | 65-140 | 0.855 | 20 | |
| **Dichlorodifluoromethane** | **23.1** | 5.0 | ug/l | 25.0 | ND | 92.4 | 30-190 | 2.56 | 20 | |
| **1,1-Dichloroethane** | **31.1** | 2.0 | ug/l | 25.0 | ND | 124 | 70-130 | 2.94 | 20 | |
| **1,2-Dichloroethane** | **30.0** | 2.0 | ug/l | 25.0 | ND | 120 | 70-130 | 3.05 | 20 | |
| **1,1-Dichloroethene** | **26.1** | 5.0 | ug/l | 25.0 | ND | 104 | 65-135 | 0.763 | 20 | |
| **cis-1,2-Dichloroethene** | **28.7** | 2.0 | ug/l | 25.0 | ND | 115 | 70-130 | 1.40 | 20 | |
| **trans-1,2-Dichloroethene** | **26.9** | 2.0 | ug/l | 25.0 | ND | 108 | 55-175 | 0.746 | 20 | |
| **1,2-Dichloropropane** | **27.1** | 2.0 | ug/l | 25.0 | ND | 108 | 70-130 | 0.368 | 20 | |
| **1,3-Dichloropropane** | **24.7** | 2.0 | ug/l | 25.0 | ND | 98.8 | 60-150 | 1.22 | 20 | |
| **2,2-Dichloropropane** | **24.5** | 2.0 | ug/l | 25.0 | ND | 98.0 | 15-200 | 0.407 | 20 | |
| **1,1-Dichloropropene** | **27.8** | 2.0 | ug/l | 25.0 | ND | 111 | 65-150 | 0.359 | 20 | |
| **cis-1,3-Dichloropropene** | **25.0** | 2.0 | ug/l | 25.0 | ND | 100 | 65-150 | 1.59 | 20 | |
| **trans-1,3-Dichloropropene** | **21.9** | 2.0 | ug/l | 25.0 | ND | 87.6 | 60-150 | 0.456 | 20 | |
| **Ethylbenzene** | **21.5** | 2.0 | ug/l | 25.0 | ND | 86.0 | 60-150 | 2.83 | 20 | |
| **Hexachlorobutadiene** | **20.9** | 5.0 | ug/l | 25.0 | ND | 83.6 | 55-150 | 3.76 | 20 | |
| **2-Hexanone** | **21.5** | 10 | ug/l | 25.0 | ND | 86.0 | 35-165 | 2.35 | 20 | |
| **Iodomethane** | **28.4** | 2.0 | ug/l | 25.0 | ND | 114 | 65-160 | 3.12 | 20 | |
| **Isopropylbenzene** | **21.0** | 2.0 | ug/l | 25.0 | ND | 84.0 | 65-145 | 0.477 | 20 | |
| **p-Isopropyltoluene** | **20.8** | 2.0 | ug/l | 25.0 | ND | 83.2 | 60-145 | 4.24 | 20 | |
| **Methylene chloride** | **30.5** | 5.0 | ug/l | 25.0 | ND | 122 | 65-160 | 2.32 | 20 | |
| **4-Methyl-2-pentanone (MIBK)** | **26.3** | 10 | ug/l | 25.0 | ND | 105 | 40-165 | 0 | 20 | |
| **Methyl-tert-butyl Ether (MTBE)** | **27.6** | 5.0 | ug/l | 25.0 | ND | 110 | 60-160 | 3.56 | 20 | |
| **Naphthalene** | **20.0** | 5.0 | ug/l | 25.0 | ND | 80.0 | 50-150 | 4.88 | 20 | |
| **n-Propylbenzene** | **23.4** | 2.0 | ug/l | 25.0 | ND | 93.6 | 70-145 | 3.77 | 20 | |
| **Styrene** | **3.14** | 2.0 | ug/l | 25.0 | ND | 12.6 | 65-150 | 42.6 | 20 | M2,R2 |
| **1,1,1,2-Tetrachloroethane** | **21.3** | 5.0 | ug/l | 25.0 | ND | 85.2 | 60-155 | 0.943 | 20 | |
| **1,1,2,2-Tetrachloroethane** | **26.0** | 2.0 | ug/l | 25.0 | ND | 104 | 65-150 | 0.384 | 20 | |
| **Tetrachloroethene** | **20.6** | 2.0 | ug/l | 25.0 | ND | 82.4 | 70-130 | 0.487 | 20 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: Mesa WQARF 70211-0-0150-02-2.2
Report Number: PJL0090

Sampled: 12/07/00
Received: 12/07/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L1908 Extracted: 12/19/00** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 12/20/00 (P0L1908-MSD1)** | | | | | **Source: PJL0090-01** | | | | | |
| **Toluene** | **22.6** | 2.0 | ug/l | 25.0 | ND | 90.4 | 70-125 | 0.889 | 20 | |
| **1,2,3-Trichlorobenzene** | **21.9** | 5.0 | ug/l | 25.0 | ND | 87.6 | 55-150 | 5.76 | 20 | |
| **1,2,4-Trichlorobenzene** | **21.5** | 5.0 | ug/l | 25.0 | ND | 86.0 | 60-145 | 2.75 | 20 | |
| **1,1,1-Trichloroethane** | **25.8** | 2.0 | ug/l | 25.0 | ND | 103 | 70-130 | 0.772 | 20 | |
| **1,1,2-Trichloroethane** | **22.8** | 2.0 | ug/l | 25.0 | ND | 91.2 | 70-130 | 2.67 | 20 | |
| **Trichloroethene** | **24.9** | 2.0 | ug/l | 25.0 | ND | 99.6 | 75-120 | 1.99 | 20 | |
| **Trichlorofluoromethane** | **30.0** | 5.0 | ug/l | 25.0 | ND | 120 | 10-200 | 1.68 | 20 | |
| **1,2,3-Trichloropropane** | **22.6** | 10 | ug/l | 25.0 | ND | 90.4 | 55-150 | 0 | 20 | |
| **1,2,4-Trimethylbenzene** | **15.7** | 2.0 | ug/l | 25.0 | ND | 62.8 | 65-150 | 7.95 | 20 | M2 |
| **1,3,5-Trimethylbenzene** | **19.7** | 2.0 | ug/l | 25.0 | ND | 78.8 | 65-150 | 6.86 | 20 | |
| **Vinyl acetate** | **9.56** | 5.0 | ug/l | 25.0 | ND | 38.2 | 50-160 | 33.4 | 20 | M2,R2 |
| **Vinyl chloride** | **28.0** | 5.0 | ug/l | 25.0 | ND | 112 | 25-200 | 0.717 | 20 | |
| **Xylenes, Total** | **60.4** | 10 | ug/l | 75.0 | ND | 80.5 | 65-145 | 0 | 20 | |
| *Surrogate: Dibromofluoromethane* | *26.8* | | *ug/l* | *25.0* | | *107* | *70-160* | | | |
| *Surrogate: Toluene-d8* | *22.3* | | *ug/l* | *25.0* | | *89.2* | *75-140* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *20.9* | | *ug/l* | *25.0* | | *83.6* | *75-135* | | | |

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Law Engineering
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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: Mesa WQARF 70211-0-0150-02-2.2
Report Number: PJL0090

Sampled: 12/07/00
Received: 12/07/00

METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L0723 Extracted: 12/07/00** | | | | | | | | | | |
| **Blank Analyzed: 12/07/00 (P0L0723-BLK1)** | | | | | | | | | | |
| Chromium VI | ND | 0.025 | mg/l | | | | | | | |
| **LCS Analyzed: 12/07/00 (P0L0723-BS1)** | | | | | | | | | | |
| **Chromium VI** | **0.104** | 0.050 | mg/l | 0.100 | | 104 | 90-115 | | | |
| **LCS Dup Analyzed: 12/07/00 (P0L0723-BSD1)** | | | | | | | | | | |
| **Chromium VI** | **0.104** | 0.050 | mg/l | 0.100 | | 104 | 90-115 | 0 | 20 | |
| **Matrix Spike Analyzed: 12/07/00 (P0L0723-MS1)** | | | | | **Source: PJL0090-02** | | | | | |
| **Chromium VI** | **0.0545** | 0.025 | mg/l | 0.0500 | ND | 104 | 90-120 | | | |
| **Matrix Spike Dup Analyzed: 12/07/00 (P0L0723-MSD1)** | | | | | **Source: PJL0090-02** | | | | | |
| **Chromium VI** | **0.0545** | 0.025 | mg/l | 0.0500 | ND | 104 | 90-120 | 0 | 20 | |
| **Batch: P0L0802 Extracted: 12/08/00** | | | | | | | | | | |
| **Blank Analyzed: 12/08/00 (P0L0802-BLK1)** | | | | | | | | | | |
| Aluminum | ND | 0.50 | mg/l | | | | | | | |
| Barium | ND | 0.010 | mg/l | | | | | | | |
| Calcium | ND | 2.0 | mg/l | | | | | | | |
| Cobalt | ND | 0.050 | mg/l | | | | | | | |
| Copper | ND | 0.020 | mg/l | | | | | | | |
| Iron | ND | 0.10 | mg/l | | | | | | | |
| Lead | ND | 0.050 | mg/l | | | | | | | |
| Magnesium | ND | 0.50 | mg/l | | | | | | | |
| Manganese | ND | 0.020 | mg/l | | | | | | | |
| Nickel | ND | 0.050 | mg/l | | | | | | | |
| Sodium | ND | 5.0 | mg/l | | | | | | | |
| Strontium | ND | 0.10 | mg/l | | | | | | | |
| Vanadium | ND | 0.050 | mg/l | | | | | | | |
| Zinc | ND | 0.050 | mg/l | | | | | | | |

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Report Number: PJL0090

Sampled: 12/07/00
Received: 12/07/00

METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L0802 Extracted: 12/08/00** | | | | | | | | | | |
| **Blank Analyzed: 12/08/00 (P0L0802-BLK2)** | | | | | | | | | | |
| Aluminum | ND | 0.50 | mg/l | | | | | | | |
| Barium | ND | 0.010 | mg/l | | | | | | | |
| Calcium | ND | 2.0 | mg/l | | | | | | | |
| Cobalt | ND | 0.050 | mg/l | | | | | | | |
| Copper | ND | 0.020 | mg/l | | | | | | | |
| Lead | ND | 0.050 | mg/l | | | | | | | |
| Magnesium | ND | 0.50 | mg/l | | | | | | | |
| Manganese | ND | 0.020 | mg/l | | | | | | | |
| Nickel | ND | 0.050 | mg/l | | | | | | | |
| Sodium | ND | 5.0 | mg/l | | | | | | | |
| Strontium | ND | 0.10 | mg/l | | | | | | | |
| Vanadium | ND | 0.050 | mg/l | | | | | | | |
| **LCS Analyzed: 12/08/00 (P0L0802-BS1)** | | | | | | | | | | |
| **Aluminum** | **1.12** | 0.50 | mg/l | 1.00 | | 112 | 85-115 | | | |
| **Barium** | **0.964** | 0.010 | mg/l | 1.00 | | 96.4 | 85-115 | | | |
| **Calcium** | **9.44** | 2.0 | mg/l | 10.0 | | 94.4 | 85-115 | | | |
| **Cobalt** | **0.949** | 0.050 | mg/l | 1.00 | | 94.9 | 85-115 | | | |
| **Copper** | **0.953** | 0.020 | mg/l | 1.00 | | 95.3 | 85-115 | | | |
| **Iron** | **10.1** | 0.10 | mg/l | 10.0 | | 101 | 85-115 | | | |
| **Lead** | **0.968** | 0.050 | mg/l | 1.00 | | 96.8 | 85-115 | | | |
| **Magnesium** | **9.27** | 0.50 | mg/l | 10.0 | | 92.7 | 85-115 | | | |
| **Manganese** | **0.964** | 0.020 | mg/l | 1.00 | | 96.4 | 85-115 | | | |
| **Nickel** | **0.941** | 0.050 | mg/l | 1.00 | | 94.1 | 85-115 | | | |
| **Sodium** | **47.2** | 5.0 | mg/l | 50.0 | | 94.4 | 85-115 | | | |
| Strontium | ND | 0.10 | mg/l | 0.100 | | 95.8 | 85-115 | | | |
| **Vanadium** | **0.987** | 0.050 | mg/l | 1.00 | | 98.7 | 85-115 | | | |
| **Zinc** | **0.972** | 0.050 | mg/l | 1.00 | | 97.2 | 85-115 | | | |

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Client Project ID: Mesa WQARF 70211-0-0150-02-2.2
Report Number: PJL0090

Sampled: 12/07/00
Received: 12/07/00

## METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L0802 Extracted: 12/08/00** | | | | | | | | | | |
| **LCS Dup Analyzed: 12/08/00 (P0L0802-BSD1)** | | | | | | | | | | |
| **Aluminum** | **1.13** | 0.50 | mg/l | 1.00 | | 113 | 85-115 | 0.889 | 20 | |
| **Barium** | **0.973** | 0.010 | mg/l | 1.00 | | 97.3 | 85-115 | 0.929 | 20 | |
| **Calcium** | **9.52** | 2.0 | mg/l | 10.0 | | 95.2 | 85-115 | 0.844 | 20 | |
| **Cobalt** | **0.957** | 0.050 | mg/l | 1.00 | | 95.7 | 85-115 | 0.839 | 20 | |
| **Copper** | **0.959** | 0.020 | mg/l | 1.00 | | 95.9 | 85-115 | 0.628 | 20 | |
| **Iron** | **9.94** | 0.10 | mg/l | 10.0 | | 99.4 | 85-115 | 1.60 | 20 | |
| **Lead** | **0.974** | 0.050 | mg/l | 1.00 | | 97.4 | 85-115 | 0.618 | 20 | |
| **Magnesium** | **9.37** | 0.50 | mg/l | 10.0 | | 93.7 | 85-115 | 1.07 | 20 | |
| **Manganese** | **0.969** | 0.020 | mg/l | 1.00 | | 96.9 | 85-115 | 0.517 | 20 | |
| **Nickel** | **0.947** | 0.050 | mg/l | 1.00 | | 94.7 | 85-115 | 0.636 | 20 | |
| **Sodium** | **47.6** | 5.0 | mg/l | 50.0 | | 95.2 | 85-115 | 0.844 | 20 | |
| Strontium | ND | 0.10 | mg/l | 0.100 | | 97.2 | 85-115 | 1.45 | 20 | |
| **Vanadium** | **0.994** | 0.050 | mg/l | 1.00 | | 99.4 | 85-115 | 0.707 | 20 | |
| **Zinc** | **0.989** | 0.050 | mg/l | 1.00 | | 98.9 | 85-115 | 1.73 | 20 | |
| **Matrix Spike Analyzed: 12/08/00 (P0L0802-MS1)** | | | | | **Source: PJL0073-01** | | | | | |
| **Aluminum** | **1.28** | 0.50 | mg/l | 1.00 | ND | 106 | 70-130 | | | |
| **Barium** | **0.994** | 0.010 | mg/l | 1.00 | 0.022 | 97.2 | 70-130 | | | |
| **Calcium** | **63.7** | 2.0 | mg/l | 10.0 | 54 | 97.0 | 70-130 | | | |
| **Cobalt** | **0.967** | 0.050 | mg/l | 1.00 | ND | 96.7 | 70-130 | | | |
| **Copper** | **1.03** | 0.020 | mg/l | 1.00 | ND | 102 | 70-130 | | | |
| **Iron** | **9.99** | 0.10 | mg/l | 10.0 | ND | 99.9 | 70-130 | | | |
| **Lead** | **0.969** | 0.050 | mg/l | 1.00 | ND | 96.9 | 70-130 | | | |
| **Magnesium** | **22.0** | 0.50 | mg/l | 10.0 | 13 | 90.0 | 70-130 | | | |
| **Manganese** | **0.974** | 0.020 | mg/l | 1.00 | ND | 97.4 | 70-130 | | | |
| **Nickel** | **0.945** | 0.050 | mg/l | 1.00 | ND | 94.5 | 70-130 | | | |
| **Sodium** | **361** | 5.0 | mg/l | 50.0 | 310 | 102 | 85-115 | | | |
| **Strontium** | **0.650** | 0.20 | mg/l | 0.100 | 0.56 | 90.0 | 70-130 | | | |
| **Vanadium** | **1.03** | 0.050 | mg/l | 1.00 | ND | 102 | 70-130 | | | |
| **Zinc** | **1.06** | 0.050 | mg/l | 1.00 | 0.059 | 100 | 70-130 | | | |

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Report Number: PJL0090

Sampled: 12/07/00
Received: 12/07/00

METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L0802 Extracted: 12/08/00** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 12/08/00 (P0L0802-MSD1)** | | | | | Source: PJL0073-01 | | | | | |
| **Aluminum** | **1.29** | 0.50 | mg/l | 1.00 | ND | 107 | 70-130 | 0.778 | 20 | |
| **Barium** | **1.01** | 0.010 | mg/l | 1.00 | 0.022 | 98.8 | 70-130 | 1.60 | 20 | |
| **Calcium** | **64.9** | 2.0 | mg/l | 10.0 | 54 | 109 | 70-130 | 1.87 | 20 | |
| **Cobalt** | **0.983** | 0.050 | mg/l | 1.00 | ND | 98.3 | 70-130 | 1.64 | 20 | |
| **Copper** | **1.04** | 0.020 | mg/l | 1.00 | ND | 103 | 70-130 | 0.966 | 20 | |
| **Iron** | **10.5** | 0.10 | mg/l | 10.0 | ND | 105 | 70-130 | 4.98 | 20 | |
| **Lead** | **0.985** | 0.050 | mg/l | 1.00 | ND | 98.5 | 70-130 | 1.64 | 20 | |
| **Magnesium** | **22.4** | 0.50 | mg/l | 10.0 | 13 | 94.0 | 70-130 | 1.80 | 20 | |
| **Manganese** | **0.990** | 0.020 | mg/l | 1.00 | ND | 99.0 | 70-130 | 1.63 | 20 | |
| **Nickel** | **0.956** | 0.050 | mg/l | 1.00 | ND | 95.6 | 70-130 | 1.16 | 20 | |
| **Sodium** | **366** | 5.0 | mg/l | 50.0 | 310 | 112 | 85-115 | 1.38 | 20 | |
| **Strontium** | **0.663** | 0.20 | mg/l | 0.100 | 0.56 | 103 | 70-130 | 1.98 | 20 | |
| **Vanadium** | **1.04** | 0.050 | mg/l | 1.00 | ND | 103 | 70-130 | 0.966 | 20 | |
| **Zinc** | **1.07** | 0.050 | mg/l | 1.00 | 0.059 | 101 | 70-130 | 0.939 | 20 | |
| **Batch: P0L1209 Extracted: 12/12/00** | | | | | | | | | | |
| **Blank Analyzed: 12/15/00 (P0L1209-BLK1)** | | | | | | | | | | |
| Lithium | ND | 1.0 | mg/l | | | | | | | |
| **LCS Analyzed: 12/15/00 (P0L1209-BS1)** | | | | | | | | | | |
| **Lithium** | **6.20** | 1.0 | mg/l | 5.00 | | 124 | 85-115 | | | L |
| **LCS Dup Analyzed: 12/15/00 (P0L1209-BSD1)** | | | | | | | | | | |
| **Lithium** | **5.90** | 1.0 | mg/l | 5.00 | | 118 | 85-115 | 4.96 | 20 | L |
| **Matrix Spike Analyzed: 12/15/00 (P0L1209-MS1)** | | | | | Source: PJL0090-01 | | | | | |
| **Lithium** | **6.90** | 1.0 | mg/l | 5.00 | ND | 132 | 85-115 | | | M |

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## METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L1209 Extracted: 12/12/00** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 12/15/00 (P0L1209-MSD1)** | | | | | **Source: PJL0090-01** | | | | | |
| **Lithium** | 7.00 | 1.0 | mg/l | 5.00 | ND | 134 | 85-115 | 1.44 | 20 | M |
| **Batch: P0L1307 Extracted: 12/13/00** | | | | | | | | | | |
| **Blank Analyzed: 12/19/00 (P0L1307-BLK1)** | | | | | | | | | | |
| Antimony | ND | 0.0040 | mg/l | | | | | | | |
| Arsenic | ND | 0.0030 | mg/l | | | | | | | |
| Beryllium | ND | 0.00050 | mg/l | | | | | | | |
| Cadmium | ND | 0.00050 | mg/l | | | | | | | |
| Chromium | ND | 0.0040 | mg/l | | | | | | | |
| Selenium | ND | 0.0040 | mg/l | | | | | | | |
| **LCS Analyzed: 12/19/00 (P0L1307-BS1)** | | | | | | | | | | |
| **Antimony** | **0.0412** | 0.0080 | mg/l | 0.0400 | | 103 | 85-115 | | | |
| **Arsenic** | **0.0421** | 0.0060 | mg/l | 0.0400 | | 105 | 85-115 | | | |
| **Beryllium** | **0.00205** | 0.0010 | mg/l | 0.00200 | | 102 | 85-115 | | | |
| **Cadmium** | **0.00216** | 0.0010 | mg/l | 0.00200 | | 108 | 85-115 | | | |
| **Chromium** | **0.0443** | 0.0080 | mg/l | 0.0400 | | 111 | 85-115 | | | |
| **Selenium** | **0.0452** | 0.0080 | mg/l | 0.0400 | | 113 | 85-115 | | | |
| **LCS Dup Analyzed: 12/19/00 (P0L1307-BSD1)** | | | | | | | | | | |
| **Antimony** | **0.0437** | 0.0080 | mg/l | 0.0400 | | 109 | 85-115 | 5.89 | 20 | |
| **Arsenic** | **0.0437** | 0.0060 | mg/l | 0.0400 | | 109 | 85-115 | 3.73 | 20 | |
| **Beryllium** | **0.00211** | 0.0010 | mg/l | 0.00200 | | 105 | 85-115 | 2.88 | 20 | |
| **Cadmium** | **0.00223** | 0.0010 | mg/l | 0.00200 | | 111 | 85-115 | 3.19 | 20 | |
| **Chromium** | **0.0461** | 0.0080 | mg/l | 0.0400 | | 115 | 85-115 | 3.98 | 20 | |
| **Selenium** | **0.0469** | 0.0080 | mg/l | 0.0400 | | 117 | 85-115 | 3.69 | 20 | L |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: Mesa WQARF 70211-0-0150-02-2.2
Report Number: PJL0090

Sampled: 12/07/00
Received: 12/07/00

## METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L1307 Extracted: 12/13/00** | | | | | | | | | | |
| **Matrix Spike Analyzed: 12/19/00 (P0L1307-MS1)** | | | | | **Source: PJL0083-01** | | | | | |
| **Antimony** | **0.0513** | 0.0080 | mg/l | 0.0400 | ND | 128 | 70-130 | | | |
| **Arsenic** | **0.0427** | 0.0060 | mg/l | 0.0400 | ND | 107 | 70-130 | | | |
| **Beryllium** | **0.0129** | 0.0040 | mg/l | 0.00200 | 0.010 | 145 | 70-130 | | | M-HA |
| **Cadmium** | **0.00170** | 0.0010 | mg/l | 0.00200 | 0.0054 | -185 | 70-130 | | | M |
| **Chromium** | **0.0322** | 0.0080 | mg/l | 0.0400 | ND | 80.5 | 70-130 | | | |
| **Selenium** | **0.0243** | 0.0080 | mg/l | 0.0400 | ND | 55.5 | 70-130 | | | M |
| **Matrix Spike Dup Analyzed: 12/19/00 (P0L1307-MSD1)** | | | | | **Source: PJL0083-01** | | | | | |
| **Antimony** | **0.0519** | 0.0080 | mg/l | 0.0400 | ND | 130 | 70-130 | 1.16 | 20 | |
| **Arsenic** | **0.0422** | 0.0060 | mg/l | 0.0400 | ND | 106 | 70-130 | 1.18 | 20 | |
| **Beryllium** | **0.0130** | 0.0040 | mg/l | 0.00200 | 0.010 | 150 | 70-130 | 0.772 | 20 | M-HA |
| **Cadmium** | **0.00183** | 0.0010 | mg/l | 0.00200 | 0.0054 | -179 | 70-130 | 7.37 | 20 | M |
| **Chromium** | **0.0364** | 0.0080 | mg/l | 0.0400 | ND | 91.0 | 70-130 | 12.2 | 20 | |
| **Selenium** | **0.0219** | 0.0080 | mg/l | 0.0400 | ND | 49.5 | 70-130 | 10.4 | 20 | M |
| **Batch: P0L2010 Extracted: 12/20/00** | | | | | | | | | | |
| **Blank Analyzed: 12/20/00 (P0L2010-BLK1)** | | | | | | | | | | |
| Silver | ND | 0.0050 | mg/l | | | | | | | |
| **LCS Analyzed: 12/20/00 (P0L2010-BS1)** | | | | | | | | | | |
| **Silver** | **0.0509** | 0.0050 | mg/l | 0.0500 | | 102 | 85-115 | | | |
| **Matrix Spike Analyzed: 12/20/00 (P0L2010-MS1)** | | | | | **Source: PJL0252-01** | | | | | |
| **Silver** | **0.0441** | 0.025 | mg/l | 0.0500 | ND | 88.2 | 70-130 | | | |
| **Matrix Spike Dup Analyzed: 12/20/00 (P0L2010-MSD1)** | | | | | **Source: PJL0252-01** | | | | | |
| **Silver** | **0.0456** | 0.025 | mg/l | 0.0500 | ND | 91.2 | 70-130 | 3.34 | 20 | |

Julie M. Slocum
Project Manager



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| | | |
|---|---|---|
| Law Engineering<br>4634 S. 36th Place<br>Phoenix, AZ 85040<br>Attention: Jim Clarke | Client Project ID: Mesa WQARF 70211-0-0150-02-2.2<br>Report Number: PJL0090 | Sampled: 12/07/00<br>Received: 12/07/00 |

METHOD BLANK/QC DATA

# DATA QUALIFIERS AND DEFINITIONS

| | |
|---|---|
| **C** | Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted. |
| **L** | Laboratory Control Sample recovery was above the method control limits. Analyte not detected, data not impacted. |
| **L3** | Laboratory Control Sample recovery was outside of the acceptance limits. See Corrective Action Report. |
| **M** | The MS and/or MSD were outside of the acceptance limits due to sample matrix interference. See Blank Spike (LCS). |
| **M-HA** | Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information See LCS. |
| **M1** | The sample required a dilution due to matrix interference. Because of this dilution, the matrix spike concentrations in the sample were reduced to a level where the recovery calculation does not provide useful information. See LCS. |
| **M2** | Matrix Spike recovery was outside the method control limits. See Corrective Action Report. |
| **R2** | The RPD exceeded the method control limit. See Corrective Action Report. |
| **ND** | Analyte NOT DETECTED at or above the reporting limit |
| **NR** | Not reported. |
| **RPD** | Relative Percent Difference |

Julie M. Slocum
Project Manager



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# CORRECTIVE ACTION REPORT

| | | | |
|---|---|---|---|
| Department: | GC/MS | Method: | 8260B |
| Date: | 12/15/2000 | Matrix: | Water |
| Batch: | P0L1507 | | |
| Samples: | PJL0044-11, PJL0044-13 – PJL0044-15, PJL0048-01 – PJL0048-03 & PJL0071-01 – PJL0071-09 | | |

Identification and Definition of Problem:

The Relative Percent Differences (RPD) between the Laboratory Control Sample (LCS) and the Laboratory Control Sample Duplicate (LCSD) were outside of the 20% acceptance criteria for 1,2,3-Trichlorobenzene (24.4%), 1,2-Dibromo-3-chloropropane (23.9%), Bromomethane (20.9%), and Acetone (20.2%). The RPD was also outside of acceptance limits between the Matrix Spike (MS) and Matrix Spike Duplicate (MSD) for 4-Chlorotoluene (23.9%), Hexachlorobutadiene (34.2%), Vinyl acetate (73.6%) and Styrene (121%).

Determination of the Cause of the Problem:

The cause of the high RPDs could not be determined.

Corrective Action:

The LCS and LCSD recovered within acceptance limits for all target analytes. Those analytes that had unacceptable RPDs between the LCS and LCSD had acceptable RPDs between the MS and MSD. Also, those analytes that had unacceptable RPDs between the MS and MSD had acceptable RPDs between the LCS and LCSD. The data should not be significantly impacted.

Elizabeth C. Wueschner: Elizabeth C. Wueschner Date: 01/02/2001
Quality Assurance Manager

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# CORRECTIVE ACTION REPORT

| | | | |
|---|---|---|---|
| Department: | GC/MS | Method: | 8260B |
| Date: | 12/19/2000 | Matrix: | Water |
| Batch: | P0L1908 | | |
| Samples: | PJL0090-01 – PJL0090-03 & PJL0091-01 | | |

Identification and Definition of Problem:

The Matrix Spike (MS) and Matrix Spike Duplicate (MSD) recovered low (19.4% and 12.6% respectively) and outside of the 65-150% acceptance limits for Styrene. The MSD also recovered low and outside of acceptance limits for 1,2,4-Trimethylbenzene and Vinyl acetate (62.8% and 38.2% respectively). The Relative Percent Differences (RPD) between the MS and MSD were outside of the 20% acceptance criteria for Styrene (42.6%) and Vinyl acetate (33.4%) The RPD was also outside of acceptance limits between the Laboratory Control Sample (LCS) and the Laboratory Control Sample Duplicate (LCSD) for 2-Butanone (28.4%).

Determination of the Cause of the Problem:

The cause of the low recoveries and high RPDs in the MS and MSD could not be determined, but may be due to matrix effects. The cause of the high RPDs between the LCS and LCSD could not be determined.

Corrective Action:

The LCS and LCSD recovered within acceptance limits for all target analytes. 2-Butanone had an acceptable RPD between the MS and MSD. Also, those analytes that had unacceptable RPDs between the MS and MSD had acceptable RPDs between the LCS and LCSD. The data should not be significantly impacted.

Elizabeth C. Wueschner: Elizabeth C. Wueschner Date: 01/08/2001
Quality Assurance Manager

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# CHAIN OF CUSTODY FORM



Client Name/Address:
LAW Engineering
4634 S 36th Place
Phoenix, AZ 85040

Project/PO Number:
Mesa WQARF
70211-0-0150-02-2.2

Project Manager:
Jim Clarke

Phone Number:
602-437-0250

Sampler:
Ron Bednar

Fax Number:
602-437-3675

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date | Sampling Time | Preservatives | Analysis Required: 8260 | Metals (See attached sheet) | Hex Chrom | | | | | | | Special Instructions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-3S | $H_2O$ | VOA | 2 | 12/7/00 | 10:00 | HCL | X | | | | | PJL00090-01 | | | | |
| MW-3S | $H_2O$ | 500 mp poly | 1 | 12/7/00 | 10:00 | Nitric | | X | | | | | | | | -01 |
| MW-2D | $H_2O$ | VOA | 2 | 12/7/00 | 9:30 | HCL | X | | | | | | | | | -02 |
| MW-2D | $H_2O$ | 500 mp poly | 1 | 12/7/00 | 9:30 | Nitric | | X | | | | | | | | -02 |
| MW-2D | $H_2O$ | 500 mp poly | 1 | 12/7/00 | 9:30 | None | | | X | | | | | | | -02 |
| MW-4S | $H_2O$ | VOA | 2 | 12/7/00 | 8:00 | HCL | X | | | | | | | | | -03 |
| MW-4S | $H_2O$ | 500 mp poly | 1 | 12/7/00 | 8:00 | Nitric | | X | | | | | | | | -03 |

Relinquished By: Date /Time: 12/7/00 12:00

Received by: Date /Time:

Relinquished By: Date /Time:

Received by: Date /Time: BCT

Relinquished By: Date /Time: BCT

Received in Lab by: Date /Time: 12/7/00 1200

Turnaround Time: (Check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal X

Sample Integrity: (Check)
intact X on ice X

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

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| | | |
|---|---|---|
| Law Engineering<br>4634 S. 36th Place<br>Phoenix, AZ 85040<br>Attention: Jim Clarke | Client Project ID: South Mesa WQARF<br>70211-0-0150-02-2.2<br>Report Number: PJL0071 | Sampled: 12/06/00<br>Received: 12/06/00<br>Issued: 12/21/00 |

# CASE NARRATIVE

| LABORATORY NUMBER | SAMPLE DESCRIPTION | SAMPLE MATRIX |
|---|---|---|
| PJL0071-01 | MW-7D | Water |
| PJL0071-02 | MW-1D | Water |
| PJL0071-03 | MW-1S | Water |
| PJL0071-04 | MW-10D | Water |
| PJL0071-05 | MW-5D | Water |
| PJL0071-06 | MW-AM-8S | Water |
| PJL0071-07 | MW-9S | Water |
| PJL0071-08 | MW-LW | Water |
| PJL0071-09 | Trip Blank | Water |

SAMPLE RECEIPT: Samples were received intact, on ice, and with chain of custody documentation.

HOLDING TIMES: Sample MW-9S was analyzed outside of the specified 24 hour hold time for Chromium VI. The result is reported with an H per the client's request.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: One or more method QC parameter exceeded acceptance limits. See Corrective Action Report.

OBSERVATIONS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

**DEL MAR ANALYTICAL , PHOENIX (AZ0426)**

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: South Mesa WQARF
70211-0-0150-02-2.2
Report Number: PJL0071

Sampled: 12/06/00
Received: 12/06/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJL0071-01 (MW-7D - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P0L1507 | 20 | ND | 1 | 12/15/00 | 12/15/00 | |
| Benzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromobenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromochloromethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromodichloromethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromoform | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromomethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 2-Butanone (MEK) | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| n-Butylbenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| sec-Butylbenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| tert-Butylbenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Carbon Disulfide | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | C |
| Carbon tetrachloride | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Chlorobenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Chloroethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Chloroform | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Chloromethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 2-Chlorotoluene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 4-Chlorotoluene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Dibromochloromethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Dibromomethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dichlorobenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,3-Dichlorobenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,4-Dichlorobenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Dichlorodifluoromethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | C |
| 1,1-Dichloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dichloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1-Dichloroethene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| cis-1,2-Dichloroethene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| trans-1,2-Dichloroethene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dichloropropane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,3-Dichloropropane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 2,2-Dichloropropane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1-Dichloropropene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| cis-1,3-Dichloropropene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| trans-1,3-Dichloropropene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Ethylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Hexachlorobutadiene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 2-Hexanone | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| Iodomethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Isopropylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| p-Isopropyltoluene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: South Mesa WQARF 70211-0-0150-02-2.2
Report Number: PJL0071

Sampled: 12/06/00
Received: 12/06/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJL0071-01 (MW-7D - Water)** | | | | | | | | |
| Methylene chloride | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Naphthalene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| n-Propylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Styrene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| **Tetrachloroethene** | EPA 8260B | P0L1507 | 2.0 | **41** | 1 | 12/15/00 | 12/15/00 | |
| Toluene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1,1-Trichloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1,2-Trichloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Trichloroethene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Trichlorofluoromethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2,3-Trichloropropane | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Vinyl acetate | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Vinyl chloride | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Xylenes, Total | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| *Surrogate: Dibromofluoromethane (70-160%)* | | | | *83.6 %* | | | | |
| *Surrogate: Toluene-d8 (75-140%)* | | | | *117 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (75-135%)* | | | | *94.0 %* | | | | |

Julie M. Slocum
Project Manager



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4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: South Mesa WQARF
70211-0-0150-02-2.2
Report Number: PJL0071

Sampled: 12/06/00
Received: 12/06/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJL0071-02 (MW-1D - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P0L1507 | 20 | ND | 1 | 12/15/00 | 12/15/00 | |
| Benzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromobenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromochloromethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromodichloromethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromoform | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromomethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 2-Butanone (MEK) | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| n-Butylbenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| sec-Butylbenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| tert-Butylbenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Carbon Disulfide | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | C |
| Carbon tetrachloride | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Chlorobenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Chloroethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Chloroform | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Chloromethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 2-Chlorotoluene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 4-Chlorotoluene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Dibromochloromethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Dibromomethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dichlorobenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,3-Dichlorobenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,4-Dichlorobenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Dichlorodifluoromethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | C |
| 1,1-Dichloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dichloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1-Dichloroethene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| cis-1,2-Dichloroethene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| trans-1,2-Dichloroethene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dichloropropane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,3-Dichloropropane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 2,2-Dichloropropane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1-Dichloropropene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| cis-1,3-Dichloropropene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| trans-1,3-Dichloropropene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Ethylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Hexachlorobutadiene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 2-Hexanone | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| Iodomethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Isopropylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| p-Isopropyltoluene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |

Julie M. Slocum
Project Manager



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Attention: Jim Clarke

Client Project ID: South Mesa WQARF 70211-0-0150-02-2.2
Report Number: PJL0071

Sampled: 12/06/00
Received: 12/06/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJL0071-02 (MW-1D - Water)** | | | | | | | | |
| Methylene chloride | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Naphthalene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| n-Propylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Styrene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Tetrachloroethene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Toluene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1,1-Trichloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1,2-Trichloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Trichloroethene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Trichlorofluoromethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2,3-Trichloropropane | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Vinyl acetate | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Vinyl chloride | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Xylenes, Total | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| *Surrogate: Dibromofluoromethane (70-160%)* | | | | *82.0 %* | | | | |
| *Surrogate: Toluene-d8 (75-140%)* | | | | *114 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (75-135%)* | | | | *92.8 %* | | | | |

Julie M. Slocum
Project Manager



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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: South Mesa WQARF
70211-0-0150-02-2.2
Report Number: PJL0071

Sampled: 12/06/00
Received: 12/06/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJL0071-03 (MW-1S - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P0L1507 | 20 | ND | 1 | 12/15/00 | 12/15/00 | |
| Benzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromobenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromochloromethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromodichloromethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromoform | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromomethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 2-Butanone (MEK) | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| n-Butylbenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| sec-Butylbenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| tert-Butylbenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Carbon Disulfide | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | C |
| Carbon tetrachloride | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Chlorobenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Chloroethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Chloroform | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Chloromethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 2-Chlorotoluene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 4-Chlorotoluene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Dibromochloromethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Dibromomethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dichlorobenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,3-Dichlorobenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,4-Dichlorobenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Dichlorodifluoromethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | C |
| 1,1-Dichloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dichloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1-Dichloroethene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| cis-1,2-Dichloroethene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| trans-1,2-Dichloroethene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dichloropropane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,3-Dichloropropane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 2,2-Dichloropropane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1-Dichloropropene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| cis-1,3-Dichloropropene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| trans-1,3-Dichloropropene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Ethylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Hexachlorobutadiene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 2-Hexanone | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| Iodomethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Isopropylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| p-Isopropyltoluene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |

Julie M. Slocum
Project Manager



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Attention: Jim Clarke

Client Project ID: South Mesa WQARF 70211-0-0150-02-2.2
Report Number: PJL0071

Sampled: 12/06/00
Received: 12/06/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJL0071-03 (MW-1S - Water)** | | | | | | | | |
| Methylene chloride | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Naphthalene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| n-Propylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Styrene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Tetrachloroethene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Toluene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1,1-Trichloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1,2-Trichloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Trichloroethene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Trichlorofluoromethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2,3-Trichloropropane | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Vinyl acetate | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Vinyl chloride | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Xylenes, Total | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| *Surrogate: Dibromofluoromethane (70-160%)* | | | | *81.2 %* | | | | |
| *Surrogate: Toluene-d8 (75-140%)* | | | | *115 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (75-135%)* | | | | *95.2 %* | | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: South Mesa WQARF
70211-0-0150-02-2.2
Report Number: PJL0071

Sampled: 12/06/00
Received: 12/06/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJL0071-04 (MW-10D - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P0L1507 | 20 | ND | 1 | 12/15/00 | 12/15/00 | |
| Benzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromobenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromochloromethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromodichloromethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromoform | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromomethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 2-Butanone (MEK) | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| n-Butylbenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| sec-Butylbenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| tert-Butylbenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Carbon Disulfide | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | C |
| Carbon tetrachloride | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Chlorobenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Chloroethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Chloroform | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Chloromethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 2-Chlorotoluene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 4-Chlorotoluene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Dibromochloromethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Dibromomethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dichlorobenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,3-Dichlorobenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,4-Dichlorobenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Dichlorodifluoromethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | C |
| 1,1-Dichloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dichloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1-Dichloroethene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| cis-1,2-Dichloroethene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| trans-1,2-Dichloroethene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dichloropropane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,3-Dichloropropane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 2,2-Dichloropropane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1-Dichloropropene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| cis-1,3-Dichloropropene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| trans-1,3-Dichloropropene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Ethylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Hexachlorobutadiene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 2-Hexanone | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| Iodomethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Isopropylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| p-Isopropyltoluene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: South Mesa WQARF 70211-0-0150-02-2.2
Report Number: PJL0071

Sampled: 12/06/00
Received: 12/06/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJL0071-04 (MW-10D - Water)** | | | | | | | | |
| Methylene chloride | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Naphthalene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| n-Propylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Styrene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| **Tetrachloroethene** | EPA 8260B | P0L1507 | 2.0 | **42** | 1 | 12/15/00 | 12/15/00 | |
| Toluene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1,1-Trichloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1,2-Trichloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Trichloroethene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Trichlorofluoromethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2,3-Trichloropropane | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Vinyl acetate | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Vinyl chloride | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Xylenes, Total | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| *Surrogate: Dibromofluoromethane (70-160%)* | | | | *82.4 %* | | | | |
| *Surrogate: Toluene-d8 (75-140%)* | | | | *113 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (75-135%)* | | | | *92.4 %* | | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: South Mesa WQARF
70211-0-0150-02-2.2
Report Number: PJL0071

Sampled: 12/06/00
Received: 12/06/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJL0071-05 (MW-5D - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P0L1507 | 20 | ND | 1 | 12/15/00 | 12/15/00 | |
| Benzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromobenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromochloromethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromodichloromethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromoform | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromomethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 2-Butanone (MEK) | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| n-Butylbenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| sec-Butylbenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| tert-Butylbenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Carbon Disulfide | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | C |
| Carbon tetrachloride | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Chlorobenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Chloroethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Chloroform | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Chloromethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 2-Chlorotoluene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 4-Chlorotoluene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Dibromochloromethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Dibromomethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dichlorobenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,3-Dichlorobenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,4-Dichlorobenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Dichlorodifluoromethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | C |
| 1,1-Dichloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dichloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1-Dichloroethene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| cis-1,2-Dichloroethene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| trans-1,2-Dichloroethene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dichloropropane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,3-Dichloropropane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 2,2-Dichloropropane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1-Dichloropropene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| cis-1,3-Dichloropropene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| trans-1,3-Dichloropropene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Ethylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Hexachlorobutadiene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 2-Hexanone | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| Iodomethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Isopropylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| p-Isopropyltoluene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: South Mesa WQARF 70211-0-0150-02-2.2
Report Number: PJL0071

Sampled: 12/06/00
Received: 12/06/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJL0071-05 (MW-5D - Water)** | | | | | | | | |
| Methylene chloride | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Naphthalene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| n-Propylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Styrene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| **Tetrachloroethene** | EPA 8260B | P0L1507 | 2.0 | **8.4** | 1 | 12/15/00 | 12/15/00 | |
| Toluene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1,1-Trichloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1,2-Trichloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Trichloroethene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Trichlorofluoromethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2,3-Trichloropropane | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Vinyl acetate | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Vinyl chloride | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Xylenes, Total | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| *Surrogate: Dibromofluoromethane (70-160%)* | | | | *84.0 %* | | | | |
| *Surrogate: Toluene-d8 (75-140%)* | | | | *118 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (75-135%)* | | | | *94.0 %* | | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: South Mesa WQARF
70211-0-0150-02-2.2
Report Number: PJL0071

Sampled: 12/06/00
Received: 12/06/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJL0071-06 (MW-AM-8S - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P0L1507 | 20 | ND | 1 | 12/15/00 | 12/15/00 | |
| Benzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromobenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromochloromethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromodichloromethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromoform | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromomethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 2-Butanone (MEK) | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| n-Butylbenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| sec-Butylbenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| tert-Butylbenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Carbon Disulfide | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | C |
| Carbon tetrachloride | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Chlorobenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Chloroethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Chloroform | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Chloromethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 2-Chlorotoluene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 4-Chlorotoluene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Dibromochloromethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Dibromomethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dichlorobenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,3-Dichlorobenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,4-Dichlorobenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Dichlorodifluoromethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | C |
| 1,1-Dichloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dichloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1-Dichloroethene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| **cis-1,2-Dichloroethene** | EPA 8260B | P0L1507 | 2.0 | **6.2** | 1 | 12/15/00 | 12/15/00 | |
| trans-1,2-Dichloroethene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dichloropropane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,3-Dichloropropane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 2,2-Dichloropropane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1-Dichloropropene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| cis-1,3-Dichloropropene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| trans-1,3-Dichloropropene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Ethylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Hexachlorobutadiene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 2-Hexanone | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| Iodomethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Isopropylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| p-Isopropyltoluene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: South Mesa WQARF 70211-0-0150-02-2.2
Report Number: PJL0071

Sampled: 12/06/00
Received: 12/06/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJL0071-06 (MW-AM-8S - Water)** | | | | | | | | |
| Methylene chloride | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Naphthalene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| n-Propylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Styrene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| **Tetrachloroethene** | EPA 8260B | P0L1507 | 2.0 | **64** | 1 | 12/15/00 | 12/15/00 | |
| Toluene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1,1-Trichloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1,2-Trichloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| **Trichloroethene** | EPA 8260B | P0L1507 | 2.0 | **2.9** | 1 | 12/15/00 | 12/15/00 | |
| Trichlorofluoromethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2,3-Trichloropropane | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Vinyl acetate | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Vinyl chloride | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Xylenes, Total | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| *Surrogate: Dibromofluoromethane (70-160%)* | | | | *83.6 %* | | | | |
| *Surrogate: Toluene-d8 (75-140%)* | | | | *119 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (75-135%)* | | | | *96.0 %* | | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: South Mesa WQARF
70211-0-0150-02-2.2
Report Number: PJL0071

Sampled: 12/06/00
Received: 12/06/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJL0071-07 (MW-9S - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P0L1507 | 20 | ND | 1 | 12/15/00 | 12/15/00 | |
| Benzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromobenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromochloromethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromodichloromethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromoform | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromomethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 2-Butanone (MEK) | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| n-Butylbenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| sec-Butylbenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| tert-Butylbenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Carbon Disulfide | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | C |
| Carbon tetrachloride | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Chlorobenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Chloroethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Chloroform | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Chloromethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 2-Chlorotoluene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 4-Chlorotoluene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Dibromochloromethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Dibromomethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dichlorobenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,3-Dichlorobenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,4-Dichlorobenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Dichlorodifluoromethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | C |
| 1,1-Dichloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dichloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1-Dichloroethene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| **cis-1,2-Dichloroethene** | EPA 8260B | P0L1507 | 2.0 | **6.5** | 1 | 12/15/00 | 12/15/00 | |
| trans-1,2-Dichloroethene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dichloropropane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,3-Dichloropropane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 2,2-Dichloropropane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1-Dichloropropene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| cis-1,3-Dichloropropene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| trans-1,3-Dichloropropene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Ethylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Hexachlorobutadiene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 2-Hexanone | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| Iodomethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Isopropylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| p-Isopropyltoluene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |

Julie M. Slocum
Project Manager



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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: South Mesa WQARF
70211-0-0150-02-2.2
Report Number: PJL0071

Sampled: 12/06/00
Received: 12/06/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJL0071-07 (MW-9S - Water)** | | | | | | | | |
| Methylene chloride | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Naphthalene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| n-Propylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Styrene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| **Tetrachloroethene** | EPA 8260B | P0L1507 | 2.0 | **63** | 1 | 12/15/00 | 12/15/00 | |
| Toluene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1,1-Trichloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1,2-Trichloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| **Trichloroethene** | EPA 8260B | P0L1507 | 2.0 | **2.7** | 1 | 12/15/00 | 12/15/00 | |
| Trichlorofluoromethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2,3-Trichloropropane | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Vinyl acetate | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Vinyl chloride | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Xylenes, Total | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| *Surrogate: Dibromofluoromethane (70-160%)* | | | | *81.2 %* | | | | |
| *Surrogate: Toluene-d8 (75-140%)* | | | | *115 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (75-135%)* | | | | *94.8 %* | | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: South Mesa WQARF
70211-0-0150-02-2.2
Report Number: PJL0071

Sampled: 12/06/00
Received: 12/06/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJL0071-08 (MW-LW - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P0L1507 | 20 | ND | 1 | 12/15/00 | 12/15/00 | |
| Benzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromobenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromochloromethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromodichloromethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromoform | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromomethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 2-Butanone (MEK) | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| n-Butylbenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| sec-Butylbenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| tert-Butylbenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Carbon Disulfide | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | C |
| Carbon tetrachloride | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Chlorobenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Chloroethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Chloroform | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Chloromethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 2-Chlorotoluene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 4-Chlorotoluene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Dibromochloromethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Dibromomethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dichlorobenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,3-Dichlorobenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,4-Dichlorobenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Dichlorodifluoromethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | C |
| 1,1-Dichloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dichloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1-Dichloroethene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| cis-1,2-Dichloroethene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| trans-1,2-Dichloroethene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dichloropropane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,3-Dichloropropane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 2,2-Dichloropropane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1-Dichloropropene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| cis-1,3-Dichloropropene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| trans-1,3-Dichloropropene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Ethylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Hexachlorobutadiene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 2-Hexanone | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| Iodomethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Isopropylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| p-Isopropyltoluene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |

Julie M. Slocum
Project Manager



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4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: South Mesa WQARF
70211-0-0150-02-2.2
Report Number: PJL0071

Sampled: 12/06/00
Received: 12/06/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJL0071-08 (MW-LW - Water)** | | | | | | | | |
| Methylene chloride | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Naphthalene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| n-Propylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Styrene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Tetrachloroethene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Toluene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1,1-Trichloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1,2-Trichloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Trichloroethene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Trichlorofluoromethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2,3-Trichloropropane | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Vinyl acetate | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Vinyl chloride | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Xylenes, Total | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| *Surrogate: Dibromofluoromethane (70-160%)* | | | | *80.4 %* | | | | |
| *Surrogate: Toluene-d8 (75-140%)* | | | | *114 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (75-135%)* | | | | *94.4 %* | | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: South Mesa WQARF
70211-0-0150-02-2.2
Report Number: PJL0071

Sampled: 12/06/00
Received: 12/06/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJL0071-09 (Trip Blank - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P0L1507 | 20 | ND | 1 | 12/15/00 | 12/15/00 | |
| Benzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromobenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromochloromethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromodichloromethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromoform | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromomethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 2-Butanone (MEK) | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| n-Butylbenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| sec-Butylbenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| tert-Butylbenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Carbon Disulfide | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | C |
| Carbon tetrachloride | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Chlorobenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Chloroethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Chloroform | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Chloromethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 2-Chlorotoluene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 4-Chlorotoluene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Dibromochloromethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Dibromomethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dichlorobenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,3-Dichlorobenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,4-Dichlorobenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Dichlorodifluoromethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | C |
| 1,1-Dichloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dichloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1-Dichloroethene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| cis-1,2-Dichloroethene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| trans-1,2-Dichloroethene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dichloropropane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,3-Dichloropropane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 2,2-Dichloropropane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1-Dichloropropene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| cis-1,3-Dichloropropene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| trans-1,3-Dichloropropene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Ethylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Hexachlorobutadiene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 2-Hexanone | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| Iodomethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Isopropylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| p-Isopropyltoluene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |

Julie M. Slocum
Project Manager



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Attention: Jim Clarke

Client Project ID: South Mesa WQARF
70211-0-0150-02-2.2
Report Number: PJL0071

Sampled: 12/06/00
Received: 12/06/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJL0071-09 (Trip Blank - Water)** | | | | | | | | |
| Methylene chloride | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Naphthalene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| n-Propylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Styrene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Tetrachloroethene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Toluene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1,1-Trichloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1,2-Trichloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Trichloroethene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Trichlorofluoromethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2,3-Trichloropropane | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Vinyl acetate | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Vinyl chloride | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Xylenes, Total | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| *Surrogate: Dibromofluoromethane (70-160%)* | | | | *80.8 %* | | | | |
| *Surrogate: Toluene-d8 (75-140%)* | | | | *114 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (75-135%)* | | | | *95.2 %* | | | | |

Julie M. Slocum
Project Manager



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Attention: Jim Clarke

Client Project ID: South Mesa WQARF
70211-0-0150-02-2.2
Report Number: PJL0071

Sampled: 12/06/00
Received: 12/06/00

## TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJL0071-01 (MW-7D - Water)** | | | | | | | | |
| Aluminum | EPA 200.7 | P0L0712 | 0.50 | ND | 1 | 12/7/00 | 12/11/00 | |
| Antimony | EPA 200.9 | P0L0705 | 0.0040 | ND | 1 | 12/7/00 | 12/11/00 | T |
| Arsenic | EPA 200.9 | P0L0705 | 0.0030 | ND | 1 | 12/7/00 | 12/7/00 | T |
| **Barium** | EPA 200.7 | P0L0712 | 0.010 | **0.12** | 1 | 12/7/00 | 12/8/00 | |
| Beryllium | EPA 200.9 | P0L0705 | 0.00050 | ND | 1 | 12/7/00 | 12/7/00 | T |
| Cadmium | EPA 200.9 | P0L0705 | 0.00050 | ND | 1 | 12/7/00 | 12/8/00 | T |
| **Calcium** | EPA 200.7 | P0L0712 | 2.0 | **180** | 1 | 12/7/00 | 12/8/00 | |
| **Chromium** | EPA 200.9 | P0L0705 | 0.0040 | **0.017** | 1 | 12/7/00 | 12/7/00 | T |
| Cobalt | EPA 200.7 | P0L0712 | 0.050 | ND | 1 | 12/7/00 | 12/8/00 | |
| Copper | EPA 200.7 | P0L0712 | 0.020 | ND | 1 | 12/7/00 | 12/8/00 | |
| **Iron** | EPA 200.7 | P0L0712 | 0.10 | **0.98** | 1 | 12/7/00 | 12/8/00 | |
| Lead | EPA 200.7 | P0L0712 | 0.050 | ND | 1 | 12/7/00 | 12/8/00 | |
| **Magnesium** | EPA 200.7 | P0L0712 | 0.50 | **64** | 1 | 12/7/00 | 12/8/00 | |
| **Manganese** | EPA 200.7 | P0L0712 | 0.020 | **0.027** | 1 | 12/7/00 | 12/8/00 | |
| **Nickel** | EPA 200.7 | P0L0712 | 0.050 | **0.11** | 1 | 12/7/00 | 12/8/00 | |
| Lithium | EPA 7430 | P0L1209 | 1.0 | ND | 1 | 12/12/00 | 12/15/00 | L |
| Selenium | EPA 200.9 | P0L0705 | 0.0040 | ND | 1 | 12/7/00 | 12/12/00 | T |
| Silver | EPA 200.7 | P0L0712 | 0.0050 | ND | 1 | 12/7/00 | 12/8/00 | |
| **Sodium** | EPA 273.1 | P0L0712 | 5.0 | **350** | 1 | 12/7/00 | 12/12/00 | |
| **Strontium** | EPA 200.7 | P0L0712 | 1.0 | **1.7** | 10 | 12/7/00 | 12/11/00 | |
| Vanadium | EPA 200.7 | P0L0712 | 0.050 | ND | 1 | 12/7/00 | 12/8/00 | |
| Zinc | EPA 200.7 | P0L0712 | 0.050 | ND | 1 | 12/7/00 | 12/8/00 | |
| **Sample ID: PJL0071-02 (MW-1D - Water)** | | | | | | | | |
| Aluminum | EPA 200.7 | P0L0712 | 0.50 | ND | 1 | 12/7/00 | 12/11/00 | |
| Antimony | EPA 200.9 | P0L0705 | 0.0040 | ND | 1 | 12/7/00 | 12/11/00 | T |
| **Arsenic** | EPA 200.9 | P0L0705 | 0.0030 | **0.0033** | 1 | 12/7/00 | 12/7/00 | T |
| **Barium** | EPA 200.7 | P0L0712 | 0.010 | **0.095** | 1 | 12/7/00 | 12/8/00 | |
| Beryllium | EPA 200.9 | P0L0705 | 0.00050 | ND | 1 | 12/7/00 | 12/7/00 | T |
| Cadmium | EPA 200.9 | P0L0705 | 0.00050 | ND | 1 | 12/7/00 | 12/8/00 | T |
| **Calcium** | EPA 200.7 | P0L0712 | 2.0 | **190** | 1 | 12/7/00 | 12/8/00 | |
| **Chromium** | EPA 200.9 | P0L0705 | 0.0040 | **0.0097** | 1 | 12/7/00 | 12/7/00 | T |
| Cobalt | EPA 200.7 | P0L0712 | 0.050 | ND | 1 | 12/7/00 | 12/8/00 | |
| Copper | EPA 200.7 | P0L0712 | 0.020 | ND | 1 | 12/7/00 | 12/8/00 | |
| **Iron** | EPA 200.7 | P0L0712 | 0.10 | **0.45** | 1 | 12/7/00 | 12/8/00 | |
| Lead | EPA 200.7 | P0L0712 | 0.050 | ND | 1 | 12/7/00 | 12/8/00 | |
| **Magnesium** | EPA 200.7 | P0L0712 | 0.50 | **66** | 1 | 12/7/00 | 12/8/00 | |
| Manganese | EPA 200.7 | P0L0712 | 0.020 | ND | 1 | 12/7/00 | 12/8/00 | |
| Nickel | EPA 200.7 | P0L0712 | 0.050 | ND | 1 | 12/7/00 | 12/8/00 | |
| Lithium | EPA 7430 | P0L1209 | 1.0 | ND | 1 | 12/12/00 | 12/15/00 | L |
| Selenium | EPA 200.9 | P0L0705 | 0.0040 | ND | 1 | 12/7/00 | 12/12/00 | T |
| Silver | EPA 200.7 | P0L0712 | 0.0050 | ND | 1 | 12/7/00 | 12/8/00 | |
| **Sodium** | EPA 273.1 | P0L0712 | 5.0 | **400** | 1 | 12/7/00 | 12/12/00 | |
| **Strontium** | EPA 200.7 | P0L0712 | 1.0 | **1.7** | 10 | 12/7/00 | 12/11/00 | |
| Vanadium | EPA 200.7 | P0L0712 | 0.050 | ND | 1 | 12/7/00 | 12/8/00 | |

Julie M. Slocum
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Law Engineering
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Client Project ID: South Mesa WQARF
70211-0-0150-02-2.2
Report Number: PJL0071

Sampled: 12/06/00
Received: 12/06/00

## TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJL0071-02 (MW-1D - Water)** | | | | | | | | |
| Zinc | EPA 200.7 | P0L0712 | 0.050 | ND | 1 | 12/7/00 | 12/8/00 | |
| **Sample ID: PJL0071-03 (MW-1S - Water)** | | | | | | | | |
| Aluminum | EPA 200.7 | P0L0712 | 0.50 | ND | 1 | 12/7/00 | 12/11/00 | |
| Antimony | EPA 200.9 | P0L0705 | 0.0040 | ND | 1 | 12/7/00 | 12/11/00 | T |
| Arsenic | EPA 200.9 | P0L0705 | 0.0030 | ND | 1 | 12/7/00 | 12/7/00 | T |
| **Barium** | EPA 200.7 | P0L0712 | 0.010 | **0.084** | 1 | 12/7/00 | 12/8/00 | |
| Beryllium | EPA 200.9 | P0L0705 | 0.00050 | ND | 1 | 12/7/00 | 12/7/00 | T |
| Cadmium | EPA 200.9 | P0L0705 | 0.00050 | ND | 1 | 12/7/00 | 12/8/00 | T |
| **Calcium** | EPA 200.7 | P0L0712 | 2.0 | **130** | 1 | 12/7/00 | 12/8/00 | |
| **Chromium** | EPA 200.9 | P0L0705 | 0.0040 | **0.0098** | 1 | 12/7/00 | 12/7/00 | T |
| Cobalt | EPA 200.7 | P0L0712 | 0.050 | ND | 1 | 12/7/00 | 12/8/00 | |
| Copper | EPA 200.7 | P0L0712 | 0.020 | ND | 1 | 12/7/00 | 12/8/00 | |
| **Iron** | EPA 200.7 | P0L0712 | 0.10 | **0.36** | 1 | 12/7/00 | 12/8/00 | |
| Lead | EPA 200.7 | P0L0712 | 0.050 | ND | 1 | 12/7/00 | 12/8/00 | |
| **Magnesium** | EPA 200.7 | P0L0712 | 0.50 | **45** | 1 | 12/7/00 | 12/8/00 | |
| Manganese | EPA 200.7 | P0L0712 | 0.020 | ND | 1 | 12/7/00 | 12/8/00 | |
| Nickel | EPA 200.7 | P0L0712 | 0.050 | ND | 1 | 12/7/00 | 12/8/00 | |
| Lithium | EPA 7430 | P0L1209 | 1.0 | ND | 1 | 12/12/00 | 12/15/00 | L |
| Selenium | EPA 200.9 | P0L0705 | 0.0040 | ND | 1 | 12/7/00 | 12/12/00 | T |
| Silver | EPA 200.7 | P0L0712 | 0.0050 | ND | 1 | 12/7/00 | 12/8/00 | |
| **Sodium** | EPA 273.1 | P0L0712 | 5.0 | **430** | 1 | 12/7/00 | 12/12/00 | |
| **Strontium** | EPA 200.7 | P0L0712 | 0.50 | **1.1** | 5 | 12/7/00 | 12/11/00 | |
| Vanadium | EPA 200.7 | P0L0712 | 0.050 | ND | 1 | 12/7/00 | 12/8/00 | |
| Zinc | EPA 200.7 | P0L0712 | 0.050 | ND | 1 | 12/7/00 | 12/8/00 | |

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Client Project ID: South Mesa WQARF
70211-0-0150-02-2.2
Report Number: PJL0071

Sampled: 12/06/00
Received: 12/06/00

## TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJL0071-04 (MW-10D - Water)** | | | | | | | | |
| Aluminum | EPA 200.7 | P0L0712 | 0.50 | ND | 1 | 12/7/00 | 12/11/00 | |
| Antimony | EPA 200.9 | P0L0705 | 0.0040 | ND | 1 | 12/7/00 | 12/11/00 | T |
| Arsenic | EPA 200.9 | P0L0705 | 0.0030 | ND | 1 | 12/7/00 | 12/7/00 | T |
| **Barium** | EPA 200.7 | P0L0712 | 0.010 | **0.12** | 1 | 12/7/00 | 12/8/00 | |
| Beryllium | EPA 200.9 | P0L0705 | 0.00050 | ND | 1 | 12/7/00 | 12/7/00 | T |
| Cadmium | EPA 200.9 | P0L0705 | 0.00050 | ND | 1 | 12/7/00 | 12/8/00 | T |
| **Calcium** | EPA 200.7 | P0L0712 | 2.0 | **180** | 1 | 12/7/00 | 12/8/00 | |
| **Chromium** | EPA 200.9 | P0L0705 | 0.0040 | **0.016** | 1 | 12/7/00 | 12/7/00 | T |
| Cobalt | EPA 200.7 | P0L0712 | 0.050 | ND | 1 | 12/7/00 | 12/8/00 | |
| Copper | EPA 200.7 | P0L0712 | 0.020 | ND | 1 | 12/7/00 | 12/8/00 | |
| **Iron** | EPA 200.7 | P0L0712 | 0.10 | **0.75** | 1 | 12/7/00 | 12/8/00 | |
| Lead | EPA 200.7 | P0L0712 | 0.050 | ND | 1 | 12/7/00 | 12/8/00 | |
| **Magnesium** | EPA 200.7 | P0L0712 | 0.50 | **63** | 1 | 12/7/00 | 12/8/00 | |
| Manganese | EPA 200.7 | P0L0712 | 0.020 | ND | 1 | 12/7/00 | 12/8/00 | |
| **Nickel** | EPA 200.7 | P0L0712 | 0.050 | **0.075** | 1 | 12/7/00 | 12/8/00 | |
| Lithium | EPA 7430 | P0L1209 | 1.0 | ND | 1 | 12/12/00 | 12/15/00 | L |
| Selenium | EPA 200.9 | P0L0705 | 0.0040 | ND | 1 | 12/7/00 | 12/12/00 | T |
| Silver | EPA 200.7 | P0L0712 | 0.0050 | ND | 1 | 12/7/00 | 12/8/00 | |
| **Sodium** | EPA 273.1 | P0L0712 | 5.0 | **350** | 1 | 12/7/00 | 12/12/00 | |
| **Strontium** | EPA 200.7 | P0L0712 | 1.0 | **1.7** | 10 | 12/7/00 | 12/12/00 | |
| Vanadium | EPA 200.7 | P0L0712 | 0.050 | ND | 1 | 12/7/00 | 12/8/00 | |
| Zinc | EPA 200.7 | P0L0712 | 0.050 | ND | 1 | 12/7/00 | 12/8/00 | |
| **Sample ID: PJL0071-05 (MW-5D - Water)** | | | | | | | | |
| **Aluminum** | EPA 200.7 | P0L0712 | 0.50 | **0.66** | 1 | 12/7/00 | 12/11/00 | |
| Antimony | EPA 200.9 | P0L0713 | 0.0040 | ND | 1 | 12/7/00 | 12/11/00 | |
| **Arsenic** | EPA 200.9 | P0L0713 | 0.0030 | **0.0049** | 1 | 12/7/00 | 12/8/00 | S |
| **Barium** | EPA 200.7 | P0L0712 | 0.010 | **0.11** | 1 | 12/7/00 | 12/8/00 | |
| Beryllium | EPA 200.9 | P0L0713 | 0.00050 | ND | 1 | 12/7/00 | 12/8/00 | C |
| Cadmium | EPA 200.9 | P0L0713 | 0.00050 | ND | 1 | 12/7/00 | 12/8/00 | |
| **Calcium** | EPA 200.7 | P0L0712 | 2.0 | **210** | 1 | 12/7/00 | 12/8/00 | |
| **Chromium** | EPA 200.9 | P0L0713 | 0.0075 | **0.039** | 1.875 | 12/7/00 | 12/15/00 | |
| Cobalt | EPA 200.7 | P0L0712 | 0.050 | ND | 1 | 12/7/00 | 12/8/00 | |
| Copper | EPA 200.7 | P0L0712 | 0.020 | ND | 1 | 12/7/00 | 12/8/00 | |
| **Iron** | EPA 200.7 | P0L0712 | 0.10 | **1.7** | 1 | 12/7/00 | 12/8/00 | |
| Lead | EPA 200.7 | P0L0712 | 0.050 | ND | 1 | 12/7/00 | 12/8/00 | |
| **Magnesium** | EPA 200.7 | P0L0712 | 0.50 | **75** | 1 | 12/7/00 | 12/8/00 | |
| **Manganese** | EPA 200.7 | P0L0712 | 0.020 | **0.059** | 1 | 12/7/00 | 12/8/00 | |
| Nickel | EPA 200.7 | P0L0712 | 0.050 | ND | 1 | 12/7/00 | 12/8/00 | |
| Lithium | EPA 7430 | P0L1209 | 1.0 | ND | 1 | 12/12/00 | 12/15/00 | L |
| Selenium | EPA 200.9 | P0L0713 | 0.0040 | ND | 1 | 12/7/00 | 12/12/00 | |
| Silver | EPA 200.7 | P0L0712 | 0.0050 | ND | 1 | 12/7/00 | 12/8/00 | |
| **Sodium** | EPA 273.1 | P0L0712 | 5.0 | **430** | 1 | 12/7/00 | 12/12/00 | |
| **Strontium** | EPA 200.7 | P0L0712 | 1.0 | **2.0** | 10 | 12/7/00 | 12/12/00 | |
| Vanadium | EPA 200.7 | P0L0712 | 0.050 | ND | 1 | 12/7/00 | 12/8/00 | |

Julie M. Slocum
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4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: South Mesa WQARF
70211-0-0150-02-2.2
Report Number: PJL0071

Sampled: 12/06/00
Received: 12/06/00

## TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJL0071-05 (MW-5D - Water)** | | | | | | | | |
| Zinc | EPA 200.7 | P0L0712 | 0.050 | ND | 1 | 12/7/00 | 12/8/00 | |
| **Sample ID: PJL0071-06 (MW-AM-8S - Water)** | | | | | | | | |
| Aluminum | EPA 200.7 | P0L0712 | 0.50 | ND | 1 | 12/7/00 | 12/11/00 | |
| Antimony | EPA 200.9 | P0L0713 | 0.0040 | ND | 1 | 12/7/00 | 12/11/00 | |
| **Arsenic** | EPA 200.9 | P0L0713 | 0.0060 | **0.11** | 2 | 12/7/00 | 12/8/00 | S |
| **Barium** | EPA 200.7 | P0L0712 | 0.010 | **0.095** | 1 | 12/7/00 | 12/8/00 | |
| Beryllium | EPA 200.9 | P0L0713 | 0.00050 | ND | 1 | 12/7/00 | 12/8/00 | C |
| Cadmium | EPA 200.9 | P0L0713 | 0.00050 | ND | 1 | 12/7/00 | 12/8/00 | |
| **Calcium** | EPA 200.7 | P0L0712 | 2.0 | **150** | 1 | 12/7/00 | 12/8/00 | |
| **Chromium** | EPA 200.9 | P0L0713 | 0.15 | **1.3** | 37.51 | 12/7/00 | 12/15/00 | |
| Cobalt | EPA 200.7 | P0L0712 | 0.050 | ND | 1 | 12/7/00 | 12/8/00 | |
| **Copper** | EPA 200.7 | P0L0712 | 0.020 | **0.024** | 1 | 12/7/00 | 12/8/00 | |
| **Iron** | EPA 200.7 | P0L0712 | 0.10 | **16** | 1 | 12/7/00 | 12/8/00 | |
| Lead | EPA 200.7 | P0L0712 | 0.050 | ND | 1 | 12/7/00 | 12/8/00 | |
| **Magnesium** | EPA 200.7 | P0L0712 | 0.50 | **54** | 1 | 12/7/00 | 12/8/00 | |
| **Manganese** | EPA 200.7 | P0L0712 | 0.020 | **0.49** | 1 | 12/7/00 | 12/8/00 | |
| **Nickel** | EPA 200.7 | P0L0712 | 0.050 | **0.097** | 1 | 12/7/00 | 12/8/00 | |
| Lithium | EPA 7430 | P0L1209 | 1.0 | ND | 1 | 12/12/00 | 12/15/00 | L |
| Selenium | EPA 200.9 | P0L0713 | 0.0040 | ND | 1 | 12/7/00 | 12/12/00 | |
| Silver | EPA 200.7 | P0L0712 | 0.0050 | ND | 1 | 12/7/00 | 12/8/00 | |
| **Sodium** | EPA 273.1 | P0L0712 | 10 | **560** | 2 | 12/7/00 | 12/14/00 | |
| **Strontium** | EPA 200.7 | P0L0712 | 0.50 | **1.3** | 5 | 12/7/00 | 12/12/00 | |
| Vanadium | EPA 200.7 | P0L0712 | 0.050 | ND | 1 | 12/7/00 | 12/8/00 | |
| Zinc | EPA 200.7 | P0L0712 | 0.050 | ND | 1 | 12/7/00 | 12/8/00 | |

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Report Number: PJL0071

Sampled: 12/06/00
Received: 12/06/00

## TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJL0071-06RE1 (MW-AM-8S - Water)** | | | | | | | | |
| Chromium VI | SM3500CR-D | P0L0704 | 0.025 | ND | 1 | 12/7/00 | 12/7/00 | |
| **Sample ID: PJL0071-07 (MW-9S - Water)** | | | | | | | | |
| Aluminum | EPA 200.7 | P0L0712 | 0.50 | ND | 1 | 12/7/00 | 12/11/00 | |
| Antimony | EPA 200.9 | P0L0713 | 0.0040 | ND | 1 | 12/7/00 | 12/11/00 | |
| **Arsenic** | EPA 200.9 | P0L0713 | 0.0060 | **0.12** | 2 | 12/7/00 | 12/8/00 | S |
| **Barium** | EPA 200.7 | P0L0712 | 0.010 | **0.098** | 1 | 12/7/00 | 12/8/00 | |
| Beryllium | EPA 200.9 | P0L0713 | 0.00050 | ND | 1 | 12/7/00 | 12/8/00 | C |
| Cadmium | EPA 200.9 | P0L0713 | 0.00050 | ND | 1 | 12/7/00 | 12/8/00 | |
| **Calcium** | EPA 200.7 | P0L0712 | 2.0 | **150** | 1 | 12/7/00 | 12/8/00 | |
| **Chromium** | EPA 200.9 | P0L0713 | 0.30 | **2.3** | 75 | 12/7/00 | 12/15/00 | |
| Chromium VI | SM3500CR-D | P0L0723 | 0.025 | ND | 1 | 12/7/00 | 12/7/00 | H |
| Cobalt | EPA 200.7 | P0L0712 | 0.050 | ND | 1 | 12/7/00 | 12/8/00 | |
| **Copper** | EPA 200.7 | P0L0712 | 0.020 | **0.031** | 1 | 12/7/00 | 12/8/00 | |
| **Iron** | EPA 200.7 | P0L0712 | 0.10 | **20** | 1 | 12/7/00 | 12/8/00 | |
| Lead | EPA 200.7 | P0L0712 | 0.050 | ND | 1 | 12/7/00 | 12/8/00 | |
| **Magnesium** | EPA 200.7 | P0L0712 | 0.50 | **52** | 1 | 12/7/00 | 12/8/00 | |
| **Manganese** | EPA 200.7 | P0L0712 | 0.020 | **0.59** | 1 | 12/7/00 | 12/8/00 | |
| **Nickel** | EPA 200.7 | P0L0712 | 0.050 | **0.12** | 1 | 12/7/00 | 12/8/00 | |
| Lithium | EPA 7430 | P0L1209 | 1.0 | ND | 1 | 12/12/00 | 12/15/00 | L |
| Selenium | EPA 200.9 | P0L0713 | 0.0040 | ND | 1 | 12/7/00 | 12/12/00 | |
| Silver | EPA 200.7 | P0L0712 | 0.0050 | ND | 1 | 12/7/00 | 12/8/00 | |
| **Sodium** | EPA 273.1 | P0L0712 | 10 | **550** | 2 | 12/7/00 | 12/14/00 | |
| **Strontium** | EPA 200.7 | P0L0712 | 0.50 | **1.3** | 5 | 12/7/00 | 12/12/00 | |
| Vanadium | EPA 200.7 | P0L0712 | 0.050 | ND | 1 | 12/7/00 | 12/8/00 | |
| Zinc | EPA 200.7 | P0L0712 | 0.050 | ND | 1 | 12/7/00 | 12/8/00 | |

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## TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJL0071-08 (MW-LW - Water)** | | | | | | | | |
| Aluminum | EPA 200.7 | P0L0712 | 0.50 | ND | 1 | 12/7/00 | 12/11/00 | |
| Antimony | EPA 200.9 | P0L0713 | 0.0040 | ND | 1 | 12/7/00 | 12/11/00 | |
| **Arsenic** | EPA 200.9 | P0L0713 | 0.0030 | **0.0039** | 1 | 12/7/00 | 12/8/00 | S |
| **Barium** | EPA 200.7 | P0L0712 | 0.010 | **0.054** | 1 | 12/7/00 | 12/8/00 | |
| Beryllium | EPA 200.9 | P0L0713 | 0.00050 | ND | 1 | 12/7/00 | 12/8/00 | C |
| Cadmium | EPA 200.9 | P0L0713 | 0.00050 | ND | 1 | 12/7/00 | 12/8/00 | |
| **Calcium** | EPA 200.7 | P0L0712 | 2.0 | **140** | 1 | 12/7/00 | 12/8/00 | |
| **Chromium** | EPA 200.9 | P0L0713 | 0.020 | **0.074** | 5 | 12/7/00 | 12/15/00 | |
| Cobalt | EPA 200.7 | P0L0712 | 0.050 | ND | 1 | 12/7/00 | 12/8/00 | |
| Copper | EPA 200.7 | P0L0712 | 0.020 | ND | 1 | 12/7/00 | 12/8/00 | |
| **Iron** | EPA 200.7 | P0L0712 | 0.10 | **3.9** | 1 | 12/7/00 | 12/8/00 | |
| Lead | EPA 200.7 | P0L0712 | 0.050 | ND | 1 | 12/7/00 | 12/8/00 | |
| **Magnesium** | EPA 200.7 | P0L0712 | 0.50 | **53** | 1 | 12/7/00 | 12/8/00 | |
| **Manganese** | EPA 200.7 | P0L0712 | 0.020 | **0.061** | 1 | 12/7/00 | 12/8/00 | |
| Nickel | EPA 200.7 | P0L0712 | 0.050 | ND | 1 | 12/7/00 | 12/8/00 | |
| Lithium | EPA 7430 | P0L1209 | 1.0 | ND | 1 | 12/12/00 | 12/15/00 | L |
| Selenium | EPA 200.9 | P0L0713 | 0.0040 | ND | 1 | 12/7/00 | 12/12/00 | |
| Silver | EPA 200.7 | P0L0712 | 0.0050 | ND | 1 | 12/7/00 | 12/8/00 | |
| **Sodium** | EPA 273.1 | P0L0712 | 5.0 | **450** | 1 | 12/7/00 | 12/12/00 | |
| **Strontium** | EPA 200.7 | P0L0712 | 0.50 | **1.2** | 5 | 12/7/00 | 12/12/00 | |
| Vanadium | EPA 200.7 | P0L0712 | 0.050 | ND | 1 | 12/7/00 | 12/8/00 | |
| Zinc | EPA 200.7 | P0L0712 | 0.050 | ND | 1 | 12/7/00 | 12/8/00 | |
| **Sample ID: PJL0071-08RE1 (MW-LW - Water)** | | | | | | | | |
| Chromium VI | SM3500CR-D | P0L0704 | 0.025 | ND | 1 | 12/7/00 | 12/7/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: South Mesa WQARF
70211-0-0150-02-2.2
Report Number: PJL0071

Sampled: 12/06/00
Received: 12/06/00

METHOD BLANK/QC DATA

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L1507 Extracted: 12/15/00** | | | | | | | | | | |
| **Blank Analyzed: 12/15/00 (P0L1507-BLK1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | |
| Benzene | ND | 2.0 | ug/l | | | | | | | |
| Bromobenzene | ND | 5.0 | ug/l | | | | | | | |
| Bromochloromethane | ND | 5.0 | ug/l | | | | | | | |
| Bromodichloromethane | ND | 2.0 | ug/l | | | | | | | |
| Bromoform | ND | 5.0 | ug/l | | | | | | | |
| Bromomethane | ND | 5.0 | ug/l | | | | | | | |
| 2-Butanone (MEK) | ND | 10 | ug/l | | | | | | | |
| n-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| sec-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| tert-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| Carbon Disulfide | ND | 5.0 | ug/l | | | | | | | C |
| Carbon tetrachloride | ND | 5.0 | ug/l | | | | | | | |
| Chlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| Chloroethane | ND | 5.0 | ug/l | | | | | | | |
| Chloroform | ND | 2.0 | ug/l | | | | | | | |
| Chloromethane | ND | 5.0 | ug/l | | | | | | | |
| 2-Chlorotoluene | ND | 5.0 | ug/l | | | | | | | |
| 4-Chlorotoluene | ND | 5.0 | ug/l | | | | | | | |
| Dibromochloromethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/l | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 2.0 | ug/l | | | | | | | |
| Dibromomethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| Dichlorodifluoromethane | ND | 5.0 | ug/l | | | | | | | C |
| 1,1-Dichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,1-Dichloroethene | ND | 5.0 | ug/l | | | | | | | |

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Client Project ID: South Mesa WQARF
70211-0-0150-02-2.2
Report Number: PJL0071

Sampled: 12/06/00
Received: 12/06/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L1507 Extracted: 12/15/00** | | | | | | | | | | |
| **Blank Analyzed: 12/15/00 (P0L1507-BLK1)** | | | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 2.0 | ug/l | | | | | | | |
| trans-1,2-Dichloroethene | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,3-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 2,2-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,1-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| cis-1,3-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| Ethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 5.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 10 | ug/l | | | | | | | |
| Iodomethane | ND | 2.0 | ug/l | | | | | | | |
| Isopropylbenzene | ND | 2.0 | ug/l | | | | | | | |
| p-Isopropyltoluene | ND | 2.0 | ug/l | | | | | | | |
| Methylene chloride | ND | 5.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 5.0 | ug/l | | | | | | | |
| Naphthalene | ND | 5.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Styrene | ND | 2.0 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/l | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 2.0 | ug/l | | | | | | | |
| Toluene | ND | 2.0 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 5.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,1,2-Trichloroethane | ND | 2.0 | ug/l | | | | | | | |
| Trichloroethene | ND | 2.0 | ug/l | | | | | | | |
| Trichlorofluoromethane | ND | 5.0 | ug/l | | | | | | | |

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Report Number: PJL0071

Sampled: 12/06/00
Received: 12/06/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L1507 Extracted: 12/15/00** | | | | | | | | | | |
| **Blank Analyzed: 12/15/00 (P0L1507-BLK1)** | | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 10 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Vinyl acetate | ND | 5.0 | ug/l | | | | | | | |
| Vinyl chloride | ND | 5.0 | ug/l | | | | | | | |
| Xylenes, Total | ND | 10 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *21.2* | | *ug/l* | *25.0* | | *84.8* | *70-160* | | | |
| *Surrogate: Toluene-d8* | *27.3* | | *ug/l* | *25.0* | | *109* | *75-140* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *23.6* | | *ug/l* | *25.0* | | *94.4* | *75-135* | | | |
| **LCS Analyzed: 12/15/00 (P0L1507-BS1)** | | | | | | | | | | |
| **Acetone** | **27.3** | 20 | ug/l | 25.0 | | 109 | 35-150 | | | |
| **Benzene** | **24.1** | 2.0 | ug/l | 25.0 | | 96.4 | 75-120 | | | |
| **Bromobenzene** | **23.9** | 5.0 | ug/l | 25.0 | | 95.6 | 65-150 | | | |
| **Bromochloromethane** | **24.2** | 5.0 | ug/l | 25.0 | | 96.8 | 60-155 | | | |
| **Bromodichloromethane** | **22.4** | 2.0 | ug/l | 25.0 | | 89.6 | 60-155 | | | |
| **Bromoform** | **29.8** | 5.0 | ug/l | 25.0 | | 119 | 25-160 | | | |
| **Bromomethane** | **18.9** | 5.0 | ug/l | 25.0 | | 75.6 | 55-170 | | | |
| **2-Butanone (MEK)** | **25.6** | 10 | ug/l | 25.0 | | 102 | 35-165 | | | |
| **n-Butylbenzene** | **23.1** | 5.0 | ug/l | 25.0 | | 92.4 | 65-140 | | | |
| **sec-Butylbenzene** | **23.8** | 5.0 | ug/l | 25.0 | | 95.2 | 60-145 | | | |
| **tert-Butylbenzene** | **24.5** | 5.0 | ug/l | 25.0 | | 98.0 | 65-145 | | | |
| **Carbon Disulfide** | **37.3** | 5.0 | ug/l | 25.0 | | 149 | 65-155 | | | C |
| **Carbon tetrachloride** | **21.0** | 5.0 | ug/l | 25.0 | | 84.0 | 65-150 | | | |
| **Chlorobenzene** | **27.8** | 2.0 | ug/l | 25.0 | | 111 | 75-130 | | | |
| **Chloroethane** | **25.2** | 5.0 | ug/l | 25.0 | | 101 | 65-165 | | | |
| **Chloroform** | **21.3** | 2.0 | ug/l | 25.0 | | 85.2 | 70-130 | | | |
| **Chloromethane** | **26.9** | 5.0 | ug/l | 25.0 | | 108 | 60-165 | | | |
| **2-Chlorotoluene** | **25.5** | 5.0 | ug/l | 25.0 | | 102 | 65-145 | | | |
| **4-Chlorotoluene** | **25.2** | 5.0 | ug/l | 25.0 | | 101 | 70-145 | | | |
| **Dibromochloromethane** | **25.3** | 2.0 | ug/l | 25.0 | | 101 | 55-155 | | | |

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70211-0-0150-02-2.2
Report Number: PJL0071

Sampled: 12/06/00
Received: 12/06/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L1507 Extracted: 12/15/00** | | | | | | | | | | |
| **LCS Analyzed: 12/15/00 (P0L1507-BS1)** | | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | 24.3 | 5.0 | ug/l | 25.0 | | 97.2 | 40-150 | | | |
| 1,2-Dibromoethane (EDB) | 26.1 | 2.0 | ug/l | 25.0 | | 104 | 55-155 | | | |
| Dibromomethane | 23.7 | 2.0 | ug/l | 25.0 | | 94.8 | 60-155 | | | |
| 1,2-Dichlorobenzene | 24.8 | 2.0 | ug/l | 25.0 | | 99.2 | 65-140 | | | |
| 1,3-Dichlorobenzene | 24.4 | 2.0 | ug/l | 25.0 | | 97.6 | 65-145 | | | |
| 1,4-Dichlorobenzene | 25.1 | 2.0 | ug/l | 25.0 | | 100 | 65-140 | | | |
| Dichlorodifluoromethane | 33.3 | 5.0 | ug/l | 25.0 | | 133 | 30-190 | | | C |
| 1,1-Dichloroethane | 20.6 | 2.0 | ug/l | 25.0 | | 82.4 | 70-130 | | | |
| 1,2-Dichloroethane | 19.9 | 2.0 | ug/l | 25.0 | | 79.6 | 70-130 | | | |
| 1,1-Dichloroethene | 20.3 | 5.0 | ug/l | 25.0 | | 81.2 | 75-125 | | | |
| cis-1,2-Dichloroethene | 21.6 | 2.0 | ug/l | 25.0 | | 86.4 | 70-130 | | | |
| trans-1,2-Dichloroethene | 22.2 | 2.0 | ug/l | 25.0 | | 88.8 | 55-175 | | | |
| 1,2-Dichloropropane | 23.8 | 2.0 | ug/l | 25.0 | | 95.2 | 70-130 | | | |
| 1,3-Dichloropropane | 26.2 | 2.0 | ug/l | 25.0 | | 105 | 60-150 | | | |
| 2,2-Dichloropropane | 20.7 | 2.0 | ug/l | 25.0 | | 82.8 | 15-200 | | | |
| 1,1-Dichloropropene | 22.3 | 2.0 | ug/l | 25.0 | | 89.2 | 65-150 | | | |
| cis-1,3-Dichloropropene | 23.6 | 2.0 | ug/l | 25.0 | | 94.4 | 65-150 | | | |
| trans-1,3-Dichloropropene | 25.6 | 2.0 | ug/l | 25.0 | | 102 | 60-150 | | | |
| Ethylbenzene | 28.9 | 2.0 | ug/l | 25.0 | | 116 | 60-150 | | | |
| Hexachlorobutadiene | 23.8 | 5.0 | ug/l | 25.0 | | 95.2 | 55-150 | | | |
| 2-Hexanone | 27.1 | 10 | ug/l | 25.0 | | 108 | 35-165 | | | |
| Iodomethane | 37.5 | 2.0 | ug/l | 25.0 | | 150 | 65-160 | | | |
| Isopropylbenzene | 27.3 | 2.0 | ug/l | 25.0 | | 109 | 65-145 | | | |
| p-Isopropyltoluene | 22.7 | 2.0 | ug/l | 25.0 | | 90.8 | 60-145 | | | |
| Methylene chloride | 22.9 | 5.0 | ug/l | 25.0 | | 91.6 | 65-160 | | | |
| 4-Methyl-2-pentanone (MIBK) | 24.6 | 10 | ug/l | 25.0 | | 98.4 | 40-165 | | | |
| Methyl-tert-butyl Ether (MTBE) | 20.1 | 5.0 | ug/l | 25.0 | | 80.4 | 60-160 | | | |
| Naphthalene | 23.2 | 5.0 | ug/l | 25.0 | | 92.8 | 50-150 | | | |
| n-Propylbenzene | 23.1 | 2.0 | ug/l | 25.0 | | 92.4 | 70-145 | | | |
| Styrene | 28.6 | 2.0 | ug/l | 25.0 | | 114 | 65-150 | | | |
| 1,1,1,2-Tetrachloroethane | 27.1 | 5.0 | ug/l | 25.0 | | 108 | 60-155 | | | |

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Report Number: PJL0071

Sampled: 12/06/00
Received: 12/06/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L1507 Extracted: 12/15/00** | | | | | | | | | | |
| **LCS Analyzed: 12/15/00 (P0L1507-BS1)** | | | | | | | | | | |
| **1,1,2,2-Tetrachloroethane** | **23.4** | 2.0 | ug/l | 25.0 | | 93.6 | 65-150 | | | |
| **Tetrachloroethene** | **27.9** | 2.0 | ug/l | 25.0 | | 112 | 70-130 | | | |
| **Toluene** | **26.7** | 2.0 | ug/l | 25.0 | | 107 | 70-125 | | | |
| **1,2,3-Trichlorobenzene** | **23.4** | 5.0 | ug/l | 25.0 | | 93.6 | 55-150 | | | |
| **1,2,4-Trichlorobenzene** | **24.0** | 5.0 | ug/l | 25.0 | | 96.0 | 60-145 | | | |
| **1,1,1-Trichloroethane** | **20.6** | 2.0 | ug/l | 25.0 | | 82.4 | 70-130 | | | |
| **1,1,2-Trichloroethane** | **28.5** | 2.0 | ug/l | 25.0 | | 114 | 70-130 | | | |
| **Trichloroethene** | **25.3** | 2.0 | ug/l | 25.0 | | 101 | 75-120 | | | |
| **Trichlorofluoromethane** | **20.8** | 5.0 | ug/l | 25.0 | | 83.2 | 10-200 | | | |
| **1,2,3-Trichloropropane** | **22.5** | 10 | ug/l | 25.0 | | 90.0 | 55-150 | | | |
| **1,2,4-Trimethylbenzene** | **23.2** | 2.0 | ug/l | 25.0 | | 92.8 | 65-150 | | | |
| **1,3,5-Trimethylbenzene** | **22.9** | 2.0 | ug/l | 25.0 | | 91.6 | 65-150 | | | |
| **Vinyl acetate** | **31.0** | 5.0 | ug/l | 25.0 | | 124 | 50-160 | | | |
| **Vinyl chloride** | **25.3** | 5.0 | ug/l | 25.0 | | 101 | 25-200 | | | |
| **Xylenes, Total** | **87.6** | 10 | ug/l | 75.0 | | 117 | 65-145 | | | |
| *Surrogate: Dibromofluoromethane* | *22.0* | | *ug/l* | *25.0* | | *88.0* | *70-160* | | | |
| *Surrogate: Toluene-d8* | *27.1* | | *ug/l* | *25.0* | | *108* | *75-140* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *24.4* | | *ug/l* | *25.0* | | *97.6* | *75-135* | | | |
| **LCS Dup Analyzed: 12/15/00 (P0L1507-BSD1)** | | | | | | | | | | |
| **Acetone** | **22.3** | 20 | ug/l | 25.0 | | 89.2 | 35-150 | 20.2 | 20 | R2 |
| **Benzene** | **25.8** | 2.0 | ug/l | 25.0 | | 103 | 75-120 | 6.81 | 20 | |
| **Bromobenzene** | **25.8** | 5.0 | ug/l | 25.0 | | 103 | 65-150 | 7.65 | 20 | |
| **Bromochloromethane** | **26.6** | 5.0 | ug/l | 25.0 | | 106 | 60-155 | 9.45 | 20 | |
| **Bromodichloromethane** | **23.1** | 2.0 | ug/l | 25.0 | | 92.4 | 60-155 | 3.08 | 20 | |
| **Bromoform** | **33.3** | 5.0 | ug/l | 25.0 | | 133 | 25-160 | 11.1 | 20 | |
| **Bromomethane** | **23.3** | 5.0 | ug/l | 25.0 | | 93.2 | 55-170 | 20.9 | 20 | R2 |
| **2-Butanone (MEK)** | **25.8** | 10 | ug/l | 25.0 | | 103 | 35-165 | 0.778 | 20 | |
| **n-Butylbenzene** | **25.5** | 5.0 | ug/l | 25.0 | | 102 | 65-140 | 9.88 | 20 | |
| **sec-Butylbenzene** | **25.7** | 5.0 | ug/l | 25.0 | | 103 | 60-145 | 7.68 | 20 | |
| **tert-Butylbenzene** | **26.3** | 5.0 | ug/l | 25.0 | | 105 | 65-145 | 7.09 | 20 | |

Julie M. Slocum
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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: South Mesa WQARF
70211-0-0150-02-2.2
Report Number: PJL0071

Sampled: 12/06/00
Received: 12/06/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L1507 Extracted: 12/15/00** | | | | | | | | | | |
| **LCS Dup Analyzed: 12/15/00 (P0L1507-BSD1)** | | | | | | | | | | |
| Carbon Disulfide | 38.8 | 5.0 | ug/l | 25.0 | | 155 | 65-155 | 3.94 | 20 | C |
| Carbon tetrachloride | 21.3 | 5.0 | ug/l | 25.0 | | 85.2 | 65-150 | 1.42 | 20 | |
| Chlorobenzene | 30.5 | 2.0 | ug/l | 25.0 | | 122 | 75-130 | 9.26 | 20 | |
| Chloroethane | 25.9 | 5.0 | ug/l | 25.0 | | 104 | 65-165 | 2.74 | 20 | |
| Chloroform | 21.3 | 2.0 | ug/l | 25.0 | | 85.2 | 70-130 | 0 | 20 | |
| Chloromethane | 31.8 | 5.0 | ug/l | 25.0 | | 127 | 60-165 | 16.7 | 20 | |
| 2-Chlorotoluene | 26.5 | 5.0 | ug/l | 25.0 | | 106 | 65-145 | 3.85 | 20 | |
| 4-Chlorotoluene | 25.9 | 5.0 | ug/l | 25.0 | | 104 | 70-145 | 2.74 | 20 | |
| Dibromochloromethane | 28.7 | 2.0 | ug/l | 25.0 | | 115 | 55-155 | 12.6 | 20 | |
| 1,2-Dibromo-3-chloropropane | 30.9 | 5.0 | ug/l | 25.0 | | 124 | 40-150 | 23.9 | 20 | R2 |
| 1,2-Dibromoethane (EDB) | 30.4 | 2.0 | ug/l | 25.0 | | 122 | 55-155 | 15.2 | 20 | |
| Dibromomethane | 25.0 | 2.0 | ug/l | 25.0 | | 100 | 60-155 | 5.34 | 20 | |
| 1,2-Dichlorobenzene | 26.7 | 2.0 | ug/l | 25.0 | | 107 | 65-140 | 7.38 | 20 | |
| 1,3-Dichlorobenzene | 26.4 | 2.0 | ug/l | 25.0 | | 106 | 65-145 | 7.87 | 20 | |
| 1,4-Dichlorobenzene | 26.5 | 2.0 | ug/l | 25.0 | | 106 | 65-140 | 5.43 | 20 | |
| Dichlorodifluoromethane | 35.3 | 5.0 | ug/l | 25.0 | | 141 | 30-190 | 5.83 | 20 | C |
| 1,1-Dichloroethane | 21.6 | 2.0 | ug/l | 25.0 | | 86.4 | 70-130 | 4.74 | 20 | |
| 1,2-Dichloroethane | 20.7 | 2.0 | ug/l | 25.0 | | 82.8 | 70-130 | 3.94 | 20 | |
| 1,1-Dichloroethene | 22.1 | 5.0 | ug/l | 25.0 | | 88.4 | 75-125 | 8.49 | 20 | |
| cis-1,2-Dichloroethene | 23.6 | 2.0 | ug/l | 25.0 | | 94.4 | 70-130 | 8.85 | 20 | |
| trans-1,2-Dichloroethene | 23.8 | 2.0 | ug/l | 25.0 | | 95.2 | 55-175 | 6.96 | 20 | |
| 1,2-Dichloropropane | 25.0 | 2.0 | ug/l | 25.0 | | 100 | 70-130 | 4.92 | 20 | |
| 1,3-Dichloropropane | 29.3 | 2.0 | ug/l | 25.0 | | 117 | 60-150 | 11.2 | 20 | |
| 2,2-Dichloropropane | 21.2 | 2.0 | ug/l | 25.0 | | 84.8 | 15-200 | 2.39 | 20 | |
| 1,1-Dichloropropene | 22.9 | 2.0 | ug/l | 25.0 | | 91.6 | 65-150 | 2.65 | 20 | |
| cis-1,3-Dichloropropene | 25.5 | 2.0 | ug/l | 25.0 | | 102 | 65-150 | 7.74 | 20 | |
| trans-1,3-Dichloropropene | 28.2 | 2.0 | ug/l | 25.0 | | 113 | 60-150 | 9.67 | 20 | |
| Ethylbenzene | 31.1 | 2.0 | ug/l | 25.0 | | 124 | 60-150 | 7.33 | 20 | |
| Hexachlorobutadiene | 28.8 | 5.0 | ug/l | 25.0 | | 115 | 55-150 | 19.0 | 20 | |
| 2-Hexanone | 30.8 | 10 | ug/l | 25.0 | | 123 | 35-165 | 12.8 | 20 | |
| Iodomethane | 35.4 | 2.0 | ug/l | 25.0 | | 142 | 65-160 | 5.76 | 20 | |

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Client Project ID: South Mesa WQARF
70211-0-0150-02-2.2
Report Number: PJL0071

Sampled: 12/06/00
Received: 12/06/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L1507 Extracted: 12/15/00** | | | | | | | | | | |
| **LCS Dup Analyzed: 12/15/00 (P0L1507-BSD1)** | | | | | | | | | | |
| **Isopropylbenzene** | **29.7** | 2.0 | ug/l | 25.0 | | 119 | 65-145 | 8.42 | 20 | |
| **p-Isopropyltoluene** | **23.8** | 2.0 | ug/l | 25.0 | | 95.2 | 60-145 | 4.73 | 20 | |
| **Methylene chloride** | **23.8** | 5.0 | ug/l | 25.0 | | 95.2 | 65-160 | 3.85 | 20 | |
| **4-Methyl-2-pentanone (MIBK)** | **29.3** | 10 | ug/l | 25.0 | | 117 | 40-165 | 17.4 | 20 | |
| **Methyl-tert-butyl Ether (MTBE)** | **20.5** | 5.0 | ug/l | 25.0 | | 82.0 | 60-160 | 1.97 | 20 | |
| **Naphthalene** | **30.8** | 5.0 | ug/l | 25.0 | | 123 | 50-150 | 28.1 | 20 | R2 |
| **n-Propylbenzene** | **24.3** | 2.0 | ug/l | 25.0 | | 97.2 | 70-145 | 5.06 | 20 | |
| **Styrene** | **32.2** | 2.0 | ug/l | 25.0 | | 129 | 65-150 | 11.8 | 20 | |
| **1,1,1,2-Tetrachloroethane** | **29.0** | 5.0 | ug/l | 25.0 | | 116 | 60-155 | 6.77 | 20 | |
| **1,1,2,2-Tetrachloroethane** | **28.5** | 2.0 | ug/l | 25.0 | | 114 | 65-150 | 19.7 | 20 | |
| **Tetrachloroethene** | **30.1** | 2.0 | ug/l | 25.0 | | 120 | 70-130 | 7.59 | 20 | |
| **Toluene** | **29.7** | 2.0 | ug/l | 25.0 | | 119 | 70-125 | 10.6 | 20 | |
| **1,2,3-Trichlorobenzene** | **29.9** | 5.0 | ug/l | 25.0 | | 120 | 55-150 | 24.4 | 20 | R2 |
| **1,2,4-Trichlorobenzene** | **27.9** | 5.0 | ug/l | 25.0 | | 112 | 60-145 | 15.0 | 20 | |
| **1,1,1-Trichloroethane** | **21.1** | 2.0 | ug/l | 25.0 | | 84.4 | 70-130 | 2.40 | 20 | |
| **1,1,2-Trichloroethane** | **30.2** | 2.0 | ug/l | 25.0 | | 121 | 70-130 | 5.79 | 20 | |
| **Trichloroethene** | **26.6** | 2.0 | ug/l | 25.0 | | 106 | 75-120 | 5.01 | 20 | |
| **Trichlorofluoromethane** | **21.4** | 5.0 | ug/l | 25.0 | | 85.6 | 10-200 | 2.84 | 20 | |
| **1,2,3-Trichloropropane** | **27.2** | 10 | ug/l | 25.0 | | 109 | 55-150 | 18.9 | 20 | |
| **1,2,4-Trimethylbenzene** | **24.2** | 2.0 | ug/l | 25.0 | | 96.8 | 65-150 | 4.22 | 20 | |
| **1,3,5-Trimethylbenzene** | **24.0** | 2.0 | ug/l | 25.0 | | 96.0 | 65-150 | 4.69 | 20 | |
| **Vinyl acetate** | **31.8** | 5.0 | ug/l | 25.0 | | 127 | 50-160 | 2.55 | 20 | |
| **Vinyl chloride** | **27.2** | 5.0 | ug/l | 25.0 | | 109 | 25-200 | 7.24 | 20 | |
| **Xylenes, Total** | **95.4** | 10 | ug/l | 75.0 | | 127 | 65-145 | 8.52 | 20 | |
| *Surrogate: Dibromofluoromethane* | *22.8* | | *ug/l* | *25.0* | | *91.2* | *70-160* | | | |
| *Surrogate: Toluene-d8* | *29.6* | | *ug/l* | *25.0* | | *118* | *75-140* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.2* | | *ug/l* | *25.0* | | *101* | *75-135* | | | |

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Client Project ID: South Mesa WQARF
70211-0-0150-02-2.2
Report Number: PJL0071

Sampled: 12/06/00
Received: 12/06/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L1507 Extracted: 12/15/00** | | | | | | | | | | |
| **Matrix Spike Analyzed: 12/15/00 (P0L1507-MS1)** | | | | | **Source: PJL0071-03** | | | | | |
| Acetone | 20.7 | 20 | ug/l | 25.0 | ND | 82.8 | 35-150 | | | |
| Benzene | 24.8 | 2.0 | ug/l | 25.0 | ND | 99.2 | 75-120 | | | |
| Bromobenzene | 26.2 | 5.0 | ug/l | 25.0 | ND | 105 | 65-150 | | | |
| Bromochloromethane | 23.5 | 5.0 | ug/l | 25.0 | ND | 94.0 | 60-155 | | | |
| Bromodichloromethane | 21.0 | 2.0 | ug/l | 25.0 | ND | 84.0 | 60-155 | | | |
| Bromoform | 33.4 | 5.0 | ug/l | 25.0 | ND | 134 | 25-160 | | | |
| Bromomethane | 16.3 | 5.0 | ug/l | 25.0 | ND | 65.2 | 55-170 | | | |
| 2-Butanone (MEK) | 26.1 | 10 | ug/l | 25.0 | ND | 104 | 35-165 | | | |
| n-Butylbenzene | 23.3 | 5.0 | ug/l | 25.0 | ND | 93.2 | 65-140 | | | |
| sec-Butylbenzene | 24.8 | 5.0 | ug/l | 25.0 | ND | 99.2 | 60-145 | | | |
| tert-Butylbenzene | 26.2 | 5.0 | ug/l | 25.0 | ND | 105 | 65-145 | | | |
| Carbon Disulfide | 38.7 | 5.0 | ug/l | 25.0 | ND | 155 | 65-155 | | | C |
| Carbon tetrachloride | 17.7 | 5.0 | ug/l | 25.0 | ND | 70.8 | 65-150 | | | |
| Chlorobenzene | 30.9 | 2.0 | ug/l | 25.0 | ND | 124 | 75-130 | | | |
| Chloroethane | 23.2 | 5.0 | ug/l | 25.0 | ND | 92.8 | 65-165 | | | |
| Chloroform | 21.1 | 2.0 | ug/l | 25.0 | ND | 84.4 | 70-130 | | | |
| Chloromethane | 24.6 | 5.0 | ug/l | 25.0 | ND | 98.4 | 60-165 | | | |
| 2-Chlorotoluene | 27.8 | 5.0 | ug/l | 25.0 | ND | 111 | 65-145 | | | |
| 4-Chlorotoluene | 20.3 | 5.0 | ug/l | 25.0 | ND | 81.2 | 70-145 | | | |
| Dibromochloromethane | 28.0 | 2.0 | ug/l | 25.0 | ND | 112 | 55-155 | | | |
| 1,2-Dibromo-3-chloropropane | 31.1 | 5.0 | ug/l | 25.0 | ND | 124 | 40-150 | | | |
| 1,2-Dibromoethane (EDB) | 30.7 | 2.0 | ug/l | 25.0 | ND | 123 | 55-155 | | | |
| Dibromomethane | 22.0 | 2.0 | ug/l | 25.0 | ND | 88.0 | 60-155 | | | |
| 1,2-Dichlorobenzene | 26.9 | 2.0 | ug/l | 25.0 | ND | 108 | 65-140 | | | |
| 1,3-Dichlorobenzene | 26.3 | 2.0 | ug/l | 25.0 | ND | 105 | 65-145 | | | |
| 1,4-Dichlorobenzene | 26.3 | 2.0 | ug/l | 25.0 | ND | 105 | 65-140 | | | |
| Dichlorodifluoromethane | 30.4 | 5.0 | ug/l | 25.0 | ND | 122 | 30-190 | | | C |
| 1,1-Dichloroethane | 20.5 | 2.0 | ug/l | 25.0 | ND | 82.0 | 70-130 | | | |
| 1,2-Dichloroethane | 18.0 | 2.0 | ug/l | 25.0 | ND | 72.0 | 70-130 | | | |
| 1,1-Dichloroethene | 21.8 | 5.0 | ug/l | 25.0 | ND | 87.2 | 65-135 | | | |
| cis-1,2-Dichloroethene | 24.6 | 2.0 | ug/l | 25.0 | ND | 98.4 | 70-130 | | | |

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Report Number: PJL0071

Sampled: 12/06/00
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METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L1507 Extracted: 12/15/00** | | | | | | | | | | |
| **Matrix Spike Analyzed: 12/15/00 (P0L1507-MS1)** | | | | | **Source: PJL0071-03** | | | | | |
| trans-1,2-Dichloroethene | 23.3 | 2.0 | ug/l | 25.0 | ND | 93.2 | 55-175 | | | |
| 1,2-Dichloropropane | 24.3 | 2.0 | ug/l | 25.0 | ND | 97.2 | 70-130 | | | |
| 1,3-Dichloropropane | 29.3 | 2.0 | ug/l | 25.0 | ND | 117 | 60-150 | | | |
| 2,2-Dichloropropane | 17.3 | 2.0 | ug/l | 25.0 | ND | 69.2 | 15-200 | | | |
| 1,1-Dichloropropene | 21.3 | 2.0 | ug/l | 25.0 | ND | 85.2 | 65-150 | | | |
| cis-1,3-Dichloropropene | 22.2 | 2.0 | ug/l | 25.0 | ND | 88.8 | 65-150 | | | |
| trans-1,3-Dichloropropene | 25.2 | 2.0 | ug/l | 25.0 | ND | 101 | 60-150 | | | |
| Ethylbenzene | 32.3 | 2.0 | ug/l | 25.0 | ND | 129 | 60-150 | | | |
| Hexachlorobutadiene | 18.4 | 5.0 | ug/l | 25.0 | ND | 73.6 | 55-150 | | | |
| 2-Hexanone | 32.8 | 10 | ug/l | 25.0 | ND | 131 | 35-165 | | | |
| Iodomethane | 18.7 | 2.0 | ug/l | 25.0 | ND | 74.8 | 65-160 | | | |
| Isopropylbenzene | 30.1 | 2.0 | ug/l | 25.0 | ND | 120 | 65-145 | | | |
| p-Isopropyltoluene | 23.6 | 2.0 | ug/l | 25.0 | ND | 94.4 | 60-145 | | | |
| Methylene chloride | 23.4 | 5.0 | ug/l | 25.0 | ND | 93.6 | 65-160 | | | |
| 4-Methyl-2-pentanone (MIBK) | 26.8 | 10 | ug/l | 25.0 | ND | 107 | 40-165 | | | |
| Methyl-tert-butyl Ether (MTBE) | 18.5 | 5.0 | ug/l | 25.0 | ND | 74.0 | 60-160 | | | |
| Naphthalene | 28.1 | 5.0 | ug/l | 25.0 | ND | 112 | 50-150 | | | |
| n-Propylbenzene | 23.8 | 2.0 | ug/l | 25.0 | ND | 95.2 | 70-145 | | | |
| Styrene | 25.8 | 2.0 | ug/l | 25.0 | ND | 103 | 65-150 | | | |
| 1,1,1,2-Tetrachloroethane | 28.7 | 5.0 | ug/l | 25.0 | ND | 115 | 60-155 | | | |
| 1,1,2,2-Tetrachloroethane | 30.6 | 2.0 | ug/l | 25.0 | ND | 122 | 65-150 | | | |
| Tetrachloroethene | 32.5 | 2.0 | ug/l | 25.0 | ND | 130 | 70-130 | | | |
| Toluene | 30.5 | 2.0 | ug/l | 25.0 | ND | 122 | 70-125 | | | |
| 1,2,3-Trichlorobenzene | 25.2 | 5.0 | ug/l | 25.0 | ND | 101 | 55-150 | | | |
| 1,2,4-Trichlorobenzene | 25.1 | 5.0 | ug/l | 25.0 | ND | 100 | 60-145 | | | |
| 1,1,1-Trichloroethane | 18.8 | 2.0 | ug/l | 25.0 | ND | 75.2 | 70-130 | | | |
| 1,1,2-Trichloroethane | 31.6 | 2.0 | ug/l | 25.0 | ND | 126 | 70-130 | | | |
| Trichloroethene | 25.8 | 2.0 | ug/l | 25.0 | ND | 103 | 75-120 | | | |
| Trichlorofluoromethane | 19.2 | 5.0 | ug/l | 25.0 | ND | 76.8 | 10-200 | | | |
| 1,2,3-Trichloropropane | 25.9 | 10 | ug/l | 25.0 | ND | 104 | 55-150 | | | |
| 1,2,4-Trimethylbenzene | 23.5 | 2.0 | ug/l | 25.0 | ND | 94.0 | 65-150 | | | |

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METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L1507 Extracted: 12/15/00** | | | | | | | | | | |
| **Matrix Spike Analyzed: 12/15/00 (P0L1507-MS1)** | | | | | **Source: PJL0071-03** | | | | | |
| **1,3,5-Trimethylbenzene** | **23.6** | 2.0 | ug/l | 25.0 | ND | 94.4 | 65-150 | | | |
| **Vinyl acetate** | **26.2** | 5.0 | ug/l | 25.0 | ND | 105 | 50-160 | | | |
| **Vinyl chloride** | **25.9** | 5.0 | ug/l | 25.0 | ND | 104 | 25-200 | | | |
| **Xylenes, Total** | **98.8** | 10 | ug/l | 75.0 | ND | 132 | 65-145 | | | |
| *Surrogate: Dibromofluoromethane* | *21.9* | | *ug/l* | *25.0* | | *87.6* | *70-160* | | | |
| *Surrogate: Toluene-d8* | *30.0* | | *ug/l* | *25.0* | | *120* | *75-140* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.3* | | *ug/l* | *25.0* | | *105* | *75-135* | | | |
| **Matrix Spike Dup Analyzed: 12/15/00 (P0L1507-MSD1)** | | | | | **Source: PJL0071-03** | | | | | |
| Acetone | ND | 20 | ug/l | 25.0 | ND | 72.4 | 35-150 | 13.4 | 20 | |
| **Benzene** | **25.1** | 2.0 | ug/l | 25.0 | ND | 100 | 75-120 | 1.20 | 20 | |
| **Bromobenzene** | **25.9** | 5.0 | ug/l | 25.0 | ND | 104 | 65-150 | 1.15 | 20 | |
| **Bromochloromethane** | **22.2** | 5.0 | ug/l | 25.0 | ND | 88.8 | 60-155 | 5.69 | 20 | |
| **Bromodichloromethane** | **20.4** | 2.0 | ug/l | 25.0 | ND | 81.6 | 60-155 | 2.90 | 20 | |
| **Bromoform** | **33.9** | 5.0 | ug/l | 25.0 | ND | 136 | 25-160 | 1.49 | 20 | |
| **Bromomethane** | **18.4** | 5.0 | ug/l | 25.0 | ND | 73.6 | 55-170 | 12.1 | 20 | |
| **2-Butanone (MEK)** | **26.8** | 10 | ug/l | 25.0 | ND | 107 | 35-165 | 2.65 | 20 | |
| **n-Butylbenzene** | **23.9** | 5.0 | ug/l | 25.0 | ND | 95.6 | 65-140 | 2.54 | 20 | |
| **sec-Butylbenzene** | **24.6** | 5.0 | ug/l | 25.0 | ND | 98.4 | 60-145 | 0.810 | 20 | |
| **tert-Butylbenzene** | **25.8** | 5.0 | ug/l | 25.0 | ND | 103 | 65-145 | 1.54 | 20 | |
| **Carbon Disulfide** | **38.2** | 5.0 | ug/l | 25.0 | ND | 153 | 65-155 | 1.30 | 20 | C |
| **Carbon tetrachloride** | **17.0** | 5.0 | ug/l | 25.0 | ND | 68.0 | 65-150 | 4.03 | 20 | |
| **Chlorobenzene** | **33.1** | 2.0 | ug/l | 25.0 | ND | 132 | 75-130 | 6.87 | 20 | M |
| **Chloroethane** | **23.0** | 5.0 | ug/l | 25.0 | ND | 92.0 | 65-165 | 0.866 | 20 | |
| **Chloroform** | **20.6** | 2.0 | ug/l | 25.0 | ND | 82.4 | 70-130 | 2.40 | 20 | |
| **Chloromethane** | **27.1** | 5.0 | ug/l | 25.0 | ND | 108 | 60-165 | 9.67 | 20 | |
| **2-Chlorotoluene** | **25.8** | 5.0 | ug/l | 25.0 | ND | 103 | 65-145 | 7.46 | 20 | |
| **4-Chlorotoluene** | **25.8** | 5.0 | ug/l | 25.0 | ND | 103 | 70-145 | 23.9 | 20 | R2 |
| **Dibromochloromethane** | **28.9** | 2.0 | ug/l | 25.0 | ND | 116 | 55-155 | 3.16 | 20 | |
| **1,2-Dibromo-3-chloropropane** | **28.7** | 5.0 | ug/l | 25.0 | ND | 115 | 40-150 | 8.03 | 20 | |
| **1,2-Dibromoethane (EDB)** | **32.0** | 2.0 | ug/l | 25.0 | ND | 128 | 55-155 | 4.15 | 20 | |

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Law Engineering
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Client Project ID: South Mesa WQARF
70211-0-0150-02-2.2
Report Number: PJL0071

Sampled: 12/06/00
Received: 12/06/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L1507 Extracted: 12/15/00** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 12/15/00 (P0L1507-MSD1)** | | | | | **Source: PJL0071-03** | | | | | |
| **Dibromomethane** | **21.5** | 2.0 | ug/l | 25.0 | ND | 86.0 | 60-155 | 2.30 | 20 | |
| **1,2-Dichlorobenzene** | **26.1** | 2.0 | ug/l | 25.0 | ND | 104 | 65-140 | 3.02 | 20 | |
| **1,3-Dichlorobenzene** | **25.6** | 2.0 | ug/l | 25.0 | ND | 102 | 65-145 | 2.70 | 20 | |
| **1,4-Dichlorobenzene** | **25.4** | 2.0 | ug/l | 25.0 | ND | 102 | 65-140 | 3.48 | 20 | |
| **Dichlorodifluoromethane** | **30.0** | 5.0 | ug/l | 25.0 | ND | 120 | 30-190 | 1.32 | 20 | C |
| **1,1-Dichloroethane** | **19.8** | 2.0 | ug/l | 25.0 | ND | 79.2 | 70-130 | 3.47 | 20 | |
| **1,2-Dichloroethane** | **18.1** | 2.0 | ug/l | 25.0 | ND | 72.4 | 70-130 | 0.554 | 20 | |
| **1,1-Dichloroethene** | **22.4** | 5.0 | ug/l | 25.0 | ND | 89.6 | 65-135 | 2.71 | 20 | |
| **cis-1,2-Dichloroethene** | **24.9** | 2.0 | ug/l | 25.0 | ND | 99.6 | 70-130 | 1.21 | 20 | |
| **trans-1,2-Dichloroethene** | **22.7** | 2.0 | ug/l | 25.0 | ND | 90.8 | 55-175 | 2.61 | 20 | |
| **1,2-Dichloropropane** | **23.8** | 2.0 | ug/l | 25.0 | ND | 95.2 | 70-130 | 2.08 | 20 | |
| **1,3-Dichloropropane** | **31.6** | 2.0 | ug/l | 25.0 | ND | 126 | 60-150 | 7.55 | 20 | |
| **2,2-Dichloropropane** | **16.8** | 2.0 | ug/l | 25.0 | ND | 67.2 | 15-200 | 2.93 | 20 | |
| **1,1-Dichloropropene** | **21.0** | 2.0 | ug/l | 25.0 | ND | 84.0 | 65-150 | 1.42 | 20 | |
| **cis-1,3-Dichloropropene** | **21.9** | 2.0 | ug/l | 25.0 | ND | 87.6 | 65-150 | 1.36 | 20 | |
| **trans-1,3-Dichloropropene** | **25.8** | 2.0 | ug/l | 25.0 | ND | 103 | 60-150 | 2.35 | 20 | |
| **Ethylbenzene** | **34.0** | 2.0 | ug/l | 25.0 | ND | 136 | 60-150 | 5.13 | 20 | |
| **Hexachlorobutadiene** | **26.0** | 5.0 | ug/l | 25.0 | ND | 104 | 55-150 | 34.2 | 20 | R2 |
| **2-Hexanone** | **32.6** | 10 | ug/l | 25.0 | ND | 130 | 35-165 | 0.612 | 20 | |
| **Iodomethane** | **15.8** | 2.0 | ug/l | 25.0 | ND | 63.2 | 65-160 | 16.8 | 20 | M |
| **Isopropylbenzene** | **32.1** | 2.0 | ug/l | 25.0 | ND | 128 | 65-145 | 6.43 | 20 | |
| **p-Isopropyltoluene** | **23.1** | 2.0 | ug/l | 25.0 | ND | 92.4 | 60-145 | 2.14 | 20 | |
| **Methylene chloride** | **23.8** | 5.0 | ug/l | 25.0 | ND | 95.2 | 65-160 | 1.69 | 20 | |
| **4-Methyl-2-pentanone (MIBK)** | **26.5** | 10 | ug/l | 25.0 | ND | 106 | 40-165 | 1.13 | 20 | |
| **Methyl-tert-butyl Ether (MTBE)** | **17.7** | 5.0 | ug/l | 25.0 | ND | 70.8 | 60-160 | 4.42 | 20 | |
| **Naphthalene** | **28.9** | 5.0 | ug/l | 25.0 | ND | 116 | 50-150 | 2.81 | 20 | |
| **n-Propylbenzene** | **23.1** | 2.0 | ug/l | 25.0 | ND | 92.4 | 70-145 | 2.99 | 20 | |
| **Styrene** | **6.39** | 2.0 | ug/l | 25.0 | ND | 25.6 | 65-150 | 121 | 20 | M,R2 |
| **1,1,1,2-Tetrachloroethane** | **29.9** | 5.0 | ug/l | 25.0 | ND | 120 | 60-155 | 4.10 | 20 | |
| **1,1,2,2-Tetrachloroethane** | **28.3** | 2.0 | ug/l | 25.0 | ND | 113 | 65-150 | 7.81 | 20 | |
| **Tetrachloroethene** | **33.8** | 2.0 | ug/l | 25.0 | ND | 135 | 70-130 | 3.92 | 20 | M |

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Law Engineering
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Client Project ID: South Mesa WQARF 70211-0-0150-02-2.2
Report Number: PJL0071

Sampled: 12/06/00
Received: 12/06/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L1507 Extracted: 12/15/00** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 12/15/00 (P0L1507-MSD1)** | | | | | **Source: PJL0071-03** | | | | | |
| **Toluene** | **31.4** | 2.0 | ug/l | 25.0 | ND | 126 | 70-125 | 2.91 | 20 | M |
| **1,2,3-Trichlorobenzene** | **28.7** | 5.0 | ug/l | 25.0 | ND | 115 | 55-150 | 13.0 | 20 | |
| **1,2,4-Trichlorobenzene** | **26.9** | 5.0 | ug/l | 25.0 | ND | 108 | 60-145 | 6.92 | 20 | |
| **1,1,1-Trichloroethane** | **18.2** | 2.0 | ug/l | 25.0 | ND | 72.8 | 70-130 | 3.24 | 20 | |
| **1,1,2-Trichloroethane** | **33.0** | 2.0 | ug/l | 25.0 | ND | 132 | 70-130 | 4.33 | 20 | M |
| **Trichloroethene** | **25.6** | 2.0 | ug/l | 25.0 | ND | 102 | 75-120 | 0.778 | 20 | |
| **Trichlorofluoromethane** | **18.6** | 5.0 | ug/l | 25.0 | ND | 74.4 | 10-200 | 3.17 | 20 | |
| **1,2,3-Trichloropropane** | **24.9** | 10 | ug/l | 25.0 | ND | 99.6 | 55-150 | 3.94 | 20 | |
| **1,2,4-Trimethylbenzene** | **21.3** | 2.0 | ug/l | 25.0 | ND | 85.2 | 65-150 | 9.82 | 20 | |
| **1,3,5-Trimethylbenzene** | **22.2** | 2.0 | ug/l | 25.0 | ND | 88.8 | 65-150 | 6.11 | 20 | |
| **Vinyl acetate** | **12.1** | 5.0 | ug/l | 25.0 | ND | 48.4 | 50-160 | 73.6 | 20 | M |
| **Vinyl chloride** | **26.0** | 5.0 | ug/l | 25.0 | ND | 104 | 25-200 | 0.385 | 20 | |
| **Xylenes, Total** | **101** | 10 | ug/l | 75.0 | ND | 135 | 65-145 | 2.20 | 20 | |
| *Surrogate: Dibromofluoromethane* | *21.6* | | *ug/l* | *25.0* | | *86.4* | *70-160* | | | |
| *Surrogate: Toluene-d8* | *32.0* | | *ug/l* | *25.0* | | *128* | *75-140* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *24.0* | | *ug/l* | *25.0* | | *96.0* | *75-135* | | | |

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70211-0-0150-02-2.2
Report Number: PJL0071

Sampled: 12/06/00
Received: 12/06/00

METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L0704 Extracted: 12/07/00** | | | | | | | | | | |
| **Blank Analyzed: 12/07/00 (P0L0704-BLK1)** | | | | | | | | | | |
| Chromium VI | ND | 0.025 | mg/l | | | | | | | |
| **LCS Analyzed: 12/07/00 (P0L0704-BS1)** | | | | | | | | | | |
| **Chromium VI** | **0.0966** | 0.050 | mg/l | 0.100 | | 96.6 | 90-115 | | | |
| **LCS Dup Analyzed: 12/07/00 (P0L0704-BSD1)** | | | | | | | | | | |
| **Chromium VI** | **0.0916** | 0.050 | mg/l | 0.100 | | 91.6 | 90-115 | 5.31 | 20 | |
| **Matrix Spike Analyzed: 12/07/00 (P0L0704-MS1)** | | | | | **Source: PJL0071-06RE1** | | | | | |
| **Chromium VI** | **0.0495** | 0.025 | mg/l | 0.0500 | ND | 99.0 | 90-120 | | | |
| **Matrix Spike Dup Analyzed: 12/07/00 (P0L0704-MSD1)** | | | | | **Source: PJL0071-06RE1** | | | | | |
| **Chromium VI** | **0.0532** | 0.025 | mg/l | 0.0500 | ND | 106 | 90-120 | 7.21 | 20 | |
| **Batch: P0L0705 Extracted: 12/07/00** | | | | | | | | | | |
| **Blank Analyzed: 12/11/00 (P0L0705-BLK1)** | | | | | | | | | | |
| Antimony | ND | 0.0040 | mg/l | | | | | | | T |
| Arsenic | ND | 0.0030 | mg/l | | | | | | | T |
| Beryllium | ND | 0.00050 | mg/l | | | | | | | T |
| Cadmium | ND | 0.00050 | mg/l | | | | | | | T |
| Chromium | ND | 0.0040 | mg/l | | | | | | | T |
| Selenium | ND | 0.0040 | mg/l | | | | | | | T |
| **LCS Analyzed: 12/11/00 (P0L0705-BS1)** | | | | | | | | | | |
| **Antimony** | **0.0204** | 0.0040 | mg/l | 0.0200 | | 102 | 85-115 | | | T |
| **Arsenic** | **0.0199** | 0.0030 | mg/l | 0.0200 | | 99.5 | 85-115 | | | T |
| **Beryllium** | **0.000992** | 0.00050 | mg/l | 0.00100 | | 99.2 | 85-115 | | | T |
| **Cadmium** | **0.00105** | 0.00050 | mg/l | 0.00100 | | 105 | 85-115 | | | T |
| **Chromium** | **0.0211** | 0.0040 | mg/l | 0.0200 | | 106 | 85-115 | | | T |
| **Selenium** | **0.0200** | 0.0040 | mg/l | 0.0200 | | 100 | 85-115 | | | T |

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70211-0-0150-02-2.2
Report Number: PJL0071

Sampled: 12/06/00
Received: 12/06/00

METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L0705 Extracted: 12/07/00** | | | | | | | | | | |
| **LCS Dup Analyzed: 12/11/00 (P0L0705-BSD1)** | | | | | | | | | | |
| **Antimony** | **0.0218** | 0.0040 | mg/l | 0.0200 | | 109 | 85-115 | 6.64 | 20 | T |
| **Arsenic** | **0.0208** | 0.0030 | mg/l | 0.0200 | | 104 | 85-115 | 4.42 | 20 | T |
| **Beryllium** | **0.00108** | 0.00050 | mg/l | 0.00100 | | 108 | 85-115 | 8.49 | 20 | T |
| **Cadmium** | **0.00101** | 0.00050 | mg/l | 0.00100 | | 101 | 85-115 | 3.88 | 20 | T |
| **Chromium** | **0.0215** | 0.0040 | mg/l | 0.0200 | | 108 | 85-115 | 1.88 | 20 | T |
| **Selenium** | **0.0208** | 0.0040 | mg/l | 0.0200 | | 104 | 85-115 | 3.92 | 20 | |
| **Matrix Spike Analyzed: 12/11/00 (P0L0705-MS1)** | | | | | **Source: PJL0065-01** | | | | | |
| **Antimony** | **0.0197** | 0.0040 | mg/l | 0.0200 | ND | 98.5 | 70-130 | | | T |
| **Arsenic** | **0.0199** | 0.0030 | mg/l | 0.0200 | ND | 91.5 | 70-130 | | | T |
| **Beryllium** | **0.00164** | 0.00050 | mg/l | 0.00100 | ND | 164 | 70-130 | | | M,T |
| **Cadmium** | **0.000935** | 0.00050 | mg/l | 0.00100 | ND | 93.5 | 70-130 | | | T |
| **Chromium** | **0.0236** | 0.0040 | mg/l | 0.0200 | ND | 110 | 70-130 | | | T |
| **Selenium** | **0.0531** | 0.0080 | mg/l | 0.0200 | 0.030 | 116 | 70-130 | | | T |
| **Matrix Spike Dup Analyzed: 12/11/00 (P0L0705-MSD1)** | | | | | **Source: PJL0065-01** | | | | | |
| **Antimony** | **0.0196** | 0.0040 | mg/l | 0.0200 | ND | 98.0 | 70-130 | 0.509 | 20 | T |
| **Arsenic** | **0.0190** | 0.0030 | mg/l | 0.0200 | ND | 87.0 | 70-130 | 4.63 | 20 | T |
| **Beryllium** | **0.00158** | 0.00050 | mg/l | 0.00100 | ND | 158 | 70-130 | 3.73 | 20 | M,T |
| **Cadmium** | **0.000869** | 0.00050 | mg/l | 0.00100 | ND | 86.9 | 70-130 | 7.32 | 20 | T |
| **Chromium** | **0.0235** | 0.0040 | mg/l | 0.0200 | ND | 109 | 70-130 | 0.425 | 20 | T |
| **Selenium** | **0.0533** | 0.0080 | mg/l | 0.0200 | 0.030 | 117 | 70-130 | 0.376 | 20 | T |
| **Batch: P0L0712 Extracted: 12/07/00** | | | | | | | | | | |
| **Blank Analyzed: 12/11/00 (P0L0712-BLK1)** | | | | | | | | | | |
| Aluminum | ND | 0.50 | mg/l | | | | | | | |
| Barium | ND | 0.010 | mg/l | | | | | | | |
| Calcium | ND | 2.0 | mg/l | | | | | | | |
| Cobalt | ND | 0.050 | mg/l | | | | | | | |
| Copper | ND | 0.020 | mg/l | | | | | | | |
| Iron | ND | 0.10 | mg/l | | | | | | | |
| Lead | ND | 0.050 | mg/l | | | | | | | |
| Magnesium | ND | 0.50 | mg/l | | | | | | | |
| Manganese | ND | 0.020 | mg/l | | | | | | | |

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Report Number: PJL0071

Sampled: 12/06/00
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METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L0712 Extracted: 12/07/00** | | | | | | | | | | |
| **Blank Analyzed: 12/08/00 (P0L0712-BLK1)** | | | | | | | | | | |
| Nickel | ND | 0.050 | mg/l | | | | | | | |
| Silver | ND | 0.0050 | mg/l | | | | | | | |
| Sodium | ND | 5.0 | mg/l | | | | | | | |
| Strontium | ND | 0.10 | mg/l | | | | | | | |
| Vanadium | ND | 0.050 | mg/l | | | | | | | |
| Zinc | ND | 0.050 | mg/l | | | | | | | |
| **LCS Analyzed: 12/11/00 (P0L0712-BS1)** | | | | | | | | | | |
| **Aluminum** | **1.09** | 0.50 | mg/l | 1.00 | | 109 | 85-115 | | | |
| **Barium** | **0.998** | 0.010 | mg/l | 1.00 | | 99.8 | 85-115 | | | |
| **Calcium** | **9.85** | 2.0 | mg/l | 10.0 | | 98.5 | 85-115 | | | |
| **Cobalt** | **0.980** | 0.050 | mg/l | 1.00 | | 98.0 | 85-115 | | | |
| **Copper** | **0.969** | 0.020 | mg/l | 1.00 | | 96.9 | 85-115 | | | |
| **Iron** | **10.1** | 0.10 | mg/l | 10.0 | | 101 | 85-115 | | | |
| **Lead** | **0.999** | 0.050 | mg/l | 1.00 | | 99.9 | 85-115 | | | |
| **Magnesium** | **9.74** | 0.50 | mg/l | 10.0 | | 97.4 | 85-115 | | | |
| **Manganese** | **0.988** | 0.020 | mg/l | 1.00 | | 98.8 | 85-115 | | | |
| **Nickel** | **0.971** | 0.050 | mg/l | 1.00 | | 97.1 | 85-115 | | | |
| **Silver** | **0.0504** | 0.0050 | mg/l | 0.0500 | | 101 | 85-115 | | | |
| **Sodium** | **47.8** | 5.0 | mg/l | 50.0 | | 95.6 | 85-115 | | | |
| Strontium | ND | 0.10 | mg/l | 0.100 | | 98.0 | 85-115 | | | |
| **Vanadium** | **1.01** | 0.050 | mg/l | 1.00 | | 101 | 85-115 | | | |
| **Zinc** | **0.993** | 0.050 | mg/l | 1.00 | | 99.3 | 85-115 | | | |
| **LCS Dup Analyzed: 12/11/00 (P0L0712-BSD1)** | | | | | | | | | | |
| **Aluminum** | **1.06** | 0.50 | mg/l | 1.00 | | 106 | 85-115 | 2.79 | 20 | |
| **Barium** | **0.990** | 0.010 | mg/l | 1.00 | | 99.0 | 85-115 | 0.805 | 20 | |
| **Calcium** | **9.78** | 2.0 | mg/l | 10.0 | | 97.8 | 85-115 | 0.713 | 20 | |
| **Cobalt** | **0.971** | 0.050 | mg/l | 1.00 | | 97.1 | 85-115 | 0.923 | 20 | |
| **Copper** | **0.962** | 0.020 | mg/l | 1.00 | | 96.2 | 85-115 | 0.725 | 20 | |
| **Iron** | **10.1** | 0.10 | mg/l | 10.0 | | 101 | 85-115 | 0 | 20 | |
| **Lead** | **0.990** | 0.050 | mg/l | 1.00 | | 99.0 | 85-115 | 0.905 | 20 | |
| **Magnesium** | **9.67** | 0.50 | mg/l | 10.0 | | 96.7 | 85-115 | 0.721 | 20 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: South Mesa WQARF
70211-0-0150-02-2.2
Report Number: PJL0071

Sampled: 12/06/00
Received: 12/06/00

METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L0712 Extracted: 12/07/00** | | | | | | | | | | |
| **LCS Dup Analyzed: 12/08/00 (P0L0712-BSD1)** | | | | | | | | | | |
| **Manganese** | **0.982** | 0.020 | mg/l | 1.00 | | 98.2 | 85-115 | 0.609 | 20 | |
| **Nickel** | **0.966** | 0.050 | mg/l | 1.00 | | 96.6 | 85-115 | 0.516 | 20 | |
| **Silver** | **0.0501** | 0.0050 | mg/l | 0.0500 | | 100 | 85-115 | 0.597 | 20 | |
| **Sodium** | **47.2** | 5.0 | mg/l | 50.0 | | 94.4 | 85-115 | 1.26 | 20 | |
| Strontium | ND | 0.10 | mg/l | 0.100 | | 97.0 | 85-115 | 1.03 | 20 | |
| **Vanadium** | **1.00** | 0.050 | mg/l | 1.00 | | 100 | 85-115 | 0.995 | 20 | |
| **Zinc** | **0.990** | 0.050 | mg/l | 1.00 | | 99.0 | 85-115 | 0.303 | 20 | |
| **Matrix Spike Analyzed: 12/11/00 (P0L0712-MS1)** | | | | | **Source: PJL0048-01** | | | | | |
| **Aluminum** | **1.28** | 0.50 | mg/l | 1.00 | ND | 113 | 70-130 | | | |
| **Barium** | **1.06** | 0.010 | mg/l | 1.00 | 0.071 | 98.9 | 70-130 | | | |
| **Calcium** | **135** | 2.0 | mg/l | 10.0 | 120 | 150 | 70-130 | | | M |
| **Cobalt** | **0.971** | 0.050 | mg/l | 1.00 | ND | 97.1 | 70-130 | | | |
| **Copper** | **1.01** | 0.020 | mg/l | 1.00 | ND | 101 | 70-130 | | | |
| **Iron** | **10.5** | 0.10 | mg/l | 10.0 | 0.39 | 101 | 70-130 | | | |
| **Lead** | **0.987** | 0.050 | mg/l | 1.00 | ND | 98.7 | 70-130 | | | |
| **Magnesium** | **54.3** | 0.50 | mg/l | 10.0 | 43 | 113 | 70-130 | | | |
| **Manganese** | **0.995** | 0.020 | mg/l | 1.00 | ND | 99.1 | 70-130 | | | |
| **Nickel** | **0.952** | 0.050 | mg/l | 1.00 | ND | 93.7 | 70-130 | | | |
| **Silver** | **0.0510** | 0.0050 | mg/l | 0.0500 | ND | 102 | 70-130 | | | |
| **Sodium** | **415** | 5.0 | mg/l | 50.0 | 340 | 150 | 85-115 | | | M-HA |
| **Strontium** | **1.29** | 0.50 | mg/l | 0.100 | 1.2 | 90.0 | 70-130 | | | |
| **Vanadium** | **1.04** | 0.050 | mg/l | 1.00 | ND | 103 | 70-130 | | | |
| **Zinc** | **0.998** | 0.050 | mg/l | 1.00 | ND | 99.8 | 70-130 | | | |
| **Matrix Spike Dup Analyzed: 12/11/00 (P0L0712-MSD1)** | | | | | **Source: PJL0048-01** | | | | | |
| **Aluminum** | **1.29** | 0.50 | mg/l | 1.00 | ND | 114 | 70-130 | 0.778 | 20 | |
| **Barium** | **1.04** | 0.010 | mg/l | 1.00 | 0.071 | 96.9 | 70-130 | 1.90 | 20 | |
| **Calcium** | **138** | 2.0 | mg/l | 10.0 | 120 | 180 | 70-130 | 2.20 | 20 | M |
| **Cobalt** | **0.980** | 0.050 | mg/l | 1.00 | ND | 98.0 | 70-130 | 0.923 | 20 | |
| **Copper** | **1.03** | 0.020 | mg/l | 1.00 | ND | 103 | 70-130 | 1.96 | 20 | |
| **Iron** | **10.7** | 0.10 | mg/l | 10.0 | 0.39 | 103 | 70-130 | 1.89 | 20 | |
| **Lead** | **1.00** | 0.050 | mg/l | 1.00 | ND | 100 | 70-130 | 1.31 | 20 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: South Mesa WQARF 70211-0-0150-02-2.2
Report Number: PJL0071

Sampled: 12/06/00
Received: 12/06/00

METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L0712 Extracted: 12/07/00** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 12/08/00 (P0L0712-MSD1)** | | | | | Source: PJL0048-01 | | | | | |
| **Magnesium** | **55.4** | 0.50 | mg/l | 10.0 | 43 | 124 | 70-130 | 2.01 | 20 | |
| **Manganese** | **1.01** | 0.020 | mg/l | 1.00 | ND | 101 | 70-130 | 1.50 | 20 | |
| **Nickel** | **0.944** | 0.050 | mg/l | 1.00 | ND | 92.9 | 70-130 | 0.844 | 20 | |
| **Silver** | **0.0524** | 0.0050 | mg/l | 0.0500 | ND | 105 | 70-130 | 2.71 | 20 | |
| **Sodium** | **428** | 5.0 | mg/l | 50.0 | 340 | 176 | 85-115 | 3.08 | 20 | M-HA |
| **Strontium** | **1.29** | 0.50 | mg/l | 0.100 | 1.2 | 90.0 | 70-130 | 0 | 20 | |
| **Vanadium** | **1.05** | 0.050 | mg/l | 1.00 | ND | 104 | 70-130 | 0.957 | 20 | |
| **Zinc** | **1.02** | 0.050 | mg/l | 1.00 | ND | 102 | 70-130 | 2.18 | 20 | |
| **Batch: P0L0713 Extracted: 12/07/00** | | | | | | | | | | |
| **Blank Analyzed: 12/11/00 (P0L0713-BLK1)** | | | | | | | | | | |
| Antimony | ND | 0.0040 | mg/l | | | | | | | |
| Arsenic | ND | 0.0030 | mg/l | | | | | | | |
| Beryllium | ND | 0.00050 | mg/l | | | | | | | |
| Cadmium | ND | 0.00050 | mg/l | | | | | | | |
| Chromium | ND | 0.0040 | mg/l | | | | | | | |
| Selenium | ND | 0.0040 | mg/l | | | | | | | |
| **LCS Analyzed: 12/11/00 (P0L0713-BS1)** | | | | | | | | | | |
| **Antimony** | **0.0368** | 0.0080 | mg/l | 0.0400 | | 92.0 | 85-115 | | | |
| **Arsenic** | **0.0401** | 0.0060 | mg/l | 0.0400 | | 100 | 85-115 | | | |
| **Beryllium** | **0.00206** | 0.0010 | mg/l | 0.00200 | | 103 | 85-115 | | | |
| **Cadmium** | **0.00203** | 0.0010 | mg/l | 0.00200 | | 101 | 85-115 | | | |
| **Chromium** | **0.0393** | 0.0080 | mg/l | 0.0400 | | 98.2 | 85-115 | | | |
| **Selenium** | **0.0433** | 0.0080 | mg/l | 0.0400 | | 108 | 85-115 | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: South Mesa WQARF
70211-0-0150-02-2.2
Report Number: PJL0071

Sampled: 12/06/00
Received: 12/06/00

## METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L0713 Extracted: 12/07/00** | | | | | | | | | | |
| **LCS Dup Analyzed: 12/11/00 (P0L0713-BSD1)** | | | | | | | | | | |
| **Antimony** | **0.0344** | 0.0080 | mg/l | 0.0400 | | 86.0 | 85-115 | 6.74 | 20 | |
| **Arsenic** | **0.0426** | 0.0060 | mg/l | 0.0400 | | 106 | 85-115 | 6.05 | 20 | |
| **Beryllium** | **0.00213** | 0.0010 | mg/l | 0.00200 | | 106 | 85-115 | 3.34 | 20 | |
| **Cadmium** | **0.00208** | 0.0010 | mg/l | 0.00200 | | 104 | 85-115 | 2.43 | 20 | |
| **Chromium** | **0.0431** | 0.0080 | mg/l | 0.0400 | | 108 | 85-115 | 9.22 | 20 | |
| **Selenium** | **0.0442** | 0.0080 | mg/l | 0.0400 | | 111 | 85-115 | 2.06 | 20 | |
| **Matrix Spike Analyzed: 12/11/00 (P0L0713-MS1)** | | | | | **Source: PJL0063-01** | | | | | |
| **Antimony** | **0.0431** | 0.0080 | mg/l | 0.0400 | ND | 108 | 70-130 | | | |
| **Arsenic** | **0.0671** | 0.0060 | mg/l | 0.0400 | 0.12 | -132 | 70-130 | | | M |
| **Beryllium** | **0.00213** | 0.0010 | mg/l | 0.00200 | ND | 106 | 70-130 | | | |
| **Cadmium** | **0.00181** | 0.0010 | mg/l | 0.00200 | ND | 90.5 | 70-130 | | | |
| **Chromium** | **0.0599** | 0.0080 | mg/l | 0.0400 | 0.029 | 77.3 | 70-130 | | | |
| **Selenium** | **0.0272** | 0.0080 | mg/l | 0.0400 | ND | 54.3 | 70-130 | | | M |
| **Matrix Spike Dup Analyzed: 12/11/00 (P0L0713-MSD1)** | | | | | **Source: PJL0063-01** | | | | | |
| **Antimony** | **0.0424** | 0.0080 | mg/l | 0.0400 | ND | 106 | 70-130 | 1.64 | 20 | |
| **Arsenic** | **0.0554** | 0.0060 | mg/l | 0.0400 | 0.12 | -161 | 70-130 | 19.1 | 20 | M |
| **Beryllium** | **0.00206** | 0.0010 | mg/l | 0.00200 | ND | 103 | 70-130 | 3.34 | 20 | |
| **Cadmium** | **0.00177** | 0.0010 | mg/l | 0.00200 | ND | 88.5 | 70-130 | 2.23 | 20 | |
| **Chromium** | **0.0647** | 0.0080 | mg/l | 0.0400 | 0.029 | 89.3 | 70-130 | 7.70 | 20 | |
| **Selenium** | **0.0272** | 0.0080 | mg/l | 0.0400 | ND | 54.3 | 70-130 | 0 | 20 | M |
| **Batch: P0L0723 Extracted: 12/07/00** | | | | | | | | | | |
| **Blank Analyzed: 12/07/00 (P0L0723-BLK1)** | | | | | | | | | | |
| Chromium VI | ND | 0.025 | mg/l | | | | | | | |

Julie M. Slocum
Project Manager



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Attention: Jim Clarke

Client Project ID: South Mesa WQARF
70211-0-0150-02-2.2
Report Number: PJL0071

Sampled: 12/06/00
Received: 12/06/00

METHOD BLANK/QC DATA

## TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L0723 Extracted: 12/07/00** | | | | | | | | | | |
| **LCS Analyzed: 12/07/00 (P0L0723-BS1)** | | | | | | | | | | |
| **Chromium VI** | **0.104** | 0.050 | mg/l | 0.100 | | 104 | 90-115 | | | |
| **LCS Dup Analyzed: 12/07/00 (P0L0723-BSD1)** | | | | | | | | | | |
| **Chromium VI** | **0.104** | 0.050 | mg/l | 0.100 | | 104 | 90-115 | 0 | 20 | |
| **Matrix Spike Analyzed: 12/07/00 (P0L0723-MS1)** | | | | | **Source: PJL0090-02** | | | | | |
| **Chromium VI** | **0.0545** | 0.025 | mg/l | 0.0500 | ND | 104 | 90-120 | | | |
| **Matrix Spike Dup Analyzed: 12/07/00 (P0L0723-MSD1)** | | | | | **Source: PJL0090-02** | | | | | |
| **Chromium VI** | **0.0545** | 0.025 | mg/l | 0.0500 | ND | 104 | 90-120 | 0 | 20 | |
| **Batch: P0L1209 Extracted: 12/12/00** | | | | | | | | | | |
| **Blank Analyzed: 12/15/00 (P0L1209-BLK1)** | | | | | | | | | | |
| Lithium | ND | 1.0 | mg/l | | | | | | | |
| **LCS Analyzed: 12/15/00 (P0L1209-BS1)** | | | | | | | | | | |
| **Lithium** | **6.20** | 1.0 | mg/l | 5.00 | | 124 | 85-115 | | | L |
| **LCS Dup Analyzed: 12/15/00 (P0L1209-BSD1)** | | | | | | | | | | |
| **Lithium** | **5.90** | 1.0 | mg/l | 5.00 | | 118 | 85-115 | 4.96 | 20 | L |
| **Matrix Spike Analyzed: 12/15/00 (P0L1209-MS1)** | | | | | **Source: PJL0090-01** | | | | | |
| **Lithium** | **6.90** | 1.0 | mg/l | 5.00 | ND | 132 | 85-115 | | | M |
| **Matrix Spike Dup Analyzed: 12/15/00 (P0L1209-MSD1)** | | | | | **Source: PJL0090-01** | | | | | |
| **Lithium** | **7.00** | 1.0 | mg/l | 5.00 | ND | 134 | 85-115 | 1.44 | 20 | M |

Julie M. Slocum
Project Manager



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| | | | |
|---|---|---|---|
| Law Engineering<br>4634 S. 36th Place<br>Phoenix, AZ 85040<br>Attention: Jim Clarke | Client Project ID:<br><br>Report Number: | South Mesa WQARF<br>70211-0-0150-02-2.2<br>PJL0071 | Sampled: 12/06/00<br>Received: 12/06/00 |

METHOD BLANK/QC DATA

# DATA QUALIFIERS AND DEFINITIONS

| | |
|---|---|
| **C** | Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted. |
| **H** | Sample analysis performed past method-specified holding time. |
| **L** | Laboratory Control Sample recovery was above the method control limits. Analyte not detected, data not impacted. |
| **M** | The MS and/or MSD were outside of the acceptance limits due to sample matrix interference. See Blank Spike (LCS). |
| **M-HA** | Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information See LCS. |
| **R2** | The RPD exceeded the method control limit. See Corrective Action Report. |
| **S** | Analyzed by Method of Standard Addition. |
| **T** | Turbidity was <1 NTU. Metals digestion was not required. |
| **ND** | Analyte NOT DETECTED at or above the reporting limit |
| **NR** | Not reported. |
| **RPD** | Relative Percent Difference |

Julie M. Slocum
Project Manager



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# CORRECTIVE ACTION REPORT

| | | | |
|---|---|---|---|
| Department: | GC/MS | Method: | 8260B |
| Date: | 12/15/2000 | Matrix: | Water |
| Batch: | P0L1507 | | |
| Samples: | PJL0044-11, PJL0044-13 – PJL0044-15, PJL0048-01 – PJL0048-03 & PJL0071-01 – PJL0071-09 | | |

Identification and Definition of Problem:

The Relative Percent Differences (RPD) between the Laboratory Control Sample (LCS) and the Laboratory Control Sample Duplicate (LCSD) were outside of the 20% acceptance criteria for 1,2,3-Trichlorobenzene (24.4%), 1,2-Dibromo-3-chloropropane (23.9%), Bromomethane (20.9%), and Acetone (20.2%). The RPD was also outside of acceptance limits between the Matrix Spike (MS) and Matrix Spike Duplicate (MSD) for 4-Chlorotoluene (23.9%), Hexachlorobutadiene (34.2%), Vinyl acetate (73.6%) and Styrene (121%).

Determination of the Cause of the Problem:

The cause of the high RPDs could not be determined.

Corrective Action:

The LCS and LCSD recovered within acceptance limits for all target analytes. Those analytes that had unacceptable RPDs between the LCS and LCSD had acceptable RPDs between the MS and MSD. Also, those analytes that had unacceptable RPDs between the MS and MSD had acceptable RPDs between the LCS and LCSD. The data should not be significantly impacted.

Elizabeth C. Wueschner: Elizabeth C Wueschner Date: 12/21/2000
Quality Assurance Manager

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# CHAIN OF CUSTODY FORM



**Client Name/Address:**
LAW Engineering
4634 S 36th Place
Phoenix, AZ 85040

**Project/PO Number:**
S Mesa WARF
70211-0-0150 - 02-2.2

**Project Manager:**
Jim Clarke

**Phone Number:**
602-437-0250

**Sampler:**
Ron Bedmar

**Fax Number:**
602-437-3675

**Analysis Required**

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date | Sampling Time | Preservatives | 8260 | Metals (See attached sheet) | Hex Chrom | | | | | | | Special Instructions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-7D | $H_2O$ | 2 Voa 1 500mL | 2 1 | 12/6 | 14:45 | HCL Nitric | X | X | | | PJ#0071-01 | | | | | |
| MW-1D | $H_2O$ | 2 Voa 1 500mL | 2 1 | 12/6 | 8:00 | HCL Nitric | X | X | | | | | | 2 | | |
| MW-1S | $H_2O$ | 2 Voa 1 500mL | 2 1 | 12/6 | 8:45 | HCL Nitric | X | X | | | | | | 3 | | |
| MW-10D | $H_2O$ | 2 Voa 1 500mL | 2 1 | 12/6 | 15:45 | HCL Nitric | X | X | | | | | | 4 | | |
| MW-5D | $H_2O$ | 2 Voa 1 500mL | 2 1 | 12/6 | 13:35 | HCL Nitric | X | X | | | | | | 5 | | |
| MW-AM-85 | $H_2O$ | 2 Voa 1 500mL | 2 1 | 12/6 | 11:30 | HCL Nitric | X | X | | | | | | 6 | | |
| MW-95 | $H_2O$ | 2 VOA 1 500mL | 2 1 | 12/6 | 14:15 | HCL Nitric | X | X | | | | | | 7 | | |
| MW-LW | $H_2O$ | 2 VOA 1 500mL | 2 1 | 12/6 | 10:45 | HCL Nitric | X | X | | | | | | 8 | | |
| MW-AM-85 | $H_2O$ | 1 500mL | 1 | 12/6 | 11:30 | None | | | X | | | | (6) | | | |
| MW-95 | $H_2O$ | 500mL poly | 1 | 12/6 | 14:15 | None | | | X | | | | (7) | | | |
| MW-LW | $H_2O$ | 500mL poly | 1 | 12/6 | 10:45 | None | | | X | | | | (8) | | | |
| Trip Blank | $H_2O$ | 500mL poly | 1 | 12/6 | | | X | | | | | | | 9 | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

**Relinquished By:** Ron Bedmar **Date /Time:** 12/6/00 16:00
**Received by:** **Date /Time:**

**Relinquished By:** **Date /Time:**
**Received by:** **Date /Time:** 12/6/00

**Relinquished By:** **Date /Time:** 12/6/00
**Received in Lab by:** **Date /Time:** 12-6-00 1600

**Turnaround Time:** (Check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal X

**Sample Integrity:** (Check)
intact X on ice X

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

Del Mar Analytical

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| | | |
|---|---|---|
| Law Engineering<br>4634 S. 36th Place<br>Phoenix, AZ 85040<br>Attention: Jim Clarke | Client Project ID: S Mesa 70211-0-150-02-2.2<br>Report Number: PJL0048 | Sampled: 12/05/00<br>Received: 12/05/00<br>Issued: 12/20/00 |

# CASE NARRATIVE

| LABORATORY NUMBER | SAMPLE DESCRIPTION | SAMPLE MATRIX |
|---|---|---|
| PJL0048-01 | MW-5S | Water |
| PJL0048-02 | MW-6D | Water |
| PJL0048-03 | Trip Blank | Water |

SAMPLE RECEIPT: Samples were received intact, on ice, and with chain of custody documentation.

HOLDING TIMES: Holding times were met.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria.

OBSERVATIONS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

**DEL MAR ANALYTICAL , PHOENIX (AZ0426)**

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: S Mesa 70211-0-150-02-2.2
Report Number: PJL0048

Sampled: 12/05/00
Received: 12/05/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJL0048-01 (MW-5S - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P0L1507 | 20 | ND | 1 | 12/15/00 | 12/15/00 | |
| Benzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromobenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromochloromethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromodichloromethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromoform | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromomethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 2-Butanone (MEK) | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| n-Butylbenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| sec-Butylbenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| tert-Butylbenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Carbon Disulfide | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | C |
| Carbon tetrachloride | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Chlorobenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Chloroethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Chloroform | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Chloromethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 2-Chlorotoluene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 4-Chlorotoluene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Dibromochloromethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Dibromomethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dichlorobenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,3-Dichlorobenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,4-Dichlorobenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Dichlorodifluoromethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | C |
| 1,1-Dichloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dichloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1-Dichloroethene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| cis-1,2-Dichloroethene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| trans-1,2-Dichloroethene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dichloropropane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,3-Dichloropropane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 2,2-Dichloropropane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1-Dichloropropene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| cis-1,3-Dichloropropene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| trans-1,3-Dichloropropene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Ethylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Hexachlorobutadiene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 2-Hexanone | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| Iodomethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Isopropylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| p-Isopropyltoluene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: S Mesa 70211-0-150-02-2.2

Report Number: PJL0048

Sampled: 12/05/00
Received: 12/05/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJL0048-01 (MW-5S - Water)** | | | | | | | | |
| Methylene chloride | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Naphthalene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| n-Propylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Styrene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Tetrachloroethene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Toluene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1,1-Trichloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1,2-Trichloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Trichloroethene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Trichlorofluoromethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2,3-Trichloropropane | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Vinyl acetate | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Vinyl chloride | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Xylenes, Total | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| *Surrogate: Dibromofluoromethane (70-160%)* | | | | *82.4 %* | | | | |
| *Surrogate: Toluene-d8 (75-140%)* | | | | *119 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (75-135%)* | | | | *94.4 %* | | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: S Mesa 70211-0-150-02-2.2
Report Number: PJL0048

Sampled: 12/05/00
Received: 12/05/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJL0048-02 (MW-6D - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P0L1507 | 20 | ND | 1 | 12/15/00 | 12/15/00 | |
| Benzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromobenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromochloromethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromodichloromethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromoform | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromomethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 2-Butanone (MEK) | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| n-Butylbenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| sec-Butylbenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| tert-Butylbenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Carbon Disulfide | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | C |
| Carbon tetrachloride | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Chlorobenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Chloroethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Chloroform | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Chloromethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 2-Chlorotoluene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 4-Chlorotoluene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Dibromochloromethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Dibromomethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dichlorobenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,3-Dichlorobenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,4-Dichlorobenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Dichlorodifluoromethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | C |
| 1,1-Dichloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dichloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1-Dichloroethene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| cis-1,2-Dichloroethene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| trans-1,2-Dichloroethene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dichloropropane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,3-Dichloropropane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 2,2-Dichloropropane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1-Dichloropropene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| cis-1,3-Dichloropropene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| trans-1,3-Dichloropropene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Ethylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Hexachlorobutadiene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 2-Hexanone | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| Iodomethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Isopropylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| p-Isopropyltoluene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: S Mesa 70211-0-150-02-2.2

Report Number: PJL0048

Sampled: 12/05/00
Received: 12/05/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJL0048-02 (MW-6D - Water)** | | | | | | | | |
| Methylene chloride | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Naphthalene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| n-Propylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Styrene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Tetrachloroethene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Toluene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1,1-Trichloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1,2-Trichloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Trichloroethene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Trichlorofluoromethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2,3-Trichloropropane | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Vinyl acetate | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Vinyl chloride | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Xylenes, Total | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| *Surrogate: Dibromofluoromethane (70-160%)* | | | | *81.2 %* | | | | |
| *Surrogate: Toluene-d8 (75-140%)* | | | | *121 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (75-135%)* | | | | *94.4 %* | | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: S Mesa 70211-0-150-02-2.2
Report Number: PJL0048

Sampled: 12/05/00
Received: 12/05/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJL0048-03 (Trip Blank - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P0L1507 | 20 | ND | 1 | 12/15/00 | 12/15/00 | |
| Benzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromobenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromochloromethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromodichloromethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromoform | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Bromomethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 2-Butanone (MEK) | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| n-Butylbenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| sec-Butylbenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| tert-Butylbenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Carbon Disulfide | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | C |
| Carbon tetrachloride | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Chlorobenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Chloroethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Chloroform | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Chloromethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 2-Chlorotoluene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 4-Chlorotoluene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Dibromochloromethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Dibromomethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dichlorobenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,3-Dichlorobenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,4-Dichlorobenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Dichlorodifluoromethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | C |
| 1,1-Dichloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dichloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1-Dichloroethene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| cis-1,2-Dichloroethene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| trans-1,2-Dichloroethene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2-Dichloropropane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,3-Dichloropropane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 2,2-Dichloropropane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1-Dichloropropene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| cis-1,3-Dichloropropene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| trans-1,3-Dichloropropene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Ethylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Hexachlorobutadiene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 2-Hexanone | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| Iodomethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Isopropylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| p-Isopropyltoluene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: S Mesa 70211-0-150-02-2.2
Report Number: PJL0048

Sampled: 12/05/00
Received: 12/05/00

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJL0048-03 (Trip Blank - Water)** | | | | | | | | |
| Methylene chloride | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Naphthalene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| n-Propylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Styrene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Tetrachloroethene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Toluene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1,1-Trichloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,1,2-Trichloroethane | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Trichloroethene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Trichlorofluoromethane | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2,3-Trichloropropane | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P0L1507 | 2.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Vinyl acetate | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Vinyl chloride | EPA 8260B | P0L1507 | 5.0 | ND | 1 | 12/15/00 | 12/15/00 | |
| Xylenes, Total | EPA 8260B | P0L1507 | 10 | ND | 1 | 12/15/00 | 12/15/00 | |
| *Surrogate: Dibromofluoromethane (70-160%)* | | | | *82.0 %* | | | | |
| *Surrogate: Toluene-d8 (75-140%)* | | | | *116 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (75-135%)* | | | | *95.2 %* | | | | |

**DEL MAR ANALYTICAL, PHOENIX (AZ0426)**

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: S Mesa 70211-0-150-02-2.2
Report Number: PJL0048

Sampled: 12/05/00
Received: 12/05/00

## TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJL0048-01 (MW-5S - Water)** | | | | | | | | |
| Aluminum | EPA 200.7 | P0L0712 | 0.50 | ND | 1 | 12/7/00 | 12/11/00 | |
| Antimony | EPA 200.9 | P0L0605 | 0.0040 | ND | 1 | 12/6/00 | 12/7/00 | |
| **Arsenic** | EPA 200.9 | P0L0605 | 0.0030 | **0.0030** | 1 | 12/6/00 | 12/7/00 | |
| **Barium** | EPA 200.7 | P0L0712 | 0.010 | **0.071** | 1 | 12/7/00 | 12/8/00 | |
| Beryllium | EPA 200.9 | P0L0605 | 0.00050 | ND | 1 | 12/6/00 | 12/8/00 | C |
| Cadmium | EPA 200.9 | P0L0605 | 0.00050 | ND | 1 | 12/6/00 | 12/8/00 | |
| **Calcium** | EPA 200.7 | P0L0712 | 2.0 | **120** | 1 | 12/7/00 | 12/8/00 | M |
| **Chromium** | EPA 200.9 | P0L0605 | 0.0060 | **0.044** | 1.5 | 12/6/00 | 12/7/00 | |
| Cobalt | EPA 200.7 | P0L0712 | 0.050 | ND | 1 | 12/7/00 | 12/8/00 | |
| Copper | EPA 200.7 | P0L0712 | 0.020 | ND | 1 | 12/7/00 | 12/8/00 | |
| **Iron** | EPA 200.7 | P0L0712 | 0.10 | **0.39** | 1 | 12/7/00 | 12/8/00 | |
| Lead | EPA 200.7 | P0L0712 | 0.050 | ND | 1 | 12/7/00 | 12/8/00 | |
| **Magnesium** | EPA 200.7 | P0L0712 | 0.50 | **43** | 1 | 12/7/00 | 12/8/00 | |
| Manganese | EPA 200.7 | P0L0712 | 0.020 | ND | 1 | 12/7/00 | 12/8/00 | |
| Nickel | EPA 200.7 | P0L0712 | 0.050 | ND | 1 | 12/7/00 | 12/8/00 | |
| Lithium | EPA 7430 | P0L1209 | 1.0 | ND | 1 | 12/12/00 | 12/15/00 | L |
| Selenium | EPA 200.9 | P0L0605 | 0.0040 | ND | 1 | 12/6/00 | 12/7/00 | |
| Silver | EPA 200.7 | P0L0712 | 0.0050 | ND | 1 | 12/7/00 | 12/8/00 | |
| **Sodium** | EPA 273.1 | P0L0712 | 5.0 | **340** | 1 | 12/7/00 | 12/12/00 | M-HA |
| **Strontium** | EPA 200.7 | P0L0712 | 0.50 | **1.2** | 5 | 12/7/00 | 12/11/00 | |
| Vanadium | EPA 200.7 | P0L0712 | 0.050 | ND | 1 | 12/7/00 | 12/8/00 | |
| Zinc | EPA 200.7 | P0L0712 | 0.050 | ND | 1 | 12/7/00 | 12/8/00 | |
| **Sample ID: PJL0048-02 (MW-6D - Water)** | | | | | | | | |
| Aluminum | EPA 200.7 | P0L0712 | 0.50 | ND | 1 | 12/7/00 | 12/11/00 | |
| Antimony | EPA 200.9 | P0L0605 | 0.0040 | ND | 1 | 12/6/00 | 12/7/00 | |
| Arsenic | EPA 200.9 | P0L0605 | 0.0030 | ND | 1 | 12/6/00 | 12/7/00 | |
| **Barium** | EPA 200.7 | P0L0712 | 0.010 | **0.099** | 1 | 12/7/00 | 12/8/00 | |
| Beryllium | EPA 200.9 | P0L0605 | 0.00050 | ND | 1 | 12/6/00 | 12/8/00 | C |
| Cadmium | EPA 200.9 | P0L0605 | 0.00050 | ND | 1 | 12/6/00 | 12/8/00 | |
| **Calcium** | EPA 200.7 | P0L0712 | 2.0 | **250** | 1 | 12/7/00 | 12/8/00 | |
| **Chromium** | EPA 200.9 | P0L0605 | 0.0040 | **0.0091** | 1 | 12/6/00 | 12/7/00 | |
| Cobalt | EPA 200.7 | P0L0712 | 0.050 | ND | 1 | 12/7/00 | 12/8/00 | |
| Copper | EPA 200.7 | P0L0712 | 0.020 | ND | 1 | 12/7/00 | 12/8/00 | |
| **Iron** | EPA 200.7 | P0L0712 | 0.10 | **0.15** | 1 | 12/7/00 | 12/8/00 | |
| Lead | EPA 200.7 | P0L0712 | 0.050 | ND | 1 | 12/7/00 | 12/8/00 | |
| **Magnesium** | EPA 200.7 | P0L0712 | 0.50 | **86** | 1 | 12/7/00 | 12/8/00 | |
| Manganese | EPA 200.7 | P0L0712 | 0.020 | ND | 1 | 12/7/00 | 12/8/00 | |
| Nickel | EPA 200.7 | P0L0712 | 0.050 | ND | 1 | 12/7/00 | 12/8/00 | |
| Lithium | EPA 7430 | P0L1209 | 1.0 | ND | 1 | 12/12/00 | 12/15/00 | L |
| Selenium | EPA 200.9 | P0L0605 | 0.0040 | ND | 1 | 12/6/00 | 12/7/00 | |
| Silver | EPA 200.7 | P0L0712 | 0.0050 | ND | 1 | 12/7/00 | 12/8/00 | |
| **Sodium** | EPA 273.1 | P0L0712 | 5.0 | **460** | 1 | 12/7/00 | 12/12/00 | |
| **Strontium** | EPA 200.7 | P0L0712 | 0.50 | **2.2** | 5 | 12/7/00 | 12/11/00 | |
| Vanadium | EPA 200.7 | P0L0712 | 0.050 | ND | 1 | 12/7/00 | 12/8/00 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: S Mesa 70211-0-150-02-2.2
Report Number: PJL0048

Sampled: 12/05/00
Received: 12/05/00

## TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PJL0048-02 (MW-6D - Water)** | | | | | | | | |
| Zinc | EPA 200.7 | P0L0712 | 0.050 | ND | 1 | 12/7/00 | 12/8/00 | |

**DEL MAR ANALYTICAL, PHOENIX (AZ0426)**

Julie M. Slocum
Project Manager



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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: S Mesa 70211-0-150-02-2.2
Report Number: PJL0048

Sampled: 12/05/00
Received: 12/05/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L1507 Extracted: 12/15/00** | | | | | | | | | | |
| **Blank Analyzed: 12/15/00 (P0L1507-BLK1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | |
| Benzene | ND | 2.0 | ug/l | | | | | | | |
| Bromobenzene | ND | 5.0 | ug/l | | | | | | | |
| Bromochloromethane | ND | 5.0 | ug/l | | | | | | | |
| Bromodichloromethane | ND | 2.0 | ug/l | | | | | | | |
| Bromoform | ND | 5.0 | ug/l | | | | | | | |
| Bromomethane | ND | 5.0 | ug/l | | | | | | | |
| 2-Butanone (MEK) | ND | 10 | ug/l | | | | | | | |
| n-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| sec-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| tert-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| Carbon Disulfide | ND | 5.0 | ug/l | | | | | | | C |
| Carbon tetrachloride | ND | 5.0 | ug/l | | | | | | | |
| Chlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| Chloroethane | ND | 5.0 | ug/l | | | | | | | |
| Chloroform | ND | 2.0 | ug/l | | | | | | | |
| Chloromethane | ND | 5.0 | ug/l | | | | | | | |
| 2-Chlorotoluene | ND | 5.0 | ug/l | | | | | | | |
| 4-Chlorotoluene | ND | 5.0 | ug/l | | | | | | | |
| Dibromochloromethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/l | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 2.0 | ug/l | | | | | | | |
| Dibromomethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| Dichlorodifluoromethane | ND | 5.0 | ug/l | | | | | | | C |
| 1,1-Dichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,1-Dichloroethene | ND | 5.0 | ug/l | | | | | | | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: S Mesa 70211-0-150-02-2.2
Report Number: PJL0048

Sampled: 12/05/00
Received: 12/05/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L1507 Extracted: 12/15/00** | | | | | | | | | | |
| **Blank Analyzed: 12/15/00 (P0L1507-BLK1)** | | | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 2.0 | ug/l | | | | | | | |
| trans-1,2-Dichloroethene | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,3-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 2,2-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,1-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| cis-1,3-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| Ethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 5.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 10 | ug/l | | | | | | | |
| Iodomethane | ND | 2.0 | ug/l | | | | | | | |
| Isopropylbenzene | ND | 2.0 | ug/l | | | | | | | |
| p-Isopropyltoluene | ND | 2.0 | ug/l | | | | | | | |
| Methylene chloride | ND | 5.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 5.0 | ug/l | | | | | | | |
| Naphthalene | ND | 5.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Styrene | ND | 2.0 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/l | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 2.0 | ug/l | | | | | | | |
| Toluene | ND | 2.0 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 5.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,1,2-Trichloroethane | ND | 2.0 | ug/l | | | | | | | |
| Trichloroethene | ND | 2.0 | ug/l | | | | | | | |
| Trichlorofluoromethane | ND | 5.0 | ug/l | | | | | | | |

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: S Mesa 70211-0-150-02-2.2
Report Number: PJL0048

Sampled: 12/05/00
Received: 12/05/00

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L1507 Extracted: 12/15/00** | | | | | | | | | | |
| **Blank Analyzed: 12/15/00 (P0L1507-BLK1)** | | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 10 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Vinyl acetate | ND | 5.0 | ug/l | | | | | | | |
| Vinyl chloride | ND | 5.0 | ug/l | | | | | | | |
| Xylenes, Total | ND | 10 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *21.2* | | *ug/l* | *25.0* | | *84.8* | *70-160* | | | |
| *Surrogate: Toluene-d8* | *27.3* | | *ug/l* | *25.0* | | *109* | *75-140* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *23.6* | | *ug/l* | *25.0* | | *94.4* | *75-135* | | | |
| **LCS Analyzed: 12/15/00 (P0L1507-BS1)** | | | | | | | | | | |
| **Acetone** | **27.3** | 20 | ug/l | 25.0 | | 109 | 35-150 | | | |
| **Benzene** | **24.1** | 2.0 | ug/l | 25.0 | | 96.4 | 75-120 | | | |
| **Bromobenzene** | **23.9** | 5.0 | ug/l | 25.0 | | 95.6 | 65-150 | | | |
| **Bromochloromethane** | **24.2** | 5.0 | ug/l | 25.0 | | 96.8 | 60-155 | | | |
| **Bromodichloromethane** | **22.4** | 2.0 | ug/l | 25.0 | | 89.6 | 60-155 | | | |
| **Bromoform** | **29.8** | 5.0 | ug/l | 25.0 | | 119 | 25-160 | | | |
| **Bromomethane** | **18.9** | 5.0 | ug/l | 25.0 | | 75.6 | 55-170 | | | |
| **2-Butanone (MEK)** | **25.6** | 10 | ug/l | 25.0 | | 102 | 35-165 | | | |
| **n-Butylbenzene** | **23.1** | 5.0 | ug/l | 25.0 | | 92.4 | 65-140 | | | |
| **sec-Butylbenzene** | **23.8** | 5.0 | ug/l | 25.0 | | 95.2 | 60-145 | | | |
| **tert-Butylbenzene** | **24.5** | 5.0 | ug/l | 25.0 | | 98.0 | 65-145 | | | |
| **Carbon Disulfide** | **37.3** | 5.0 | ug/l | 25.0 | | 149 | 65-155 | | | C |
| **Carbon tetrachloride** | **21.0** | 5.0 | ug/l | 25.0 | | 84.0 | 65-150 | | | |
| **Chlorobenzene** | **27.8** | 2.0 | ug/l | 25.0 | | 111 | 75-130 | | | |
| **Chloroethane** | **25.2** | 5.0 | ug/l | 25.0 | | 101 | 65-165 | | | |
| **Chloroform** | **21.3** | 2.0 | ug/l | 25.0 | | 85.2 | 70-130 | | | |
| **Chloromethane** | **26.9** | 5.0 | ug/l | 25.0 | | 108 | 60-165 | | | |
| **2-Chlorotoluene** | **25.5** | 5.0 | ug/l | 25.0 | | 102 | 65-145 | | | |
| **4-Chlorotoluene** | **25.2** | 5.0 | ug/l | 25.0 | | 101 | 70-145 | | | |
| **Dibromochloromethane** | **25.3** | 2.0 | ug/l | 25.0 | | 101 | 55-155 | | | |

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Project Manager



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Law Engineering
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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: S Mesa 70211-0-150-02-2.2
Report Number: PJL0048

Sampled: 12/05/00
Received: 12/05/00

## METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L1507 Extracted: 12/15/00** | | | | | | | | | | |
| **LCS Analyzed: 12/15/00 (P0L1507-BS1)** | | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | 24.3 | 5.0 | ug/l | 25.0 | | 97.2 | 40-150 | | | |
| 1,2-Dibromoethane (EDB) | 26.1 | 2.0 | ug/l | 25.0 | | 104 | 55-155 | | | |
| Dibromomethane | 23.7 | 2.0 | ug/l | 25.0 | | 94.8 | 60-155 | | | |
| 1,2-Dichlorobenzene | 24.8 | 2.0 | ug/l | 25.0 | | 99.2 | 65-140 | | | |
| 1,3-Dichlorobenzene | 24.4 | 2.0 | ug/l | 25.0 | | 97.6 | 65-145 | | | |
| 1,4-Dichlorobenzene | 25.1 | 2.0 | ug/l | 25.0 | | 100 | 65-140 | | | |
| Dichlorodifluoromethane | 33.3 | 5.0 | ug/l | 25.0 | | 133 | 30-190 | | | C |
| 1,1-Dichloroethane | 20.6 | 2.0 | ug/l | 25.0 | | 82.4 | 70-130 | | | |
| 1,2-Dichloroethane | 19.9 | 2.0 | ug/l | 25.0 | | 79.6 | 70-130 | | | |
| 1,1-Dichloroethene | 20.3 | 5.0 | ug/l | 25.0 | | 81.2 | 75-125 | | | |
| cis-1,2-Dichloroethene | 21.6 | 2.0 | ug/l | 25.0 | | 86.4 | 70-130 | | | |
| trans-1,2-Dichloroethene | 22.2 | 2.0 | ug/l | 25.0 | | 88.8 | 55-175 | | | |
| 1,2-Dichloropropane | 23.8 | 2.0 | ug/l | 25.0 | | 95.2 | 70-130 | | | |
| 1,3-Dichloropropane | 26.2 | 2.0 | ug/l | 25.0 | | 105 | 60-150 | | | |
| 2,2-Dichloropropane | 20.7 | 2.0 | ug/l | 25.0 | | 82.8 | 15-200 | | | |
| 1,1-Dichloropropene | 22.3 | 2.0 | ug/l | 25.0 | | 89.2 | 65-150 | | | |
| cis-1,3-Dichloropropene | 23.6 | 2.0 | ug/l | 25.0 | | 94.4 | 65-150 | | | |
| trans-1,3-Dichloropropene | 25.6 | 2.0 | ug/l | 25.0 | | 102 | 60-150 | | | |
| Ethylbenzene | 28.9 | 2.0 | ug/l | 25.0 | | 116 | 60-150 | | | |
| Hexachlorobutadiene | 23.8 | 5.0 | ug/l | 25.0 | | 95.2 | 55-150 | | | |
| 2-Hexanone | 27.1 | 10 | ug/l | 25.0 | | 108 | 35-165 | | | |
| Iodomethane | 37.5 | 2.0 | ug/l | 25.0 | | 150 | 65-160 | | | |
| Isopropylbenzene | 27.3 | 2.0 | ug/l | 25.0 | | 109 | 65-145 | | | |
| p-Isopropyltoluene | 22.7 | 2.0 | ug/l | 25.0 | | 90.8 | 60-145 | | | |
| Methylene chloride | 22.9 | 5.0 | ug/l | 25.0 | | 91.6 | 65-160 | | | |
| 4-Methyl-2-pentanone (MIBK) | 24.6 | 10 | ug/l | 25.0 | | 98.4 | 40-165 | | | |
| Methyl-tert-butyl Ether (MTBE) | 20.1 | 5.0 | ug/l | 25.0 | | 80.4 | 60-160 | | | |
| Naphthalene | 23.2 | 5.0 | ug/l | 25.0 | | 92.8 | 50-150 | | | |
| n-Propylbenzene | 23.1 | 2.0 | ug/l | 25.0 | | 92.4 | 70-145 | | | |
| Styrene | 28.6 | 2.0 | ug/l | 25.0 | | 114 | 65-150 | | | |
| 1,1,1,2-Tetrachloroethane | 27.1 | 5.0 | ug/l | 25.0 | | 108 | 60-155 | | | |

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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: S Mesa 70211-0-150-02-2.2
Report Number: PJL0048

Sampled: 12/05/00
Received: 12/05/00

## METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L1507 Extracted: 12/15/00** | | | | | | | | | | |
| **LCS Analyzed: 12/15/00 (P0L1507-BS1)** | | | | | | | | | | |
| **1,1,2,2-Tetrachloroethane** | **23.4** | 2.0 | ug/l | 25.0 | | 93.6 | 65-150 | | | |
| **Tetrachloroethene** | **27.9** | 2.0 | ug/l | 25.0 | | 112 | 70-130 | | | |
| **Toluene** | **26.7** | 2.0 | ug/l | 25.0 | | 107 | 70-125 | | | |
| **1,2,3-Trichlorobenzene** | **23.4** | 5.0 | ug/l | 25.0 | | 93.6 | 55-150 | | | |
| **1,2,4-Trichlorobenzene** | **24.0** | 5.0 | ug/l | 25.0 | | 96.0 | 60-145 | | | |
| **1,1,1-Trichloroethane** | **20.6** | 2.0 | ug/l | 25.0 | | 82.4 | 70-130 | | | |
| **1,1,2-Trichloroethane** | **28.5** | 2.0 | ug/l | 25.0 | | 114 | 70-130 | | | |
| **Trichloroethene** | **25.3** | 2.0 | ug/l | 25.0 | | 101 | 75-120 | | | |
| **Trichlorofluoromethane** | **20.8** | 5.0 | ug/l | 25.0 | | 83.2 | 10-200 | | | |
| **1,2,3-Trichloropropane** | **22.5** | 10 | ug/l | 25.0 | | 90.0 | 55-150 | | | |
| **1,2,4-Trimethylbenzene** | **23.2** | 2.0 | ug/l | 25.0 | | 92.8 | 65-150 | | | |
| **1,3,5-Trimethylbenzene** | **22.9** | 2.0 | ug/l | 25.0 | | 91.6 | 65-150 | | | |
| **Vinyl acetate** | **31.0** | 5.0 | ug/l | 25.0 | | 124 | 50-160 | | | |
| **Vinyl chloride** | **25.3** | 5.0 | ug/l | 25.0 | | 101 | 25-200 | | | |
| **Xylenes, Total** | **87.6** | 10 | ug/l | 75.0 | | 117 | 65-145 | | | |
| *Surrogate: Dibromofluoromethane* | *22.0* | | *ug/l* | *25.0* | | *88.0* | *70-160* | | | |
| *Surrogate: Toluene-d8* | *27.1* | | *ug/l* | *25.0* | | *108* | *75-140* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *24.4* | | *ug/l* | *25.0* | | *97.6* | *75-135* | | | |
| **LCS Dup Analyzed: 12/15/00 (P0L1507-BSD1)** | | | | | | | | | | |
| **Acetone** | **22.3** | 20 | ug/l | 25.0 | | 89.2 | 35-150 | 20.2 | 20 | R2 |
| **Benzene** | **25.8** | 2.0 | ug/l | 25.0 | | 103 | 75-120 | 6.81 | 20 | |
| **Bromobenzene** | **25.8** | 5.0 | ug/l | 25.0 | | 103 | 65-150 | 7.65 | 20 | |
| **Bromochloromethane** | **26.6** | 5.0 | ug/l | 25.0 | | 106 | 60-155 | 9.45 | 20 | |
| **Bromodichloromethane** | **23.1** | 2.0 | ug/l | 25.0 | | 92.4 | 60-155 | 3.08 | 20 | |
| **Bromoform** | **33.3** | 5.0 | ug/l | 25.0 | | 133 | 25-160 | 11.1 | 20 | |
| **Bromomethane** | **23.3** | 5.0 | ug/l | 25.0 | | 93.2 | 55-170 | 20.9 | 20 | R2 |
| **2-Butanone (MEK)** | **25.8** | 10 | ug/l | 25.0 | | 103 | 35-165 | 0.778 | 20 | |
| **n-Butylbenzene** | **25.5** | 5.0 | ug/l | 25.0 | | 102 | 65-140 | 9.88 | 20 | |
| **sec-Butylbenzene** | **25.7** | 5.0 | ug/l | 25.0 | | 103 | 60-145 | 7.68 | 20 | |
| **tert-Butylbenzene** | **26.3** | 5.0 | ug/l | 25.0 | | 105 | 65-145 | 7.09 | 20 | |

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Report Number: PJL0048

Sampled: 12/05/00
Received: 12/05/00

## METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L1507 Extracted: 12/15/00** | | | | | | | | | | |
| **LCS Dup Analyzed: 12/15/00 (P0L1507-BSD1)** | | | | | | | | | | |
| **Carbon Disulfide** | **38.8** | 5.0 | ug/l | 25.0 | | 155 | 65-155 | 3.94 | 20 | C |
| **Carbon tetrachloride** | **21.3** | 5.0 | ug/l | 25.0 | | 85.2 | 65-150 | 1.42 | 20 | |
| **Chlorobenzene** | **30.5** | 2.0 | ug/l | 25.0 | | 122 | 75-130 | 9.26 | 20 | |
| **Chloroethane** | **25.9** | 5.0 | ug/l | 25.0 | | 104 | 65-165 | 2.74 | 20 | |
| **Chloroform** | **21.3** | 2.0 | ug/l | 25.0 | | 85.2 | 70-130 | 0 | 20 | |
| **Chloromethane** | **31.8** | 5.0 | ug/l | 25.0 | | 127 | 60-165 | 16.7 | 20 | |
| **2-Chlorotoluene** | **26.5** | 5.0 | ug/l | 25.0 | | 106 | 65-145 | 3.85 | 20 | |
| **4-Chlorotoluene** | **25.9** | 5.0 | ug/l | 25.0 | | 104 | 70-145 | 2.74 | 20 | |
| **Dibromochloromethane** | **28.7** | 2.0 | ug/l | 25.0 | | 115 | 55-155 | 12.6 | 20 | |
| **1,2-Dibromo-3-chloropropane** | **30.9** | 5.0 | ug/l | 25.0 | | 124 | 40-150 | 23.9 | 20 | R2 |
| **1,2-Dibromoethane (EDB)** | **30.4** | 2.0 | ug/l | 25.0 | | 122 | 55-155 | 15.2 | 20 | |
| **Dibromomethane** | **25.0** | 2.0 | ug/l | 25.0 | | 100 | 60-155 | 5.34 | 20 | |
| **1,2-Dichlorobenzene** | **26.7** | 2.0 | ug/l | 25.0 | | 107 | 65-140 | 7.38 | 20 | |
| **1,3-Dichlorobenzene** | **26.4** | 2.0 | ug/l | 25.0 | | 106 | 65-145 | 7.87 | 20 | |
| **1,4-Dichlorobenzene** | **26.5** | 2.0 | ug/l | 25.0 | | 106 | 65-140 | 5.43 | 20 | |
| **Dichlorodifluoromethane** | **35.3** | 5.0 | ug/l | 25.0 | | 141 | 30-190 | 5.83 | 20 | C |
| **1,1-Dichloroethane** | **21.6** | 2.0 | ug/l | 25.0 | | 86.4 | 70-130 | 4.74 | 20 | |
| **1,2-Dichloroethane** | **20.7** | 2.0 | ug/l | 25.0 | | 82.8 | 70-130 | 3.94 | 20 | |
| **1,1-Dichloroethene** | **22.1** | 5.0 | ug/l | 25.0 | | 88.4 | 75-125 | 8.49 | 20 | |
| **cis-1,2-Dichloroethene** | **23.6** | 2.0 | ug/l | 25.0 | | 94.4 | 70-130 | 8.85 | 20 | |
| **trans-1,2-Dichloroethene** | **23.8** | 2.0 | ug/l | 25.0 | | 95.2 | 55-175 | 6.96 | 20 | |
| **1,2-Dichloropropane** | **25.0** | 2.0 | ug/l | 25.0 | | 100 | 70-130 | 4.92 | 20 | |
| **1,3-Dichloropropane** | **29.3** | 2.0 | ug/l | 25.0 | | 117 | 60-150 | 11.2 | 20 | |
| **2,2-Dichloropropane** | **21.2** | 2.0 | ug/l | 25.0 | | 84.8 | 15-200 | 2.39 | 20 | |
| **1,1-Dichloropropene** | **22.9** | 2.0 | ug/l | 25.0 | | 91.6 | 65-150 | 2.65 | 20 | |
| **cis-1,3-Dichloropropene** | **25.5** | 2.0 | ug/l | 25.0 | | 102 | 65-150 | 7.74 | 20 | |
| **trans-1,3-Dichloropropene** | **28.2** | 2.0 | ug/l | 25.0 | | 113 | 60-150 | 9.67 | 20 | |
| **Ethylbenzene** | **31.1** | 2.0 | ug/l | 25.0 | | 124 | 60-150 | 7.33 | 20 | |
| **Hexachlorobutadiene** | **28.8** | 5.0 | ug/l | 25.0 | | 115 | 55-150 | 19.0 | 20 | |
| **2-Hexanone** | **30.8** | 10 | ug/l | 25.0 | | 123 | 35-165 | 12.8 | 20 | |
| **Iodomethane** | **35.4** | 2.0 | ug/l | 25.0 | | 142 | 65-160 | 5.76 | 20 | |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: S Mesa 70211-0-150-02-2.2
Report Number: PJL0048

Sampled: 12/05/00
Received: 12/05/00

## METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L1507 Extracted: 12/15/00** | | | | | | | | | | |
| **LCS Dup Analyzed: 12/15/00 (P0L1507-BSD1)** | | | | | | | | | | |
| **Isopropylbenzene** | **29.7** | 2.0 | ug/l | 25.0 | | 119 | 65-145 | 8.42 | 20 | |
| **p-Isopropyltoluene** | **23.8** | 2.0 | ug/l | 25.0 | | 95.2 | 60-145 | 4.73 | 20 | |
| **Methylene chloride** | **23.8** | 5.0 | ug/l | 25.0 | | 95.2 | 65-160 | 3.85 | 20 | |
| **4-Methyl-2-pentanone (MIBK)** | **29.3** | 10 | ug/l | 25.0 | | 117 | 40-165 | 17.4 | 20 | |
| **Methyl-tert-butyl Ether (MTBE)** | **20.5** | 5.0 | ug/l | 25.0 | | 82.0 | 60-160 | 1.97 | 20 | |
| **Naphthalene** | **30.8** | 5.0 | ug/l | 25.0 | | 123 | 50-150 | 28.1 | 20 | R2 |
| **n-Propylbenzene** | **24.3** | 2.0 | ug/l | 25.0 | | 97.2 | 70-145 | 5.06 | 20 | |
| **Styrene** | **32.2** | 2.0 | ug/l | 25.0 | | 129 | 65-150 | 11.8 | 20 | |
| **1,1,1,2-Tetrachloroethane** | **29.0** | 5.0 | ug/l | 25.0 | | 116 | 60-155 | 6.77 | 20 | |
| **1,1,2,2-Tetrachloroethane** | **28.5** | 2.0 | ug/l | 25.0 | | 114 | 65-150 | 19.7 | 20 | |
| **Tetrachloroethene** | **30.1** | 2.0 | ug/l | 25.0 | | 120 | 70-130 | 7.59 | 20 | |
| **Toluene** | **29.7** | 2.0 | ug/l | 25.0 | | 119 | 70-125 | 10.6 | 20 | |
| **1,2,3-Trichlorobenzene** | **29.9** | 5.0 | ug/l | 25.0 | | 120 | 55-150 | 24.4 | 20 | R2 |
| **1,2,4-Trichlorobenzene** | **27.9** | 5.0 | ug/l | 25.0 | | 112 | 60-145 | 15.0 | 20 | |
| **1,1,1-Trichloroethane** | **21.1** | 2.0 | ug/l | 25.0 | | 84.4 | 70-130 | 2.40 | 20 | |
| **1,1,2-Trichloroethane** | **30.2** | 2.0 | ug/l | 25.0 | | 121 | 70-130 | 5.79 | 20 | |
| **Trichloroethene** | **26.6** | 2.0 | ug/l | 25.0 | | 106 | 75-120 | 5.01 | 20 | |
| **Trichlorofluoromethane** | **21.4** | 5.0 | ug/l | 25.0 | | 85.6 | 10-200 | 2.84 | 20 | |
| **1,2,3-Trichloropropane** | **27.2** | 10 | ug/l | 25.0 | | 109 | 55-150 | 18.9 | 20 | |
| **1,2,4-Trimethylbenzene** | **24.2** | 2.0 | ug/l | 25.0 | | 96.8 | 65-150 | 4.22 | 20 | |
| **1,3,5-Trimethylbenzene** | **24.0** | 2.0 | ug/l | 25.0 | | 96.0 | 65-150 | 4.69 | 20 | |
| **Vinyl acetate** | **31.8** | 5.0 | ug/l | 25.0 | | 127 | 50-160 | 2.55 | 20 | |
| **Vinyl chloride** | **27.2** | 5.0 | ug/l | 25.0 | | 109 | 25-200 | 7.24 | 20 | |
| **Xylenes, Total** | **95.4** | 10 | ug/l | 75.0 | | 127 | 65-145 | 8.52 | 20 | |
| *Surrogate: Dibromofluoromethane* | *22.8* | | *ug/l* | *25.0* | | *91.2* | *70-160* | | | |
| *Surrogate: Toluene-d8* | *29.6* | | *ug/l* | *25.0* | | *118* | *75-140* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.2* | | *ug/l* | *25.0* | | *101* | *75-135* | | | |

Julie M. Slocum
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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: S Mesa 70211-0-150-02-2.2
Report Number: PJL0048

Sampled: 12/05/00
Received: 12/05/00

## METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L1507 Extracted: 12/15/00** | | | | | | | | | | |
| **Matrix Spike Analyzed: 12/15/00 (P0L1507-MS1)** | | | | | **Source: PJL0071-03** | | | | | |
| **Acetone** | **20.7** | 20 | ug/l | 25.0 | ND | 82.8 | 35-150 | | | |
| **Benzene** | **24.8** | 2.0 | ug/l | 25.0 | ND | 99.2 | 75-120 | | | |
| **Bromobenzene** | **26.2** | 5.0 | ug/l | 25.0 | ND | 105 | 65-150 | | | |
| **Bromochloromethane** | **23.5** | 5.0 | ug/l | 25.0 | ND | 94.0 | 60-155 | | | |
| **Bromodichloromethane** | **21.0** | 2.0 | ug/l | 25.0 | ND | 84.0 | 60-155 | | | |
| **Bromoform** | **33.4** | 5.0 | ug/l | 25.0 | ND | 134 | 25-160 | | | |
| **Bromomethane** | **16.3** | 5.0 | ug/l | 25.0 | ND | 65.2 | 55-170 | | | |
| **2-Butanone (MEK)** | **26.1** | 10 | ug/l | 25.0 | ND | 104 | 35-165 | | | |
| **n-Butylbenzene** | **23.3** | 5.0 | ug/l | 25.0 | ND | 93.2 | 65-140 | | | |
| **sec-Butylbenzene** | **24.8** | 5.0 | ug/l | 25.0 | ND | 99.2 | 60-145 | | | |
| **tert-Butylbenzene** | **26.2** | 5.0 | ug/l | 25.0 | ND | 105 | 65-145 | | | |
| **Carbon Disulfide** | **38.7** | 5.0 | ug/l | 25.0 | ND | 155 | 65-155 | | | C |
| **Carbon tetrachloride** | **17.7** | 5.0 | ug/l | 25.0 | ND | 70.8 | 65-150 | | | |
| **Chlorobenzene** | **30.9** | 2.0 | ug/l | 25.0 | ND | 124 | 75-130 | | | |
| **Chloroethane** | **23.2** | 5.0 | ug/l | 25.0 | ND | 92.8 | 65-165 | | | |
| **Chloroform** | **21.1** | 2.0 | ug/l | 25.0 | ND | 84.4 | 70-130 | | | |
| **Chloromethane** | **24.6** | 5.0 | ug/l | 25.0 | ND | 98.4 | 60-165 | | | |
| **2-Chlorotoluene** | **27.8** | 5.0 | ug/l | 25.0 | ND | 111 | 65-145 | | | |
| **4-Chlorotoluene** | **20.3** | 5.0 | ug/l | 25.0 | ND | 81.2 | 70-145 | | | |
| **Dibromochloromethane** | **28.0** | 2.0 | ug/l | 25.0 | ND | 112 | 55-155 | | | |
| **1,2-Dibromo-3-chloropropane** | **31.1** | 5.0 | ug/l | 25.0 | ND | 124 | 40-150 | | | |
| **1,2-Dibromoethane (EDB)** | **30.7** | 2.0 | ug/l | 25.0 | ND | 123 | 55-155 | | | |
| **Dibromomethane** | **22.0** | 2.0 | ug/l | 25.0 | ND | 88.0 | 60-155 | | | |
| **1,2-Dichlorobenzene** | **26.9** | 2.0 | ug/l | 25.0 | ND | 108 | 65-140 | | | |
| **1,3-Dichlorobenzene** | **26.3** | 2.0 | ug/l | 25.0 | ND | 105 | 65-145 | | | |
| **1,4-Dichlorobenzene** | **26.3** | 2.0 | ug/l | 25.0 | ND | 105 | 65-140 | | | |
| **Dichlorodifluoromethane** | **30.4** | 5.0 | ug/l | 25.0 | ND | 122 | 30-190 | | | C |
| **1,1-Dichloroethane** | **20.5** | 2.0 | ug/l | 25.0 | ND | 82.0 | 70-130 | | | |
| **1,2-Dichloroethane** | **18.0** | 2.0 | ug/l | 25.0 | ND | 72.0 | 70-130 | | | |
| **1,1-Dichloroethene** | **21.8** | 5.0 | ug/l | 25.0 | ND | 87.2 | 65-135 | | | |
| **cis-1,2-Dichloroethene** | **24.6** | 2.0 | ug/l | 25.0 | ND | 98.4 | 70-130 | | | |

Julie M. Slocum
Project Manager



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Attention: Jim Clarke

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Report Number: PJL0048

Sampled: 12/05/00
Received: 12/05/00

## METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L1507 Extracted: 12/15/00** | | | | | | | | | | |
| **Matrix Spike Analyzed: 12/15/00 (P0L1507-MS1)** | | | | | **Source: PJL0071-03** | | | | | |
| trans-1,2-Dichloroethene | 23.3 | 2.0 | ug/l | 25.0 | ND | 93.2 | 55-175 | | | |
| 1,2-Dichloropropane | 24.3 | 2.0 | ug/l | 25.0 | ND | 97.2 | 70-130 | | | |
| 1,3-Dichloropropane | 29.3 | 2.0 | ug/l | 25.0 | ND | 117 | 60-150 | | | |
| 2,2-Dichloropropane | 17.3 | 2.0 | ug/l | 25.0 | ND | 69.2 | 15-200 | | | |
| 1,1-Dichloropropene | 21.3 | 2.0 | ug/l | 25.0 | ND | 85.2 | 65-150 | | | |
| cis-1,3-Dichloropropene | 22.2 | 2.0 | ug/l | 25.0 | ND | 88.8 | 65-150 | | | |
| trans-1,3-Dichloropropene | 25.2 | 2.0 | ug/l | 25.0 | ND | 101 | 60-150 | | | |
| Ethylbenzene | 32.3 | 2.0 | ug/l | 25.0 | ND | 129 | 60-150 | | | |
| Hexachlorobutadiene | 18.4 | 5.0 | ug/l | 25.0 | ND | 73.6 | 55-150 | | | |
| 2-Hexanone | 32.8 | 10 | ug/l | 25.0 | ND | 131 | 35-165 | | | |
| Iodomethane | 18.7 | 2.0 | ug/l | 25.0 | ND | 74.8 | 65-160 | | | |
| Isopropylbenzene | 30.1 | 2.0 | ug/l | 25.0 | ND | 120 | 65-145 | | | |
| p-Isopropyltoluene | 23.6 | 2.0 | ug/l | 25.0 | ND | 94.4 | 60-145 | | | |
| Methylene chloride | 23.4 | 5.0 | ug/l | 25.0 | ND | 93.6 | 65-160 | | | |
| 4-Methyl-2-pentanone (MIBK) | 26.8 | 10 | ug/l | 25.0 | ND | 107 | 40-165 | | | |
| Methyl-tert-butyl Ether (MTBE) | 18.5 | 5.0 | ug/l | 25.0 | ND | 74.0 | 60-160 | | | |
| Naphthalene | 28.1 | 5.0 | ug/l | 25.0 | ND | 112 | 50-150 | | | |
| n-Propylbenzene | 23.8 | 2.0 | ug/l | 25.0 | ND | 95.2 | 70-145 | | | |
| Styrene | 25.8 | 2.0 | ug/l | 25.0 | ND | 103 | 65-150 | | | |
| 1,1,1,2-Tetrachloroethane | 28.7 | 5.0 | ug/l | 25.0 | ND | 115 | 60-155 | | | |
| 1,1,2,2-Tetrachloroethane | 30.6 | 2.0 | ug/l | 25.0 | ND | 122 | 65-150 | | | |
| Tetrachloroethene | 32.5 | 2.0 | ug/l | 25.0 | ND | 130 | 70-130 | | | |
| Toluene | 30.5 | 2.0 | ug/l | 25.0 | ND | 122 | 70-125 | | | |
| 1,2,3-Trichlorobenzene | 25.2 | 5.0 | ug/l | 25.0 | ND | 101 | 55-150 | | | |
| 1,2,4-Trichlorobenzene | 25.1 | 5.0 | ug/l | 25.0 | ND | 100 | 60-145 | | | |
| 1,1,1-Trichloroethane | 18.8 | 2.0 | ug/l | 25.0 | ND | 75.2 | 70-130 | | | |
| 1,1,2-Trichloroethane | 31.6 | 2.0 | ug/l | 25.0 | ND | 126 | 70-130 | | | |
| Trichloroethene | 25.8 | 2.0 | ug/l | 25.0 | ND | 103 | 75-120 | | | |
| Trichlorofluoromethane | 19.2 | 5.0 | ug/l | 25.0 | ND | 76.8 | 10-200 | | | |
| 1,2,3-Trichloropropane | 25.9 | 10 | ug/l | 25.0 | ND | 104 | 55-150 | | | |
| 1,2,4-Trimethylbenzene | 23.5 | 2.0 | ug/l | 25.0 | ND | 94.0 | 65-150 | | | |

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Attention: Jim Clarke

Client Project ID: S Mesa 70211-0-150-02-2.2
Report Number: PJL0048

Sampled: 12/05/00
Received: 12/05/00

## METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L1507 Extracted: 12/15/00** | | | | | | | | | | |
| **Matrix Spike Analyzed: 12/15/00 (P0L1507-MS1)** | | | | | **Source: PJL0071-03** | | | | | |
| **1,3,5-Trimethylbenzene** | **23.6** | 2.0 | ug/l | 25.0 | ND | 94.4 | 65-150 | | | |
| **Vinyl acetate** | **26.2** | 5.0 | ug/l | 25.0 | ND | 105 | 50-160 | | | |
| **Vinyl chloride** | **25.9** | 5.0 | ug/l | 25.0 | ND | 104 | 25-200 | | | |
| **Xylenes, Total** | **98.8** | 10 | ug/l | 75.0 | ND | 132 | 65-145 | | | |
| *Surrogate: Dibromofluoromethane* | *21.9* | | *ug/l* | *25.0* | | *87.6* | *70-160* | | | |
| *Surrogate: Toluene-d8* | *30.0* | | *ug/l* | *25.0* | | *120* | *75-140* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.3* | | *ug/l* | *25.0* | | *105* | *75-135* | | | |
| **Matrix Spike Dup Analyzed: 12/15/00 (P0L1507-MSD1)** | | | | | **Source: PJL0071-03** | | | | | |
| Acetone | ND | 20 | ug/l | 25.0 | ND | 72.4 | 35-150 | 13.4 | 20 | |
| **Benzene** | **25.1** | 2.0 | ug/l | 25.0 | ND | 100 | 75-120 | 1.20 | 20 | |
| **Bromobenzene** | **25.9** | 5.0 | ug/l | 25.0 | ND | 104 | 65-150 | 1.15 | 20 | |
| **Bromochloromethane** | **22.2** | 5.0 | ug/l | 25.0 | ND | 88.8 | 60-155 | 5.69 | 20 | |
| **Bromodichloromethane** | **20.4** | 2.0 | ug/l | 25.0 | ND | 81.6 | 60-155 | 2.90 | 20 | |
| **Bromoform** | **33.9** | 5.0 | ug/l | 25.0 | ND | 136 | 25-160 | 1.49 | 20 | |
| **Bromomethane** | **18.4** | 5.0 | ug/l | 25.0 | ND | 73.6 | 55-170 | 12.1 | 20 | |
| **2-Butanone (MEK)** | **26.8** | 10 | ug/l | 25.0 | ND | 107 | 35-165 | 2.65 | 20 | |
| **n-Butylbenzene** | **23.9** | 5.0 | ug/l | 25.0 | ND | 95.6 | 65-140 | 2.54 | 20 | |
| **sec-Butylbenzene** | **24.6** | 5.0 | ug/l | 25.0 | ND | 98.4 | 60-145 | 0.810 | 20 | |
| **tert-Butylbenzene** | **25.8** | 5.0 | ug/l | 25.0 | ND | 103 | 65-145 | 1.54 | 20 | |
| **Carbon Disulfide** | **38.2** | 5.0 | ug/l | 25.0 | ND | 153 | 65-155 | 1.30 | 20 | C |
| **Carbon tetrachloride** | **17.0** | 5.0 | ug/l | 25.0 | ND | 68.0 | 65-150 | 4.03 | 20 | |
| **Chlorobenzene** | **33.1** | 2.0 | ug/l | 25.0 | ND | 132 | 75-130 | 6.87 | 20 | M |
| **Chloroethane** | **23.0** | 5.0 | ug/l | 25.0 | ND | 92.0 | 65-165 | 0.866 | 20 | |
| **Chloroform** | **20.6** | 2.0 | ug/l | 25.0 | ND | 82.4 | 70-130 | 2.40 | 20 | |
| **Chloromethane** | **27.1** | 5.0 | ug/l | 25.0 | ND | 108 | 60-165 | 9.67 | 20 | |
| **2-Chlorotoluene** | **25.8** | 5.0 | ug/l | 25.0 | ND | 103 | 65-145 | 7.46 | 20 | |
| **4-Chlorotoluene** | **25.8** | 5.0 | ug/l | 25.0 | ND | 103 | 70-145 | 23.9 | 20 | R2 |
| **Dibromochloromethane** | **28.9** | 2.0 | ug/l | 25.0 | ND | 116 | 55-155 | 3.16 | 20 | |
| **1,2-Dibromo-3-chloropropane** | **28.7** | 5.0 | ug/l | 25.0 | ND | 115 | 40-150 | 8.03 | 20 | |
| **1,2-Dibromoethane (EDB)** | **32.0** | 2.0 | ug/l | 25.0 | ND | 128 | 55-155 | 4.15 | 20 | |

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Sampled: 12/05/00
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## METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L1507 Extracted: 12/15/00** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 12/15/00 (P0L1507-MSD1)** | | | | | **Source: PJL0071-03** | | | | | |
| Dibromomethane | 21.5 | 2.0 | ug/l | 25.0 | ND | 86.0 | 60-155 | 2.30 | 20 | |
| 1,2-Dichlorobenzene | 26.1 | 2.0 | ug/l | 25.0 | ND | 104 | 65-140 | 3.02 | 20 | |
| 1,3-Dichlorobenzene | 25.6 | 2.0 | ug/l | 25.0 | ND | 102 | 65-145 | 2.70 | 20 | |
| 1,4-Dichlorobenzene | 25.4 | 2.0 | ug/l | 25.0 | ND | 102 | 65-140 | 3.48 | 20 | |
| Dichlorodifluoromethane | 30.0 | 5.0 | ug/l | 25.0 | ND | 120 | 30-190 | 1.32 | 20 | C |
| 1,1-Dichloroethane | 19.8 | 2.0 | ug/l | 25.0 | ND | 79.2 | 70-130 | 3.47 | 20 | |
| 1,2-Dichloroethane | 18.1 | 2.0 | ug/l | 25.0 | ND | 72.4 | 70-130 | 0.554 | 20 | |
| 1,1-Dichloroethene | 22.4 | 5.0 | ug/l | 25.0 | ND | 89.6 | 65-135 | 2.71 | 20 | |
| cis-1,2-Dichloroethene | 24.9 | 2.0 | ug/l | 25.0 | ND | 99.6 | 70-130 | 1.21 | 20 | |
| trans-1,2-Dichloroethene | 22.7 | 2.0 | ug/l | 25.0 | ND | 90.8 | 55-175 | 2.61 | 20 | |
| 1,2-Dichloropropane | 23.8 | 2.0 | ug/l | 25.0 | ND | 95.2 | 70-130 | 2.08 | 20 | |
| 1,3-Dichloropropane | 31.6 | 2.0 | ug/l | 25.0 | ND | 126 | 60-150 | 7.55 | 20 | |
| 2,2-Dichloropropane | 16.8 | 2.0 | ug/l | 25.0 | ND | 67.2 | 15-200 | 2.93 | 20 | |
| 1,1-Dichloropropene | 21.0 | 2.0 | ug/l | 25.0 | ND | 84.0 | 65-150 | 1.42 | 20 | |
| cis-1,3-Dichloropropene | 21.9 | 2.0 | ug/l | 25.0 | ND | 87.6 | 65-150 | 1.36 | 20 | |
| trans-1,3-Dichloropropene | 25.8 | 2.0 | ug/l | 25.0 | ND | 103 | 60-150 | 2.35 | 20 | |
| Ethylbenzene | 34.0 | 2.0 | ug/l | 25.0 | ND | 136 | 60-150 | 5.13 | 20 | |
| Hexachlorobutadiene | 26.0 | 5.0 | ug/l | 25.0 | ND | 104 | 55-150 | 34.2 | 20 | R2 |
| 2-Hexanone | 32.6 | 10 | ug/l | 25.0 | ND | 130 | 35-165 | 0.612 | 20 | |
| Iodomethane | 15.8 | 2.0 | ug/l | 25.0 | ND | 63.2 | 65-160 | 16.8 | 20 | M |
| Isopropylbenzene | 32.1 | 2.0 | ug/l | 25.0 | ND | 128 | 65-145 | 6.43 | 20 | |
| p-Isopropyltoluene | 23.1 | 2.0 | ug/l | 25.0 | ND | 92.4 | 60-145 | 2.14 | 20 | |
| Methylene chloride | 23.8 | 5.0 | ug/l | 25.0 | ND | 95.2 | 65-160 | 1.69 | 20 | |
| 4-Methyl-2-pentanone (MIBK) | 26.5 | 10 | ug/l | 25.0 | ND | 106 | 40-165 | 1.13 | 20 | |
| Methyl-tert-butyl Ether (MTBE) | 17.7 | 5.0 | ug/l | 25.0 | ND | 70.8 | 60-160 | 4.42 | 20 | |
| Naphthalene | 28.9 | 5.0 | ug/l | 25.0 | ND | 116 | 50-150 | 2.81 | 20 | |
| n-Propylbenzene | 23.1 | 2.0 | ug/l | 25.0 | ND | 92.4 | 70-145 | 2.99 | 20 | |
| Styrene | 6.39 | 2.0 | ug/l | 25.0 | ND | 25.6 | 65-150 | 121 | 20 | M,R2 |
| 1,1,1,2-Tetrachloroethane | 29.9 | 5.0 | ug/l | 25.0 | ND | 120 | 60-155 | 4.10 | 20 | |
| 1,1,2,2-Tetrachloroethane | 28.3 | 2.0 | ug/l | 25.0 | ND | 113 | 65-150 | 7.81 | 20 | |
| Tetrachloroethene | 33.8 | 2.0 | ug/l | 25.0 | ND | 135 | 70-130 | 3.92 | 20 | M |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: S Mesa 70211-0-150-02-2.2

Report Number: PJL0048

Sampled: 12/05/00
Received: 12/05/00

## METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L1507 Extracted: 12/15/00** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 12/15/00 (P0L1507-MSD1)** | | | | | **Source: PJL0071-03** | | | | | |
| **Toluene** | **31.4** | 2.0 | ug/l | 25.0 | ND | 126 | 70-125 | 2.91 | 20 | M |
| **1,2,3-Trichlorobenzene** | **28.7** | 5.0 | ug/l | 25.0 | ND | 115 | 55-150 | 13.0 | 20 | |
| **1,2,4-Trichlorobenzene** | **26.9** | 5.0 | ug/l | 25.0 | ND | 108 | 60-145 | 6.92 | 20 | |
| **1,1,1-Trichloroethane** | **18.2** | 2.0 | ug/l | 25.0 | ND | 72.8 | 70-130 | 3.24 | 20 | |
| **1,1,2-Trichloroethane** | **33.0** | 2.0 | ug/l | 25.0 | ND | 132 | 70-130 | 4.33 | 20 | M |
| **Trichloroethene** | **25.6** | 2.0 | ug/l | 25.0 | ND | 102 | 75-120 | 0.778 | 20 | |
| **Trichlorofluoromethane** | **18.6** | 5.0 | ug/l | 25.0 | ND | 74.4 | 10-200 | 3.17 | 20 | |
| **1,2,3-Trichloropropane** | **24.9** | 10 | ug/l | 25.0 | ND | 99.6 | 55-150 | 3.94 | 20 | |
| **1,2,4-Trimethylbenzene** | **21.3** | 2.0 | ug/l | 25.0 | ND | 85.2 | 65-150 | 9.82 | 20 | |
| **1,3,5-Trimethylbenzene** | **22.2** | 2.0 | ug/l | 25.0 | ND | 88.8 | 65-150 | 6.11 | 20 | |
| **Vinyl acetate** | **12.1** | 5.0 | ug/l | 25.0 | ND | 48.4 | 50-160 | 73.6 | 20 | M |
| **Vinyl chloride** | **26.0** | 5.0 | ug/l | 25.0 | ND | 104 | 25-200 | 0.385 | 20 | |
| **Xylenes, Total** | **101** | 10 | ug/l | 75.0 | ND | 135 | 65-145 | 2.20 | 20 | |
| *Surrogate: Dibromofluoromethane* | *21.6* | | *ug/l* | *25.0* | | *86.4* | *70-160* | | | |
| *Surrogate: Toluene-d8* | *32.0* | | *ug/l* | *25.0* | | *128* | *75-140* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *24.0* | | *ug/l* | *25.0* | | *96.0* | *75-135* | | | |

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: S Mesa 70211-0-150-02-2.2
Report Number: PJL0048

Sampled: 12/05/00
Received: 12/05/00

## METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L0605 Extracted: 12/06/00** | | | | | | | | | | |
| **Blank Analyzed: 12/07/00 (P0L0605-BLK1)** | | | | | | | | | | |
| Antimony | ND | 0.0040 | mg/l | | | | | | | |
| Arsenic | ND | 0.0030 | mg/l | | | | | | | |
| Beryllium | ND | 0.00050 | mg/l | | | | | | | |
| Cadmium | ND | 0.00050 | mg/l | | | | | | | |
| Chromium | ND | 0.0040 | mg/l | | | | | | | |
| Selenium | ND | 0.0040 | mg/l | | | | | | | |
| **LCS Analyzed: 12/07/00 (P0L0605-BS1)** | | | | | | | | | | |
| **Antimony** | **0.0370** | 0.0080 | mg/l | 0.0400 | | 92.5 | 85-115 | | | |
| **Arsenic** | **0.0378** | 0.0060 | mg/l | 0.0400 | | 94.5 | 85-115 | | | |
| **Beryllium** | **0.00207** | 0.0010 | mg/l | 0.00200 | | 103 | 85-115 | | | |
| **Cadmium** | **0.00213** | 0.0010 | mg/l | 0.00200 | | 106 | 85-115 | | | |
| **Chromium** | **0.0414** | 0.0080 | mg/l | 0.0400 | | 104 | 85-115 | | | |
| **Selenium** | **0.0389** | 0.0080 | mg/l | 0.0400 | | 97.2 | 85-115 | | | |
| **Matrix Spike Analyzed: 12/07/00 (P0L0605-MS1)** | | | | | **Source: PJK0446-01** | | | | | |
| **Antimony** | **0.0387** | 0.0080 | mg/l | 0.0400 | ND | 96.8 | 70-130 | | | |
| **Arsenic** | **0.0335** | 0.0060 | mg/l | 0.0400 | ND | 83.8 | 70-130 | | | |
| **Beryllium** | **0.00201** | 0.0010 | mg/l | 0.00200 | ND | 100 | 70-130 | | | |
| **Cadmium** | **0.00164** | 0.0010 | mg/l | 0.00200 | ND | 82.0 | 70-130 | | | |
| **Chromium** | **0.0469** | 0.0080 | mg/l | 0.0400 | ND | 117 | 70-130 | | | |
| **Selenium** | **0.0322** | 0.0080 | mg/l | 0.0400 | ND | 80.5 | 70-130 | | | |
| **Matrix Spike Dup Analyzed: 12/07/00 (P0L0605-MSD1)** | | | | | **Source: PJK0446-01** | | | | | |
| **Antimony** | **0.0406** | 0.0080 | mg/l | 0.0400 | ND | 102 | 70-130 | 4.79 | 20 | |
| **Arsenic** | **0.0330** | 0.0060 | mg/l | 0.0400 | ND | 82.5 | 70-130 | 1.50 | 20 | |
| **Beryllium** | **0.00209** | 0.0010 | mg/l | 0.00200 | ND | 104 | 70-130 | 3.90 | 20 | |
| **Cadmium** | **0.00179** | 0.0010 | mg/l | 0.00200 | ND | 89.5 | 70-130 | 8.75 | 20 | |
| **Chromium** | **0.0478** | 0.0080 | mg/l | 0.0400 | ND | 120 | 70-130 | 1.90 | 20 | |
| **Selenium** | **0.0322** | 0.0080 | mg/l | 0.0400 | ND | 80.5 | 70-130 | 0 | 20 | |

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Attention: Jim Clarke

Client Project ID: S Mesa 70211-0-150-02-2.2
Report Number: PJL0048

Sampled: 12/05/00
Received: 12/05/00

## METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L0712 Extracted: 12/07/00** | | | | | | | | | | |
| **Blank Analyzed: 12/11/00 (P0L0712-BLK1)** | | | | | | | | | | |
| Aluminum | ND | 0.50 | mg/l | | | | | | | |
| Barium | ND | 0.010 | mg/l | | | | | | | |
| Calcium | ND | 2.0 | mg/l | | | | | | | |
| Cobalt | ND | 0.050 | mg/l | | | | | | | |
| Copper | ND | 0.020 | mg/l | | | | | | | |
| Iron | ND | 0.10 | mg/l | | | | | | | |
| Lead | ND | 0.050 | mg/l | | | | | | | |
| Magnesium | ND | 0.50 | mg/l | | | | | | | |
| Manganese | ND | 0.020 | mg/l | | | | | | | |
| Nickel | ND | 0.050 | mg/l | | | | | | | |
| Silver | ND | 0.0050 | mg/l | | | | | | | |
| Sodium | ND | 5.0 | mg/l | | | | | | | |
| Strontium | ND | 0.10 | mg/l | | | | | | | |
| Vanadium | ND | 0.050 | mg/l | | | | | | | |
| Zinc | ND | 0.050 | mg/l | | | | | | | |
| **LCS Analyzed: 12/11/00 (P0L0712-BS1)** | | | | | | | | | | |
| **Aluminum** | **1.09** | 0.50 | mg/l | 1.00 | | 109 | 85-115 | | | |
| **Barium** | **0.998** | 0.010 | mg/l | 1.00 | | 99.8 | 85-115 | | | |
| **Calcium** | **9.85** | 2.0 | mg/l | 10.0 | | 98.5 | 85-115 | | | |
| **Cobalt** | **0.980** | 0.050 | mg/l | 1.00 | | 98.0 | 85-115 | | | |
| **Copper** | **0.969** | 0.020 | mg/l | 1.00 | | 96.9 | 85-115 | | | |
| **Iron** | **10.1** | 0.10 | mg/l | 10.0 | | 101 | 85-115 | | | |
| **Lead** | **0.999** | 0.050 | mg/l | 1.00 | | 99.9 | 85-115 | | | |
| **Magnesium** | **9.74** | 0.50 | mg/l | 10.0 | | 97.4 | 85-115 | | | |
| **Manganese** | **0.988** | 0.020 | mg/l | 1.00 | | 98.8 | 85-115 | | | |
| **Nickel** | **0.971** | 0.050 | mg/l | 1.00 | | 97.1 | 85-115 | | | |
| **Silver** | **0.0504** | 0.0050 | mg/l | 0.0500 | | 101 | 85-115 | | | |
| **Sodium** | **47.8** | 5.0 | mg/l | 50.0 | | 95.6 | 85-115 | | | |
| Strontium | ND | 0.10 | mg/l | 0.100 | | 98.0 | 85-115 | | | |
| **Vanadium** | **1.01** | 0.050 | mg/l | 1.00 | | 101 | 85-115 | | | |
| **Zinc** | **0.993** | 0.050 | mg/l | 1.00 | | 99.3 | 85-115 | | | |

Julie M. Slocum
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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: S Mesa 70211-0-150-02-2.2
Report Number: PJL0048

Sampled: 12/05/00
Received: 12/05/00

## METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L0712 Extracted: 12/07/00** | | | | | | | | | | |
| **LCS Dup Analyzed: 12/11/00 (P0L0712-BSD1)** | | | | | | | | | | |
| **Aluminum** | **1.06** | 0.50 | mg/l | 1.00 | | 106 | 85-115 | 2.79 | 20 | |
| **Barium** | **0.990** | 0.010 | mg/l | 1.00 | | 99.0 | 85-115 | 0.805 | 20 | |
| **Calcium** | **9.78** | 2.0 | mg/l | 10.0 | | 97.8 | 85-115 | 0.713 | 20 | |
| **Cobalt** | **0.971** | 0.050 | mg/l | 1.00 | | 97.1 | 85-115 | 0.923 | 20 | |
| **Copper** | **0.962** | 0.020 | mg/l | 1.00 | | 96.2 | 85-115 | 0.725 | 20 | |
| **Iron** | **10.1** | 0.10 | mg/l | 10.0 | | 101 | 85-115 | 0 | 20 | |
| **Lead** | **0.990** | 0.050 | mg/l | 1.00 | | 99.0 | 85-115 | 0.905 | 20 | |
| **Magnesium** | **9.67** | 0.50 | mg/l | 10.0 | | 96.7 | 85-115 | 0.721 | 20 | |
| **Manganese** | **0.982** | 0.020 | mg/l | 1.00 | | 98.2 | 85-115 | 0.609 | 20 | |
| **Nickel** | **0.966** | 0.050 | mg/l | 1.00 | | 96.6 | 85-115 | 0.516 | 20 | |
| **Silver** | **0.0501** | 0.0050 | mg/l | 0.0500 | | 100 | 85-115 | 0.597 | 20 | |
| **Sodium** | **47.2** | 5.0 | mg/l | 50.0 | | 94.4 | 85-115 | 1.26 | 20 | |
| Strontium | ND | 0.10 | mg/l | 0.100 | | 97.0 | 85-115 | 1.03 | 20 | |
| **Vanadium** | **1.00** | 0.050 | mg/l | 1.00 | | 100 | 85-115 | 0.995 | 20 | |
| **Zinc** | **0.990** | 0.050 | mg/l | 1.00 | | 99.0 | 85-115 | 0.303 | 20 | |
| **Matrix Spike Analyzed: 12/11/00 (P0L0712-MS1)** | | | | | **Source: PJL0048-01** | | | | | |
| **Aluminum** | **1.28** | 0.50 | mg/l | 1.00 | ND | 113 | 70-130 | | | |
| **Barium** | **1.06** | 0.010 | mg/l | 1.00 | 0.071 | 98.9 | 70-130 | | | |
| **Calcium** | **135** | 2.0 | mg/l | 10.0 | 120 | 150 | 70-130 | | | M |
| **Cobalt** | **0.971** | 0.050 | mg/l | 1.00 | ND | 97.1 | 70-130 | | | |
| **Copper** | **1.01** | 0.020 | mg/l | 1.00 | ND | 101 | 70-130 | | | |
| **Iron** | **10.5** | 0.10 | mg/l | 10.0 | 0.39 | 101 | 70-130 | | | |
| **Lead** | **0.987** | 0.050 | mg/l | 1.00 | ND | 98.7 | 70-130 | | | |
| **Magnesium** | **54.3** | 0.50 | mg/l | 10.0 | 43 | 113 | 70-130 | | | |
| **Manganese** | **0.995** | 0.020 | mg/l | 1.00 | ND | 99.1 | 70-130 | | | |
| **Nickel** | **0.952** | 0.050 | mg/l | 1.00 | ND | 93.7 | 70-130 | | | |
| **Silver** | **0.0510** | 0.0050 | mg/l | 0.0500 | ND | 102 | 70-130 | | | |
| **Sodium** | **415** | 5.0 | mg/l | 50.0 | 340 | 150 | 85-115 | | | M-HA |
| **Strontium** | **1.29** | 0.50 | mg/l | 0.100 | 1.2 | 90.0 | 70-130 | | | |
| **Vanadium** | **1.04** | 0.050 | mg/l | 1.00 | ND | 103 | 70-130 | | | |
| **Zinc** | **0.998** | 0.050 | mg/l | 1.00 | ND | 99.8 | 70-130 | | | |

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Attention: Jim Clarke

Client Project ID: S Mesa 70211-0-150-02-2.2
Report Number: PJL0048

Sampled: 12/05/00
Received: 12/05/00

## METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L0712 Extracted: 12/07/00** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 12/11/00 (P0L0712-MSD1)** | | | | | **Source: PJL0048-01** | | | | | |
| **Aluminum** | **1.29** | 0.50 | mg/l | 1.00 | ND | 114 | 70-130 | 0.778 | 20 | |
| **Barium** | **1.04** | 0.010 | mg/l | 1.00 | 0.071 | 96.9 | 70-130 | 1.90 | 20 | |
| **Calcium** | **138** | 2.0 | mg/l | 10.0 | 120 | 180 | 70-130 | 2.20 | 20 | M |
| **Cobalt** | **0.980** | 0.050 | mg/l | 1.00 | ND | 98.0 | 70-130 | 0.923 | 20 | |
| **Copper** | **1.03** | 0.020 | mg/l | 1.00 | ND | 103 | 70-130 | 1.96 | 20 | |
| **Iron** | **10.7** | 0.10 | mg/l | 10.0 | 0.39 | 103 | 70-130 | 1.89 | 20 | |
| **Lead** | **1.00** | 0.050 | mg/l | 1.00 | ND | 100 | 70-130 | 1.31 | 20 | |
| **Magnesium** | **55.4** | 0.50 | mg/l | 10.0 | 43 | 124 | 70-130 | 2.01 | 20 | |
| **Manganese** | **1.01** | 0.020 | mg/l | 1.00 | ND | 101 | 70-130 | 1.50 | 20 | |
| **Nickel** | **0.944** | 0.050 | mg/l | 1.00 | ND | 92.9 | 70-130 | 0.844 | 20 | |
| **Silver** | **0.0524** | 0.0050 | mg/l | 0.0500 | ND | 105 | 70-130 | 2.71 | 20 | |
| **Sodium** | **428** | 5.0 | mg/l | 50.0 | 340 | 176 | 85-115 | 3.08 | 20 | M-HA |
| **Strontium** | **1.29** | 0.50 | mg/l | 0.100 | 1.2 | 90.0 | 70-130 | 0 | 20 | |
| **Vanadium** | **1.05** | 0.050 | mg/l | 1.00 | ND | 104 | 70-130 | 0.957 | 20 | |
| **Zinc** | **1.02** | 0.050 | mg/l | 1.00 | ND | 102 | 70-130 | 2.18 | 20 | |
| **Batch: P0L1209 Extracted: 12/12/00** | | | | | | | | | | |
| **Blank Analyzed: 12/15/00 (P0L1209-BLK1)** | | | | | | | | | | |
| Lithium | ND | 1.0 | mg/l | | | | | | | |
| **LCS Analyzed: 12/15/00 (P0L1209-BS1)** | | | | | | | | | | |
| **Lithium** | **6.20** | 1.0 | mg/l | 5.00 | | 124 | 85-115 | | | L |
| **LCS Dup Analyzed: 12/15/00 (P0L1209-BSD1)** | | | | | | | | | | |
| **Lithium** | **5.90** | 1.0 | mg/l | 5.00 | | 118 | 85-115 | 4.96 | 20 | L |

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: S Mesa 70211-0-150-02-2.2
Report Number: PJL0048

Sampled: 12/05/00
Received: 12/05/00

## METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P0L1209 Extracted: 12/12/00** | | | | | | | | | | |
| **Matrix Spike Analyzed: 12/15/00 (P0L1209-MS1)** | | | | | **Source: PJL0090-01** | | | | | |
| **Lithium** | **6.90** | 1.0 | mg/l | 5.00 | ND | 132 | 85-115 | | | M |
| **Matrix Spike Dup Analyzed: 12/15/00 (P0L1209-MSD1)** | | | | | **Source: PJL0090-01** | | | | | |
| **Lithium** | **7.00** | 1.0 | mg/l | 5.00 | ND | 134 | 85-115 | 1.44 | 20 | M |

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Project Manager



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| | | |
|---|---|---|
| Law Engineering<br>4634 S. 36th Place<br>Phoenix, AZ 85040<br>Attention: Jim Clarke | Client Project ID: S Mesa 70211-0-150-02-2.2<br>Report Number: PJL0048 | Sampled: 12/05/00<br>Received: 12/05/00 |

METHOD BLANK/QC DATA

## DATA QUALIFIERS AND DEFINITIONS

| | |
|---|---|
| **C** | Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted. |
| **L** | Laboratory Control Sample recovery was above the method control limits. Analyte not detected, data not impacted. |
| **M** | The MS and/or MSD were outside of the acceptance limits due to sample matrix interference. See Blank Spike (LCS). |
| **M-HA** | Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information See LCS. |
| **R2** | The RPD exceeded the method control limit. See Corrective Action Report. |
| **ND** | Analyte NOT DETECTED at or above the reporting limit |
| **NR** | Not reported. |
| **RPD** | Relative Percent Difference |

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# CORRECTIVE ACTION REPORT

| | | | |
|---|---|---|---|
| Department: | GC/MS | Method: | 8260B |
| Date: | 12/15/2000 | Matrix: | Water |
| Batch: | P0L1507 | | |
| Samples: | PJL0044-11, PJL0044-13 – PJL0044-15, PJL0048-01 – PJL0048-03 & PJL0071-01 – PJL0071-09 | | |

Identification and Definition of Problem:

The Relative Percent Differences (RPD) between the Laboratory Control Sample (LCS) and the Laboratory Control Sample Duplicate (LCSD) were outside of the 20% acceptance criteria for 1,2,3-Trichlorobenzene (24.4%), 1,2-Dibromo-3-chloropropane (23.9%), Bromomethane (20.9%), and Acetone (20.2%). The RPD was also outside of acceptance limits between the Matrix Spike (MS) and Matrix Spike Duplicate (MSD) for 4-Chlorotoluene (23.9%), Hexachlorobutadiene (34.2%), Vinyl acetate (73.6%) and Styrene (121%).

Determination of the Cause of the Problem:

The cause of the high RPDs could not be determined.

Corrective Action:

The LCS and LCSD recovered within acceptance limits for all target analytes. Those analytes that had unacceptable RPDs between the LCS and LCSD had acceptable RPDs between the MS and MSD. Also, those analytes that had unacceptable RPDs between the MS and MSD had acceptable RPDs between the LCS and LCSD. The data should not be significantly impacted.

Elizabeth C. Wueschner: Elizabeth C. Wueschner Date: 12/21/2000
Quality Assurance Manager

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# CHAIN OF CUSTODY FORM



Client Name/Address:
LAW Engineering
4634 S 36th Place
Phoenix, AZ 85040

Project/PO Number:
S Mesa
70211-0-0150-02-Z.2

Project Manager:
Jim Clarke

Phone Number:
602-437-0250

Sampler:
Ron Bodnar

Fax Number:
602-431-3675

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date | Sampling Time | Preservatives | Analysis Required: 8260 | Analysis Required: Metals (See fax sheet) | Special Instructions |
|---|---|---|---|---|---|---|---|---|---|
| MW-5S | $H_2O$ | 2 Voa 1 500ml | 2 1 | 12/5/00 | 3:35 | HCl Nitric | X | X | PJL0048-01 |
| MW-6D | $H_2O$ | 2 Voa 1 500ml | 2 1 | 12/5/00 | 12:10 | HCl Nitric | X | X | -02 |
| Trip Blank | | | | | | | X | | -03 |

Relinquished By: Date /Time: 12/6/00 5:10 pm

Relinquished By: Date /Time:

Relinquished By: Date /Time:

Received by: Date /Time:

Received by: Date /Time:

Received in Lab by: Date /Time: 12/05/00 1710

Turnaround Time: (Check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal X

Sample Integrity: (Check)
Intact X on ice X

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-015D-2-2.2
Report Number: PKC0135

Sampled: 03/06/01-03/07/01
Received: 03/07/01
Issued: 3/28/01

## CASE NARRATIVE

| LABORATORY NUMBER | SAMPLE DESCRIPTION | SAMPLE MATRIX |
|---|---|---|
| PKC0135-01 | MW-1S | Water |
| PKC0135-02 | MW-1D | Water |
| PKC0135-03 | MW-2D | Water |
| PKC0135-04 | MW-3S | Water |
| PKC0135-05 | MW-4S | Water |
| PKC0135-06 | MW-5S | Water |
| PKC0135-07 | MW-5D | Water |
| PKC0135-08 | MW-6D | Water |
| PKC0135-09 | MW-7D | Water |
| PKC0135-10 | MW-AM-8S | Water |
| PKC0135-11 | MW-10D | Water |
| PKC0135-12 | TRIP BLANK | Water |

SAMPLE RECEIPT: Samples were received intact, on ice, and with chain of custody documentation.

HOLDING TIMES: Holding times were met.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

OBSERVATIONS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

QA/QC CRITERIA: For the analyte Iodomethane in the 8260 analysis, the Laboratory Control Sample recovery was below method control limits and flagged L4. All other analyses met method criteria.

EXPLANATION OF DATA QUALIFIERS: No further explanation of data qualifiers needed.

**DEL MAR ANALYTICAL, PHOENIX (AZ0426)**

Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-015D-2-2.2
Report Number: PKC0135

Sampled: 03/06/01-03/07/01
Received: 03/07/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKC0135-01 (MW-1S - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P1C1604 | 20 | ND | 1 | 3/16/01 | 3/16/01 | |
| Benzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromobenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromochloromethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromodichloromethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromoform | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromomethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 2-Butanone (MEK) | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| n-Butylbenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| sec-Butylbenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| tert-Butylbenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Carbon Disulfide | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Carbon tetrachloride | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Chlorobenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Chloroethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Chloroform | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Chloromethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 2-Chlorotoluene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 4-Chlorotoluene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Dibromochloromethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Dibromomethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dichlorobenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,3-Dichlorobenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,4-Dichlorobenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Dichlorodifluoromethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1-Dichloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dichloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1-Dichloroethene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| cis-1,2-Dichloroethene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| trans-1,2-Dichloroethene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dichloropropane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,3-Dichloropropane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 2,2-Dichloropropane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1-Dichloropropene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| cis-1,3-Dichloropropene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| trans-1,3-Dichloropropene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Ethylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Hexachlorobutadiene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 2-Hexanone | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| Iodomethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Isopropylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |

Beth Price For Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-015D-2-2.2
Report Number: PKC0135

Sampled: 03/06/01-03/07/01
Received: 03/07/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKC0135-01 (MW-1S - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Methylene chloride | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Naphthalene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| n-Propylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Styrene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Tetrachloroethene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Toluene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1,2-Trichloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Trichloroethene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Trichlorofluoromethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Vinyl acetate | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Vinyl chloride | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Xylenes, Total | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *106 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *112 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *102 %* | | | | |

Beth Price For Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-015D-2-2.2
Report Number: PKC0135

Sampled: 03/06/01-03/07/01
Received: 03/07/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKC0135-02 (MW-1D - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P1C1604 | 20 | ND | 1 | 3/16/01 | 3/16/01 | |
| Benzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromobenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromochloromethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromodichloromethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromoform | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromomethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 2-Butanone (MEK) | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| n-Butylbenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| sec-Butylbenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| tert-Butylbenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Carbon Disulfide | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Carbon tetrachloride | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Chlorobenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Chloroethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Chloroform | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Chloromethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 2-Chlorotoluene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 4-Chlorotoluene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Dibromochloromethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Dibromomethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dichlorobenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,3-Dichlorobenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,4-Dichlorobenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Dichlorodifluoromethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1-Dichloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dichloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1-Dichloroethene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| cis-1,2-Dichloroethene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| trans-1,2-Dichloroethene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dichloropropane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,3-Dichloropropane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 2,2-Dichloropropane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1-Dichloropropene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| cis-1,3-Dichloropropene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| trans-1,3-Dichloropropene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Ethylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Hexachlorobutadiene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 2-Hexanone | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| Iodomethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Isopropylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |

Beth Price For Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-015D-2-2.2
Report Number: PKC0135

Sampled: 03/06/01-03/07/01
Received: 03/07/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKC0135-02 (MW-1D - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Methylene chloride | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Naphthalene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| n-Propylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Styrene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Tetrachloroethene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Toluene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1,2-Trichloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Trichloroethene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Trichlorofluoromethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Vinyl acetate | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Vinyl chloride | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Xylenes, Total | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *111 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *118 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *102 %* | | | | |

Beth Price For Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-015D-2-2.2
Report Number: PKC0135

Sampled: 03/06/01-03/07/01
Received: 03/07/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKC0135-03 (MW-2D - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P1C1604 | 20 | ND | 1 | 3/16/01 | 3/16/01 | |
| Benzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromobenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromochloromethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromodichloromethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromoform | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromomethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 2-Butanone (MEK) | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| n-Butylbenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| sec-Butylbenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| tert-Butylbenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Carbon Disulfide | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Carbon tetrachloride | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Chlorobenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Chloroethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Chloroform | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Chloromethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 2-Chlorotoluene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 4-Chlorotoluene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Dibromochloromethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Dibromomethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dichlorobenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,3-Dichlorobenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,4-Dichlorobenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Dichlorodifluoromethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1-Dichloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dichloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1-Dichloroethene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| cis-1,2-Dichloroethene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| trans-1,2-Dichloroethene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dichloropropane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,3-Dichloropropane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 2,2-Dichloropropane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1-Dichloropropene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| cis-1,3-Dichloropropene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| trans-1,3-Dichloropropene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Ethylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Hexachlorobutadiene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 2-Hexanone | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| Iodomethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Isopropylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |

Beth Price For Julie M. Slocum
Project Manager



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Law Engineering
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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-015D-2-2.2

Report Number: PKC0135

Sampled: 03/06/01-03/07/01
Received: 03/07/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKC0135-03 (MW-2D - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Methylene chloride | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Naphthalene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| n-Propylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Styrene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Tetrachloroethene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Toluene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1,2-Trichloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Trichloroethene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Trichlorofluoromethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Vinyl acetate | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Vinyl chloride | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Xylenes, Total | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *110 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *115 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *102 %* | | | | |

Beth Price For Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-015D-2-2.2
Report Number: PKC0135

Sampled: 03/06/01-03/07/01
Received: 03/07/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKC0135-04 (MW-3S - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P1C1604 | 20 | ND | 1 | 3/16/01 | 3/16/01 | |
| Benzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromobenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromochloromethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromodichloromethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromoform | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromomethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 2-Butanone (MEK) | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| n-Butylbenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| sec-Butylbenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| tert-Butylbenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Carbon Disulfide | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Carbon tetrachloride | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Chlorobenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Chloroethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Chloroform | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Chloromethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 2-Chlorotoluene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 4-Chlorotoluene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Dibromochloromethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Dibromomethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dichlorobenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,3-Dichlorobenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,4-Dichlorobenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Dichlorodifluoromethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1-Dichloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dichloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1-Dichloroethene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| cis-1,2-Dichloroethene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| trans-1,2-Dichloroethene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dichloropropane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,3-Dichloropropane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 2,2-Dichloropropane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1-Dichloropropene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| cis-1,3-Dichloropropene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| trans-1,3-Dichloropropene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Ethylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Hexachlorobutadiene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 2-Hexanone | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| Iodomethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Isopropylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |

Beth Price For Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-015D-2-2.2

Report Number: PKC0135

Sampled: 03/06/01-03/07/01
Received: 03/07/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKC0135-04 (MW-3S - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Methylene chloride | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Naphthalene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| n-Propylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Styrene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Tetrachloroethene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Toluene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1,2-Trichloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Trichloroethene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Trichlorofluoromethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Vinyl acetate | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Vinyl chloride | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Xylenes, Total | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *107 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *115 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *101 %* | | | | |

Beth Price For Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-015D-2-2.2
Report Number: PKC0135

Sampled: 03/06/01-03/07/01
Received: 03/07/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKC0135-05 (MW-4S - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P1C1604 | 20 | ND | 1 | 3/16/01 | 3/16/01 | |
| Benzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromobenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromochloromethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromodichloromethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromoform | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromomethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 2-Butanone (MEK) | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| n-Butylbenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| sec-Butylbenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| tert-Butylbenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Carbon Disulfide | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Carbon tetrachloride | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Chlorobenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Chloroethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Chloroform | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Chloromethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 2-Chlorotoluene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 4-Chlorotoluene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Dibromochloromethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Dibromomethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dichlorobenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,3-Dichlorobenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,4-Dichlorobenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Dichlorodifluoromethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1-Dichloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dichloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1-Dichloroethene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| cis-1,2-Dichloroethene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| trans-1,2-Dichloroethene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dichloropropane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,3-Dichloropropane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 2,2-Dichloropropane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1-Dichloropropene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| cis-1,3-Dichloropropene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| trans-1,3-Dichloropropene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Ethylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Hexachlorobutadiene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 2-Hexanone | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| Iodomethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Isopropylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |

Beth Price For Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-015D-2-2.2
Report Number: PKC0135

Sampled: 03/06/01-03/07/01
Received: 03/07/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKC0135-05 (MW-4S - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Methylene chloride | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Naphthalene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| n-Propylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Styrene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Tetrachloroethene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Toluene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1,2-Trichloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Trichloroethene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Trichlorofluoromethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Vinyl acetate | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Vinyl chloride | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Xylenes, Total | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *108 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *111 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *100 %* | | | | |

Beth Price For Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-015D-2-2.2
Report Number: PKC0135

Sampled: 03/06/01-03/07/01
Received: 03/07/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKC0135-06 (MW-5S - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P1C1604 | 20 | ND | 1 | 3/16/01 | 3/16/01 | |
| Benzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromobenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromochloromethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromodichloromethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromoform | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromomethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 2-Butanone (MEK) | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| n-Butylbenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| sec-Butylbenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| tert-Butylbenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Carbon Disulfide | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Carbon tetrachloride | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Chlorobenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Chloroethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Chloroform | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Chloromethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 2-Chlorotoluene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 4-Chlorotoluene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Dibromochloromethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Dibromomethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dichlorobenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,3-Dichlorobenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,4-Dichlorobenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Dichlorodifluoromethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1-Dichloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dichloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1-Dichloroethene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| cis-1,2-Dichloroethene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| trans-1,2-Dichloroethene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dichloropropane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,3-Dichloropropane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 2,2-Dichloropropane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1-Dichloropropene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| cis-1,3-Dichloropropene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| trans-1,3-Dichloropropene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Ethylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Hexachlorobutadiene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 2-Hexanone | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| Iodomethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Isopropylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |

Beth Price For Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-015D-2-2.2
Report Number: PKC0135

Sampled: 03/06/01-03/07/01
Received: 03/07/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKC0135-06 (MW-5S - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Methylene chloride | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Naphthalene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| n-Propylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Styrene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Tetrachloroethene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Toluene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1,2-Trichloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Trichloroethene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Trichlorofluoromethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Vinyl acetate | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Vinyl chloride | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Xylenes, Total | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *104 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *116 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *99.6 %* | | | | |

Beth Price For Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-015D-2-2.2
Report Number: PKC0135

Sampled: 03/06/01-03/07/01
Received: 03/07/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKC0135-07 (MW-5D - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P1C1604 | 20 | ND | 1 | 3/16/01 | 3/16/01 | |
| Benzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromobenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromochloromethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromodichloromethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromoform | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromomethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 2-Butanone (MEK) | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| n-Butylbenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| sec-Butylbenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| tert-Butylbenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Carbon Disulfide | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Carbon tetrachloride | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Chlorobenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Chloroethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Chloroform | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Chloromethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 2-Chlorotoluene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 4-Chlorotoluene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Dibromochloromethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Dibromomethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dichlorobenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,3-Dichlorobenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,4-Dichlorobenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Dichlorodifluoromethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1-Dichloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dichloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1-Dichloroethene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| cis-1,2-Dichloroethene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| trans-1,2-Dichloroethene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dichloropropane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,3-Dichloropropane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 2,2-Dichloropropane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1-Dichloropropene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| cis-1,3-Dichloropropene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| trans-1,3-Dichloropropene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Ethylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Hexachlorobutadiene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 2-Hexanone | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| Iodomethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Isopropylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |

Beth Price For Julie M. Slocum
Project Manager



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Law Engineering
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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-015D-2-2.2
Report Number: PKC0135

Sampled: 03/06/01-03/07/01
Received: 03/07/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKC0135-07 (MW-5D - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Methylene chloride | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Naphthalene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| n-Propylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Styrene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| **Tetrachloroethene** | EPA 8260B | P1C1604 | 2.0 | **6.4** | 1 | 3/16/01 | 3/16/01 | |
| Toluene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1,2-Trichloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Trichloroethene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Trichlorofluoromethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Vinyl acetate | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Vinyl chloride | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Xylenes, Total | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *105 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *111 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *98.8 %* | | | | |

Beth Price For Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-015D-2-2.2
Report Number: PKC0135

Sampled: 03/06/01-03/07/01
Received: 03/07/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKC0135-08 (MW-6D - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P1C1604 | 20 | ND | 1 | 3/16/01 | 3/16/01 | |
| Benzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromobenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromochloromethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromodichloromethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromoform | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromomethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 2-Butanone (MEK) | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| n-Butylbenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| sec-Butylbenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| tert-Butylbenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Carbon Disulfide | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Carbon tetrachloride | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Chlorobenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Chloroethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Chloroform | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Chloromethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 2-Chlorotoluene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 4-Chlorotoluene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Dibromochloromethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Dibromomethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dichlorobenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,3-Dichlorobenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,4-Dichlorobenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Dichlorodifluoromethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1-Dichloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dichloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1-Dichloroethene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| cis-1,2-Dichloroethene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| trans-1,2-Dichloroethene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dichloropropane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,3-Dichloropropane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 2,2-Dichloropropane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1-Dichloropropene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| cis-1,3-Dichloropropene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| trans-1,3-Dichloropropene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Ethylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Hexachlorobutadiene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 2-Hexanone | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| Iodomethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Isopropylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |

Beth Price For Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-015D-2-2.2
Report Number: PKC0135

Sampled: 03/06/01-03/07/01
Received: 03/07/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKC0135-08 (MW-6D - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Methylene chloride | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Naphthalene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| n-Propylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Styrene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Tetrachloroethene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Toluene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1,2-Trichloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Trichloroethene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Trichlorofluoromethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Vinyl acetate | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Vinyl chloride | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Xylenes, Total | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *104 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *116 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *101 %* | | | | |

Beth Price For Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-015D-2-2.2
Report Number: PKC0135

Sampled: 03/06/01-03/07/01
Received: 03/07/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKC0135-09 (MW-7D - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P1C1604 | 20 | ND | 1 | 3/16/01 | 3/16/01 | |
| Benzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromobenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromochloromethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromodichloromethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromoform | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromomethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 2-Butanone (MEK) | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| n-Butylbenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| sec-Butylbenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| tert-Butylbenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Carbon Disulfide | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Carbon tetrachloride | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Chlorobenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Chloroethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Chloroform | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Chloromethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 2-Chlorotoluene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 4-Chlorotoluene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Dibromochloromethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Dibromomethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dichlorobenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,3-Dichlorobenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,4-Dichlorobenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Dichlorodifluoromethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1-Dichloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dichloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1-Dichloroethene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| **cis-1,2-Dichloroethene** | EPA 8260B | P1C1604 | 2.0 | **2.0** | 1 | 3/16/01 | 3/16/01 | |
| trans-1,2-Dichloroethene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dichloropropane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,3-Dichloropropane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 2,2-Dichloropropane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1-Dichloropropene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| cis-1,3-Dichloropropene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| trans-1,3-Dichloropropene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Ethylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Hexachlorobutadiene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 2-Hexanone | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| Iodomethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Isopropylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |

Beth Price For Julie M. Slocum
Project Manager



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Attention: Jim Clarke

Client Project ID: 70211-0-015D-2-2.2
Report Number: PKC0135

Sampled: 03/06/01-03/07/01
Received: 03/07/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKC0135-09 (MW-7D - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Methylene chloride | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Naphthalene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| n-Propylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Styrene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| **Tetrachloroethene** | EPA 8260B | P1C1604 | 2.0 | **34** | 1 | 3/16/01 | 3/16/01 | |
| Toluene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1,2-Trichloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Trichloroethene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Trichlorofluoromethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Vinyl acetate | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Vinyl chloride | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Xylenes, Total | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *105 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *115 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *102 %* | | | | |

Beth Price For Julie M. Slocum
Project Manager



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Law Engineering
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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-015D-2-2.2
Report Number: PKC0135

Sampled: 03/06/01-03/07/01
Received: 03/07/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKC0135-10 (MW-AM-8S - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P1C1604 | 20 | ND | 1 | 3/16/01 | 3/16/01 | |
| Benzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromobenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromochloromethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromodichloromethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromoform | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromomethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 2-Butanone (MEK) | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| n-Butylbenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| sec-Butylbenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| tert-Butylbenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Carbon Disulfide | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Carbon tetrachloride | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Chlorobenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Chloroethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Chloroform | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Chloromethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 2-Chlorotoluene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 4-Chlorotoluene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Dibromochloromethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Dibromomethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dichlorobenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,3-Dichlorobenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,4-Dichlorobenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Dichlorodifluoromethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1-Dichloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dichloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1-Dichloroethene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| **cis-1,2-Dichloroethene** | EPA 8260B | P1C1604 | 2.0 | **14** | 1 | 3/16/01 | 3/16/01 | |
| trans-1,2-Dichloroethene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dichloropropane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,3-Dichloropropane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 2,2-Dichloropropane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1-Dichloropropene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| cis-1,3-Dichloropropene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| trans-1,3-Dichloropropene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Ethylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Hexachlorobutadiene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 2-Hexanone | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| Iodomethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Isopropylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |

Beth Price For Julie M. Slocum
Project Manager



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Attention: Jim Clarke

Client Project ID: 70211-0-015D-2-2.2

Report Number: PKC0135

Sampled: 03/06/01-03/07/01
Received: 03/07/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKC0135-10 (MW-AM-8S - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Methylene chloride | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Naphthalene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| n-Propylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Styrene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| **Tetrachloroethene** | EPA 8260B | P1C1604 | 2.0 | **110** | 1 | 3/16/01 | 3/16/01 | |
| Toluene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1,2-Trichloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| **Trichloroethene** | EPA 8260B | P1C1604 | 2.0 | **5.8** | 1 | 3/16/01 | 3/16/01 | |
| Trichlorofluoromethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Vinyl acetate | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Vinyl chloride | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Xylenes, Total | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *100 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *116 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *102 %* | | | | |

Beth Price For Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-015D-2-2.2
Report Number: PKC0135

Sampled: 03/06/01-03/07/01
Received: 03/07/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKC0135-11 (MW-10D - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P1C1604 | 20 | ND | 1 | 3/16/01 | 3/16/01 | |
| Benzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromobenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromochloromethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromodichloromethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromoform | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromomethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 2-Butanone (MEK) | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| n-Butylbenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| sec-Butylbenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| tert-Butylbenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Carbon Disulfide | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Carbon tetrachloride | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Chlorobenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Chloroethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Chloroform | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Chloromethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 2-Chlorotoluene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 4-Chlorotoluene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Dibromochloromethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Dibromomethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dichlorobenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,3-Dichlorobenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,4-Dichlorobenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Dichlorodifluoromethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1-Dichloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dichloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1-Dichloroethene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| **cis-1,2-Dichloroethene** | EPA 8260B | P1C1604 | 2.0 | **2.3** | 1 | 3/16/01 | 3/16/01 | |
| trans-1,2-Dichloroethene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dichloropropane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,3-Dichloropropane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 2,2-Dichloropropane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1-Dichloropropene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| cis-1,3-Dichloropropene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| trans-1,3-Dichloropropene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Ethylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Hexachlorobutadiene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 2-Hexanone | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| Iodomethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Isopropylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |

Beth Price For Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-015D-2-2.2
Report Number: PKC0135

Sampled: 03/06/01-03/07/01
Received: 03/07/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKC0135-11 (MW-10D - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Methylene chloride | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Naphthalene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| n-Propylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Styrene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| **Tetrachloroethene** | EPA 8260B | P1C1604 | 2.0 | **35** | 1 | 3/16/01 | 3/16/01 | |
| Toluene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1,2-Trichloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Trichloroethene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Trichlorofluoromethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Vinyl acetate | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Vinyl chloride | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Xylenes, Total | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *102 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *115 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *102 %* | | | | |

Beth Price For Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-015D-2-2.2
Report Number: PKC0135

Sampled: 03/06/01-03/07/01
Received: 03/07/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKC0135-12 (TRIP BLANK - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P1C1604 | 20 | ND | 1 | 3/16/01 | 3/16/01 | |
| Benzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromobenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromochloromethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromodichloromethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromoform | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Bromomethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 2-Butanone (MEK) | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| n-Butylbenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| sec-Butylbenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| tert-Butylbenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Carbon Disulfide | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Carbon tetrachloride | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Chlorobenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Chloroethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Chloroform | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Chloromethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 2-Chlorotoluene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 4-Chlorotoluene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Dibromochloromethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Dibromomethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dichlorobenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,3-Dichlorobenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,4-Dichlorobenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Dichlorodifluoromethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1-Dichloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dichloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1-Dichloroethene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| cis-1,2-Dichloroethene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| trans-1,2-Dichloroethene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2-Dichloropropane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,3-Dichloropropane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 2,2-Dichloropropane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1-Dichloropropene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| cis-1,3-Dichloropropene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| trans-1,3-Dichloropropene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Ethylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Hexachlorobutadiene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 2-Hexanone | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| Iodomethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Isopropylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |

Beth Price For Julie M. Slocum
Project Manager



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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-015D-2-2.2
Report Number: PKC0135

Sampled: 03/06/01-03/07/01
Received: 03/07/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKC0135-12 (TRIP BLANK - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Methylene chloride | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Naphthalene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| n-Propylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Styrene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Tetrachloroethene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Toluene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,1,2-Trichloroethane | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Trichloroethene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Trichlorofluoromethane | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P1C1604 | 2.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Vinyl acetate | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Vinyl chloride | EPA 8260B | P1C1604 | 5.0 | ND | 1 | 3/16/01 | 3/16/01 | |
| Xylenes, Total | EPA 8260B | P1C1604 | 10 | ND | 1 | 3/16/01 | 3/16/01 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *102 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *115 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *97.6 %* | | | | |

**DEL MAR ANALYTICAL, PHOENIX (AZ0426**

Beth Price For Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-015D-2-2.2
Report Number: PKC0135

Sampled: 03/06/01-03/07/01
Received: 03/07/01

## TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKC0135-01 (MW-1S - Water)** | | | | | | | | |
| **Arsenic** | EPA 200.9 | P1C0910 | 0.0030 | **0.0037** | 1 | 3/9/01 | 3/19/01 | |
| **Chromium** | EPA 200.9 | P1C0910 | 0.0040 | **0.012** | 1 | 3/9/01 | 3/16/01 | M2,M5 |
| **Iron** | EPA 200.7 | P1C1405 | 0.10 | **0.15** | 1 | 3/14/01 | 3/14/01 | |
| Manganese | EPA 200.7 | P1C1405 | 0.020 | ND | 1 | 3/14/01 | 3/14/01 | |
| Nickel | EPA 200.7 | P1C1405 | 0.050 | ND | 1 | 3/14/01 | 3/14/01 | |
| **Sample ID: PKC0135-02 (MW-1D - Water)** | | | | | | | | |
| **Arsenic** | EPA 200.9 | P1C0910 | 0.0030 | **0.0031** | 1 | 3/9/01 | 3/20/01 | |
| **Chromium** | EPA 200.9 | P1C0910 | 0.0040 | **0.0089** | 1 | 3/9/01 | 3/16/01 | M5 |
| Iron | EPA 200.7 | P1C1405 | 0.10 | ND | 1 | 3/14/01 | 3/14/01 | |
| Manganese | EPA 200.7 | P1C1405 | 0.020 | ND | 1 | 3/14/01 | 3/14/01 | |
| Nickel | EPA 200.7 | P1C1405 | 0.050 | ND | 1 | 3/14/01 | 3/14/01 | |
| **Sample ID: PKC0135-03 (MW-2D - Water)** | | | | | | | | |
| **Arsenic** | EPA 200.9 | P1C0910 | 0.0030 | **0.0033** | 1 | 3/9/01 | 3/19/01 | |
| **Chromium** | EPA 200.9 | P1C0910 | 0.0040 | **0.035** | 1 | 3/9/01 | 3/16/01 | M5 |
| Iron | EPA 200.7 | P1C1405 | 0.10 | ND | 1 | 3/14/01 | 3/14/01 | |
| Manganese | EPA 200.7 | P1C1405 | 0.020 | ND | 1 | 3/14/01 | 3/14/01 | |
| Nickel | EPA 200.7 | P1C1405 | 0.050 | ND | 1 | 3/14/01 | 3/14/01 | |
| **Sample ID: PKC0135-04 (MW-3S - Water)** | | | | | | | | |
| **Arsenic** | EPA 200.9 | P1C0910 | 0.0030 | **0.0039** | 1 | 3/9/01 | 3/19/01 | |
| **Chromium** | EPA 200.9 | P1C0910 | 0.0040 | **0.019** | 1 | 3/9/01 | 3/16/01 | M5 |
| **Iron** | EPA 200.7 | P1C1405 | 0.10 | **0.35** | 1 | 3/14/01 | 3/14/01 | |
| Manganese | EPA 200.7 | P1C1405 | 0.020 | ND | 1 | 3/14/01 | 3/14/01 | |
| Nickel | EPA 200.7 | P1C1405 | 0.050 | ND | 1 | 3/14/01 | 3/14/01 | |

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-015D-2-2.2

Report Number: PKC0135

Sampled: 03/06/01-03/07/01
Received: 03/07/01

# TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKC0135-05 (MW-4S - Water)** | | | | | | | | |
| **Arsenic** | EPA 200.9 | P1C0910 | 0.0030 | **0.0032** | 1 | 3/9/01 | 3/19/01 | |
| **Chromium** | EPA 200.9 | P1C0910 | 0.0040 | **0.015** | 1 | 3/9/01 | 3/16/01 | M5 |
| **Iron** | EPA 200.7 | P1C1405 | 0.10 | **0.57** | 1 | 3/14/01 | 3/14/01 | |
| Manganese | EPA 200.7 | P1C1405 | 0.020 | ND | 1 | 3/14/01 | 3/14/01 | |
| Nickel | EPA 200.7 | P1C1405 | 0.050 | ND | 1 | 3/14/01 | 3/14/01 | |
| **Sample ID: PKC0135-06 (MW-5S - Water)** | | | | | | | | |
| **Arsenic** | EPA 200.9 | P1C0910 | 0.0030 | **0.0037** | 1 | 3/9/01 | 3/19/01 | |
| **Chromium** | EPA 200.9 | P1C0910 | 0.0040 | **0.011** | 1 | 3/9/01 | 3/16/01 | M5 |
| **Iron** | EPA 200.7 | P1C1405 | 0.10 | **0.20** | 1 | 3/14/01 | 3/14/01 | |
| Manganese | EPA 200.7 | P1C1405 | 0.020 | ND | 1 | 3/14/01 | 3/14/01 | |
| Nickel | EPA 200.7 | P1C1405 | 0.050 | ND | 1 | 3/14/01 | 3/14/01 | |
| **Sample ID: PKC0135-07 (MW-5D - Water)** | | | | | | | | |
| **Arsenic** | EPA 200.9 | P1C0910 | 0.0030 | **0.0044** | 1 | 3/9/01 | 3/19/01 | |
| **Chromium** | EPA 200.9 | P1C0910 | 0.0040 | **0.014** | 1 | 3/9/01 | 3/16/01 | M5 |
| **Iron** | EPA 200.7 | P1C1405 | 0.10 | **0.55** | 1 | 3/14/01 | 3/14/01 | |
| Manganese | EPA 200.7 | P1C1405 | 0.020 | ND | 1 | 3/14/01 | 3/14/01 | |
| Nickel | EPA 200.7 | P1C1405 | 0.050 | ND | 1 | 3/14/01 | 3/14/01 | |
| **Sample ID: PKC0135-08 (MW-6D - Water)** | | | | | | | | |
| **Arsenic** | EPA 200.9 | P1C0910 | 0.0030 | **0.0031** | 1 | 3/9/01 | 3/19/01 | |
| Chromium | EPA 200.9 | P1C0910 | 0.0040 | ND | 1 | 3/9/01 | 3/15/01 | |
| **Iron** | EPA 200.7 | P1C1405 | 0.10 | **0.12** | 1 | 3/14/01 | 3/14/01 | |
| Manganese | EPA 200.7 | P1C1405 | 0.020 | ND | 1 | 3/14/01 | 3/14/01 | |
| Nickel | EPA 200.7 | P1C1405 | 0.050 | ND | 1 | 3/14/01 | 3/14/01 | |

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Attention: Jim Clarke

Client Project ID: 70211-0-015D-2-2.2
Report Number: PKC0135

Sampled: 03/06/01-03/07/01
Received: 03/07/01

## TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKC0135-09 (MW-7D - Water)** | | | | | | | | |
| **Arsenic** | EPA 200.9 | P1C0910 | 0.0030 | **0.0030** | 1 | 3/9/01 | 3/19/01 | |
| **Chromium** | EPA 200.9 | P1C0910 | 0.0040 | **0.0081** | 1 | 3/9/01 | 3/16/01 | M5 |
| **Iron** | EPA 200.7 | P1C1405 | 0.10 | **0.19** | 1 | 3/14/01 | 3/14/01 | |
| Manganese | EPA 200.7 | P1C1405 | 0.020 | ND | 1 | 3/14/01 | 3/14/01 | |
| Nickel | EPA 200.7 | P1C1405 | 0.050 | ND | 1 | 3/14/01 | 3/14/01 | |
| **Sample ID: PKC0135-10 (MW-AM-8S - Water)** | | | | | | | | |
| **Arsenic** | EPA 200.9 | P1C0910 | 0.0030 | **0.030** | 1 | 3/9/01 | 3/19/01 | |
| **Chromium** | EPA 200.9 | P1C0910 | 0.080 | **0.42** | 20 | 3/9/01 | 3/16/01 | M5 |
| **Iron** | EPA 200.7 | P1C1405 | 0.10 | **10** | 1 | 3/14/01 | 3/14/01 | |
| **Manganese** | EPA 200.7 | P1C1405 | 0.020 | **0.50** | 1 | 3/14/01 | 3/14/01 | |
| **Nickel** | EPA 200.7 | P1C1405 | 0.050 | **0.087** | 1 | 3/14/01 | 3/14/01 | |
| **Sample ID: PKC0135-11 (MW-10D - Water)** | | | | | | | | |
| Arsenic | EPA 200.9 | P1C0910 | 0.0030 | ND | 1 | 3/9/01 | 3/19/01 | |
| **Chromium** | EPA 200.9 | P1C0910 | 0.0040 | **0.0093** | 1 | 3/9/01 | 3/16/01 | M5 |
| **Iron** | EPA 200.7 | P1C1405 | 0.10 | **0.19** | 1 | 3/14/01 | 3/14/01 | |
| Manganese | EPA 200.7 | P1C1405 | 0.020 | ND | 1 | 3/14/01 | 3/14/01 | |
| Nickel | EPA 200.7 | P1C1405 | 0.050 | ND | 1 | 3/14/01 | 3/14/01 | |



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Attention: Jim Clarke

Client Project ID: 70211-0-015D-2-2.2
Report Number: PKC0135

Sampled: 03/06/01-03/07/01
Received: 03/07/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1C1604 Extracted: 03/16/01** | | | | | | | | | | |
| **Blank Analyzed: 03/16/01 (P1C1604-BLK1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | |
| Benzene | ND | 2.0 | ug/l | | | | | | | |
| Bromobenzene | ND | 5.0 | ug/l | | | | | | | |
| Bromochloromethane | ND | 5.0 | ug/l | | | | | | | |
| Bromodichloromethane | ND | 2.0 | ug/l | | | | | | | |
| Bromoform | ND | 5.0 | ug/l | | | | | | | |
| Bromomethane | ND | 5.0 | ug/l | | | | | | | |
| 2-Butanone (MEK) | ND | 10 | ug/l | | | | | | | |
| n-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| sec-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| tert-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| Carbon Disulfide | ND | 5.0 | ug/l | | | | | | | |
| Carbon tetrachloride | ND | 5.0 | ug/l | | | | | | | |
| Chlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| Chloroethane | ND | 5.0 | ug/l | | | | | | | |
| Chloroform | ND | 2.0 | ug/l | | | | | | | |
| Chloromethane | ND | 5.0 | ug/l | | | | | | | |
| 2-Chlorotoluene | ND | 5.0 | ug/l | | | | | | | |
| 4-Chlorotoluene | ND | 5.0 | ug/l | | | | | | | |
| Dibromochloromethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/l | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 2.0 | ug/l | | | | | | | |
| Dibromomethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| Dichlorodifluoromethane | ND | 5.0 | ug/l | | | | | | | |
| 1,1-Dichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,1-Dichloroethene | ND | 5.0 | ug/l | | | | | | | |

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Attention: Jim Clarke

Client Project ID: 70211-0-015D-2-2.2
Report Number: PKC0135

Sampled: 03/06/01-03/07/01
Received: 03/07/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1C1604 Extracted: 03/16/01** | | | | | | | | | | |
| **Blank Analyzed: 03/16/01 (P1C1604-BLK1)** | | | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 2.0 | ug/l | | | | | | | |
| trans-1,2-Dichloroethene | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,3-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 2,2-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,1-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| cis-1,3-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| Ethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 5.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 10 | ug/l | | | | | | | |
| Iodomethane | ND | 2.0 | ug/l | | | | | | | |
| Isopropylbenzene | ND | 2.0 | ug/l | | | | | | | |
| p-Isopropyltoluene | ND | 2.0 | ug/l | | | | | | | |
| Methylene chloride | ND | 5.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 5.0 | ug/l | | | | | | | |
| Naphthalene | ND | 5.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Styrene | ND | 2.0 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/l | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 2.0 | ug/l | | | | | | | |
| Toluene | ND | 2.0 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 5.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,1,2-Trichloroethane | ND | 2.0 | ug/l | | | | | | | |
| Trichloroethene | ND | 2.0 | ug/l | | | | | | | |
| Trichlorofluoromethane | ND | 5.0 | ug/l | | | | | | | |

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Sampled: 03/06/01-03/07/01
Received: 03/07/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1C1604 Extracted: 03/16/01** | | | | | | | | | | |
| **Blank Analyzed: 03/16/01 (P1C1604-BLK1)** | | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 10 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Vinyl acetate | ND | 5.0 | ug/l | | | | | | | |
| Vinyl chloride | ND | 5.0 | ug/l | | | | | | | |
| Xylenes, Total | ND | 10 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *26.5* | | *ug/l* | *25.0* | | *106* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *29.8* | | *ug/l* | *25.0* | | *119* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.9* | | *ug/l* | *25.0* | | *104* | *80-120* | | | |
| **LCS Analyzed: 03/16/01 (P1C1604-BS1)** | | | | | | | | | | |
| **Acetone** | **23.3** | 20 | ug/l | 25.0 | | 93.2 | 35-150 | | | |
| **Benzene** | **24.5** | 2.0 | ug/l | 25.0 | | 98.0 | 75-120 | | | |
| **Bromobenzene** | **24.5** | 5.0 | ug/l | 25.0 | | 98.0 | 65-150 | | | |
| **Bromochloromethane** | **27.2** | 5.0 | ug/l | 25.0 | | 109 | 60-155 | | | |
| **Bromodichloromethane** | **24.3** | 2.0 | ug/l | 25.0 | | 97.2 | 60-155 | | | |
| **Bromoform** | **24.9** | 5.0 | ug/l | 25.0 | | 99.6 | 25-160 | | | |
| **Bromomethane** | **23.7** | 5.0 | ug/l | 25.0 | | 94.8 | 55-170 | | | |
| **2-Butanone (MEK)** | **24.6** | 10 | ug/l | 25.0 | | 98.4 | 35-165 | | | |
| **n-Butylbenzene** | **25.6** | 5.0 | ug/l | 25.0 | | 102 | 65-140 | | | |
| **sec-Butylbenzene** | **26.1** | 5.0 | ug/l | 25.0 | | 104 | 60-145 | | | |
| **tert-Butylbenzene** | **26.5** | 5.0 | ug/l | 25.0 | | 106 | 65-145 | | | |
| **Carbon Disulfide** | **20.5** | 5.0 | ug/l | 25.0 | | 82.0 | 65-155 | | | |
| **Carbon tetrachloride** | **23.5** | 5.0 | ug/l | 25.0 | | 94.0 | 65-150 | | | |
| **Chlorobenzene** | **26.0** | 2.0 | ug/l | 25.0 | | 104 | 75-130 | | | |
| **Chloroethane** | **24.9** | 5.0 | ug/l | 25.0 | | 99.6 | 65-165 | | | |
| **Chloroform** | **24.3** | 2.0 | ug/l | 25.0 | | 97.2 | 70-130 | | | |
| **Chloromethane** | **31.1** | 5.0 | ug/l | 25.0 | | 124 | 60-165 | | | |
| **2-Chlorotoluene** | **24.3** | 5.0 | ug/l | 25.0 | | 97.2 | 65-145 | | | |
| **4-Chlorotoluene** | **24.2** | 5.0 | ug/l | 25.0 | | 96.8 | 70-145 | | | |
| **Dibromochloromethane** | **27.3** | 2.0 | ug/l | 25.0 | | 109 | 55-155 | | | |

Beth Price For Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-015D-2-2.2
Report Number: PKC0135

Sampled: 03/06/01-03/07/01
Received: 03/07/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1C1604 Extracted: 03/16/01** | | | | | | | | | | |
| **LCS Analyzed: 03/16/01 (P1C1604-BS1)** | | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | 24.1 | 5.0 | ug/l | 25.0 | | 96.4 | 40-150 | | | |
| 1,2-Dibromoethane (EDB) | 26.6 | 2.0 | ug/l | 25.0 | | 106 | 55-155 | | | |
| Dibromomethane | 25.4 | 2.0 | ug/l | 25.0 | | 102 | 60-155 | | | |
| 1,2-Dichlorobenzene | 24.6 | 2.0 | ug/l | 25.0 | | 98.4 | 65-140 | | | |
| 1,3-Dichlorobenzene | 24.9 | 2.0 | ug/l | 25.0 | | 99.6 | 65-145 | | | |
| 1,4-Dichlorobenzene | 24.5 | 2.0 | ug/l | 25.0 | | 98.0 | 65-140 | | | |
| Dichlorodifluoromethane | 25.2 | 5.0 | ug/l | 25.0 | | 101 | 30-190 | | | |
| 1,1-Dichloroethane | 22.3 | 2.0 | ug/l | 25.0 | | 89.2 | 70-130 | | | |
| 1,2-Dichloroethane | 23.0 | 2.0 | ug/l | 25.0 | | 92.0 | 70-130 | | | |
| 1,1-Dichloroethene | 21.9 | 5.0 | ug/l | 25.0 | | 87.6 | 75-125 | | | |
| cis-1,2-Dichloroethene | 24.3 | 2.0 | ug/l | 25.0 | | 97.2 | 70-130 | | | |
| trans-1,2-Dichloroethene | 23.7 | 2.0 | ug/l | 25.0 | | 94.8 | 55-175 | | | |
| 1,2-Dichloropropane | 24.7 | 2.0 | ug/l | 25.0 | | 98.8 | 70-130 | | | |
| 1,3-Dichloropropane | 27.0 | 2.0 | ug/l | 25.0 | | 108 | 60-150 | | | |
| 2,2-Dichloropropane | 22.8 | 2.0 | ug/l | 25.0 | | 91.2 | 15-200 | | | |
| 1,1-Dichloropropene | 23.1 | 2.0 | ug/l | 25.0 | | 92.4 | 65-150 | | | |
| cis-1,3-Dichloropropene | 24.6 | 2.0 | ug/l | 25.0 | | 98.4 | 65-150 | | | |
| trans-1,3-Dichloropropene | 26.2 | 2.0 | ug/l | 25.0 | | 105 | 60-150 | | | |
| Ethylbenzene | 26.3 | 2.0 | ug/l | 25.0 | | 105 | 60-150 | | | |
| Hexachlorobutadiene | 28.0 | 5.0 | ug/l | 25.0 | | 112 | 55-150 | | | |
| 2-Hexanone | 28.8 | 10 | ug/l | 25.0 | | 115 | 35-165 | | | |
| Iodomethane | 16.2 | 2.0 | ug/l | 25.0 | | 64.8 | 65-160 | | | L4 |
| Isopropylbenzene | 26.2 | 2.0 | ug/l | 25.0 | | 105 | 65-145 | | | |
| p-Isopropyltoluene | 24.9 | 2.0 | ug/l | 25.0 | | 99.6 | 60-145 | | | |
| Methylene chloride | 23.1 | 5.0 | ug/l | 25.0 | | 92.4 | 65-160 | | | |
| 4-Methyl-2-pentanone (MIBK) | 27.5 | 10 | ug/l | 25.0 | | 110 | 40-165 | | | |
| Methyl-tert-butyl Ether (MTBE) | 24.8 | 5.0 | ug/l | 25.0 | | 99.2 | 60-160 | | | |
| Naphthalene | 28.4 | 5.0 | ug/l | 25.0 | | 114 | 50-150 | | | |
| n-Propylbenzene | 24.8 | 2.0 | ug/l | 25.0 | | 99.2 | 70-145 | | | |
| Styrene | 27.9 | 2.0 | ug/l | 25.0 | | 112 | 65-150 | | | |
| 1,1,1,2-Tetrachloroethane | 26.4 | 5.0 | ug/l | 25.0 | | 106 | 60-155 | | | |

Beth Price For Julie M. Slocum
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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-015D-2-2.2
Report Number: PKC0135

Sampled: 03/06/01-03/07/01
Received: 03/07/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1C1604 Extracted: 03/16/01** | | | | | | | | | | |
| **LCS Analyzed: 03/16/01 (P1C1604-BS1)** | | | | | | | | | | |
| **1,1,2,2-Tetrachloroethane** | **26.5** | 2.0 | ug/l | 25.0 | | 106 | 65-150 | | | |
| **Tetrachloroethene** | **26.7** | 2.0 | ug/l | 25.0 | | 107 | 70-130 | | | |
| **Toluene** | **26.2** | 2.0 | ug/l | 25.0 | | 105 | 70-125 | | | |
| **1,2,3-Trichlorobenzene** | **27.9** | 5.0 | ug/l | 25.0 | | 112 | 55-150 | | | |
| **1,2,4-Trichlorobenzene** | **27.3** | 5.0 | ug/l | 25.0 | | 109 | 60-145 | | | |
| **1,1,1-Trichloroethane** | **23.1** | 2.0 | ug/l | 25.0 | | 92.4 | 70-130 | | | |
| **1,1,2-Trichloroethane** | **27.7** | 2.0 | ug/l | 25.0 | | 111 | 70-130 | | | |
| **Trichloroethene** | **24.5** | 2.0 | ug/l | 25.0 | | 98.0 | 75-120 | | | |
| **Trichlorofluoromethane** | **23.7** | 5.0 | ug/l | 25.0 | | 94.8 | 10-200 | | | |
| **1,2,3-Trichloropropane** | **24.1** | 10 | ug/l | 25.0 | | 96.4 | 55-150 | | | |
| **1,2,4-Trimethylbenzene** | **25.0** | 2.0 | ug/l | 25.0 | | 100 | 65-150 | | | |
| **1,3,5-Trimethylbenzene** | **24.3** | 2.0 | ug/l | 25.0 | | 97.2 | 65-150 | | | |
| **Vinyl acetate** | **22.6** | 5.0 | ug/l | 25.0 | | 90.4 | 50-160 | | | |
| **Vinyl chloride** | **24.2** | 5.0 | ug/l | 25.0 | | 96.8 | 25-200 | | | |
| **Xylenes, Total** | **79.9** | 10 | ug/l | 75.0 | | 107 | 65-145 | | | |
| *Surrogate: Dibromofluoromethane* | *25.8* | | *ug/l* | *25.0* | | *103* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *27.5* | | *ug/l* | *25.0* | | *110* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.3* | | *ug/l* | *25.0* | | *101* | *80-120* | | | |
| **LCS Dup Analyzed: 03/16/01 (P1C1604-BSD1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | 25.0 | | 75.6 | 35-150 | 20.9 | 20 | R6 |
| **Benzene** | **25.5** | 2.0 | ug/l | 25.0 | | 102 | 75-120 | 4.00 | 20 | |
| **Bromobenzene** | **25.3** | 5.0 | ug/l | 25.0 | | 101 | 65-150 | 3.21 | 20 | |
| **Bromochloromethane** | **27.7** | 5.0 | ug/l | 25.0 | | 111 | 60-155 | 1.82 | 20 | |
| **Bromodichloromethane** | **25.0** | 2.0 | ug/l | 25.0 | | 100 | 60-155 | 2.84 | 20 | |
| **Bromoform** | **25.6** | 5.0 | ug/l | 25.0 | | 102 | 25-160 | 2.77 | 20 | |
| **Bromomethane** | **25.2** | 5.0 | ug/l | 25.0 | | 101 | 55-170 | 6.13 | 20 | |
| **2-Butanone (MEK)** | **20.2** | 10 | ug/l | 25.0 | | 80.8 | 35-165 | 19.6 | 20 | |
| **n-Butylbenzene** | **29.9** | 5.0 | ug/l | 25.0 | | 120 | 65-140 | 15.5 | 20 | |
| **sec-Butylbenzene** | **29.4** | 5.0 | ug/l | 25.0 | | 118 | 60-145 | 11.9 | 20 | |
| **tert-Butylbenzene** | **29.8** | 5.0 | ug/l | 25.0 | | 119 | 65-145 | 11.7 | 20 | |

Beth Price For Julie M. Slocum
Project Manager



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Attention: Jim Clarke

Client Project ID: 70211-0-015D-2-2.2
Report Number: PKC0135

Sampled: 03/06/01-03/07/01
Received: 03/07/01

[redacted]

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1C1604 Extracted: 03/16/01** | | | | | | | | | | |
| **LCS Dup Analyzed: 03/16/01 (P1C1604-BSD1)** | | | | | | | | | | |
| Carbon Disulfide | 21.8 | 5.0 | ug/l | 25.0 | | 87.2 | 65-155 | 6.15 | 20 | |
| Carbon tetrachloride | 26.0 | 5.0 | ug/l | 25.0 | | 104 | 65-150 | 10.1 | 20 | |
| Chlorobenzene | 27.8 | 2.0 | ug/l | 25.0 | | 111 | 75-130 | 6.69 | 20 | |
| Chloroethane | 26.2 | 5.0 | ug/l | 25.0 | | 105 | 65-165 | 5.09 | 20 | |
| Chloroform | 24.7 | 2.0 | ug/l | 25.0 | | 98.8 | 70-130 | 1.63 | 20 | |
| Chloromethane | 33.8 | 5.0 | ug/l | 25.0 | | 135 | 60-165 | 8.32 | 20 | |
| 2-Chlorotoluene | 25.6 | 5.0 | ug/l | 25.0 | | 102 | 65-145 | 5.21 | 20 | |
| 4-Chlorotoluene | 27.2 | 5.0 | ug/l | 25.0 | | 109 | 70-145 | 11.7 | 20 | |
| Dibromochloromethane | 27.4 | 2.0 | ug/l | 25.0 | | 110 | 55-155 | 0.366 | 20 | |
| 1,2-Dibromo-3-chloropropane | 22.3 | 5.0 | ug/l | 25.0 | | 89.2 | 40-150 | 7.76 | 20 | |
| 1,2-Dibromoethane (EDB) | 26.4 | 2.0 | ug/l | 25.0 | | 106 | 55-155 | 0.755 | 20 | |
| Dibromomethane | 25.2 | 2.0 | ug/l | 25.0 | | 101 | 60-155 | 0.791 | 20 | |
| 1,2-Dichlorobenzene | 26.2 | 2.0 | ug/l | 25.0 | | 105 | 65-140 | 6.30 | 20 | |
| 1,3-Dichlorobenzene | 26.9 | 2.0 | ug/l | 25.0 | | 108 | 65-145 | 7.72 | 20 | |
| 1,4-Dichlorobenzene | 26.6 | 2.0 | ug/l | 25.0 | | 106 | 65-140 | 8.22 | 20 | |
| Dichlorodifluoromethane | 27.4 | 5.0 | ug/l | 25.0 | | 110 | 30-190 | 8.37 | 20 | |
| 1,1-Dichloroethane | 23.4 | 2.0 | ug/l | 25.0 | | 93.6 | 70-130 | 4.81 | 20 | |
| 1,2-Dichloroethane | 22.9 | 2.0 | ug/l | 25.0 | | 91.6 | 70-130 | 0.436 | 20 | |
| 1,1-Dichloroethene | 24.9 | 5.0 | ug/l | 25.0 | | 99.6 | 75-125 | 12.8 | 20 | |
| cis-1,2-Dichloroethene | 23.4 | 2.0 | ug/l | 25.0 | | 93.6 | 70-130 | 3.77 | 20 | |
| trans-1,2-Dichloroethene | 24.3 | 2.0 | ug/l | 25.0 | | 97.2 | 55-175 | 2.50 | 20 | |
| 1,2-Dichloropropane | 25.3 | 2.0 | ug/l | 25.0 | | 101 | 70-130 | 2.40 | 20 | |
| 1,3-Dichloropropane | 27.0 | 2.0 | ug/l | 25.0 | | 108 | 60-150 | 0 | 20 | |
| 2,2-Dichloropropane | 24.2 | 2.0 | ug/l | 25.0 | | 96.8 | 15-200 | 5.96 | 20 | |
| 1,1-Dichloropropene | 25.4 | 2.0 | ug/l | 25.0 | | 102 | 65-150 | 9.48 | 20 | |
| cis-1,3-Dichloropropene | 25.2 | 2.0 | ug/l | 25.0 | | 101 | 65-150 | 2.41 | 20 | |
| trans-1,3-Dichloropropene | 27.6 | 2.0 | ug/l | 25.0 | | 110 | 60-150 | 5.20 | 20 | |
| Ethylbenzene | 28.0 | 2.0 | ug/l | 25.0 | | 112 | 60-150 | 6.26 | 20 | |
| Hexachlorobutadiene | 35.8 | 5.0 | ug/l | 25.0 | | 143 | 55-150 | 24.5 | 20 | R6 |
| 2-Hexanone | 25.0 | 10 | ug/l | 25.0 | | 100 | 35-165 | 14.1 | 20 | |
| Iodomethane | 13.5 | 2.0 | ug/l | 25.0 | | 54.0 | 65-160 | 18.2 | 20 | L4 |

Beth Price For Julie M. Slocum
Project Manager



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Attention: Jim Clarke

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Report Number: PKC0135

Sampled: 03/06/01-03/07/01
Received: 03/07/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1C1604 Extracted: 03/16/01** | | | | | | | | | | |
| **LCS Dup Analyzed: 03/16/01 (P1C1604-BSD1)** | | | | | | | | | | |
| **Isopropylbenzene** | **29.2** | 2.0 | ug/l | 25.0 | | 117 | 65-145 | 10.8 | 20 | |
| **p-Isopropyltoluene** | **28.5** | 2.0 | ug/l | 25.0 | | 114 | 60-145 | 13.5 | 20 | |
| **Methylene chloride** | **21.6** | 5.0 | ug/l | 25.0 | | 86.4 | 65-160 | 6.71 | 20 | |
| **4-Methyl-2-pentanone (MIBK)** | **23.5** | 10 | ug/l | 25.0 | | 94.0 | 40-165 | 15.7 | 20 | |
| **Methyl-tert-butyl Ether (MTBE)** | **23.1** | 5.0 | ug/l | 25.0 | | 92.4 | 60-160 | 7.10 | 20 | |
| **Naphthalene** | **27.2** | 5.0 | ug/l | 25.0 | | 109 | 50-150 | 4.32 | 20 | |
| **n-Propylbenzene** | **27.7** | 2.0 | ug/l | 25.0 | | 111 | 70-145 | 11.0 | 20 | |
| **Styrene** | **29.3** | 2.0 | ug/l | 25.0 | | 117 | 65-150 | 4.90 | 20 | |
| **1,1,1,2-Tetrachloroethane** | **28.5** | 5.0 | ug/l | 25.0 | | 114 | 60-155 | 7.65 | 20 | |
| **1,1,2,2-Tetrachloroethane** | **25.1** | 2.0 | ug/l | 25.0 | | 100 | 65-150 | 5.43 | 20 | |
| **Tetrachloroethene** | **28.9** | 2.0 | ug/l | 25.0 | | 116 | 70-130 | 7.91 | 20 | |
| **Toluene** | **28.6** | 2.0 | ug/l | 25.0 | | 114 | 70-125 | 8.76 | 20 | |
| **1,2,3-Trichlorobenzene** | **29.6** | 5.0 | ug/l | 25.0 | | 118 | 55-150 | 5.91 | 20 | |
| **1,2,4-Trichlorobenzene** | **29.7** | 5.0 | ug/l | 25.0 | | 119 | 60-145 | 8.42 | 20 | |
| **1,1,1-Trichloroethane** | **25.0** | 2.0 | ug/l | 25.0 | | 100 | 70-130 | 7.90 | 20 | |
| **1,1,2-Trichloroethane** | **26.4** | 2.0 | ug/l | 25.0 | | 106 | 70-130 | 4.81 | 20 | |
| **Trichloroethene** | **26.5** | 2.0 | ug/l | 25.0 | | 106 | 75-120 | 7.84 | 20 | |
| **Trichlorofluoromethane** | **25.5** | 5.0 | ug/l | 25.0 | | 102 | 10-200 | 7.32 | 20 | |
| **1,2,3-Trichloropropane** | **22.7** | 10 | ug/l | 25.0 | | 90.8 | 55-150 | 5.98 | 20 | |
| **1,2,4-Trimethylbenzene** | **27.2** | 2.0 | ug/l | 25.0 | | 109 | 65-150 | 8.43 | 20 | |
| **1,3,5-Trimethylbenzene** | **26.9** | 2.0 | ug/l | 25.0 | | 108 | 65-150 | 10.2 | 20 | |
| **Vinyl acetate** | **21.7** | 5.0 | ug/l | 25.0 | | 86.8 | 50-160 | 4.06 | 20 | |
| **Vinyl chloride** | **27.5** | 5.0 | ug/l | 25.0 | | 110 | 25-200 | 12.8 | 20 | |
| **Xylenes, Total** | **86.2** | 10 | ug/l | 75.0 | | 115 | 65-145 | 7.59 | 20 | |
| *Surrogate: Dibromofluoromethane* | *24.8* | | *ug/l* | *25.0* | | *99.2* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *28.5* | | *ug/l* | *25.0* | | *114* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *24.9* | | *ug/l* | *25.0* | | *99.6* | *80-120* | | | |

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Project Manager



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Received: 03/07/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1C1604 Extracted: 03/16/01** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/16/01 (P1C1604-MS1)** | | | | | **Source: PKC0135-01** | | | | | |
| Acetone | 23.5 | 20 | ug/l | 25.0 | ND | 74.8 | 35-150 | | | |
| Benzene | 26.6 | 2.0 | ug/l | 25.0 | ND | 106 | 80-125 | | | |
| Bromobenzene | 26.3 | 5.0 | ug/l | 25.0 | ND | 105 | 65-150 | | | |
| Bromochloromethane | 28.8 | 5.0 | ug/l | 25.0 | ND | 115 | 60-155 | | | |
| Bromodichloromethane | 25.6 | 2.0 | ug/l | 25.0 | ND | 102 | 60-155 | | | |
| Bromoform | 27.7 | 5.0 | ug/l | 25.0 | ND | 111 | 25-160 | | | |
| Bromomethane | 28.5 | 5.0 | ug/l | 25.0 | ND | 114 | 55-170 | | | |
| 2-Butanone (MEK) | 28.0 | 10 | ug/l | 25.0 | ND | 92.8 | 35-165 | | | |
| n-Butylbenzene | 26.5 | 5.0 | ug/l | 25.0 | ND | 106 | 65-140 | | | |
| sec-Butylbenzene | 27.7 | 5.0 | ug/l | 25.0 | ND | 111 | 60-145 | | | |
| tert-Butylbenzene | 27.6 | 5.0 | ug/l | 25.0 | ND | 110 | 65-145 | | | |
| Carbon Disulfide | 22.0 | 5.0 | ug/l | 25.0 | ND | 88.0 | 65-155 | | | |
| Carbon tetrachloride | 24.9 | 5.0 | ug/l | 25.0 | ND | 99.6 | 65-150 | | | |
| Chlorobenzene | 28.4 | 2.0 | ug/l | 25.0 | ND | 114 | 80-125 | | | |
| Chloroethane | 24.7 | 5.0 | ug/l | 25.0 | ND | 98.8 | 65-165 | | | |
| Chloroform | 26.1 | 2.0 | ug/l | 25.0 | ND | 104 | 70-130 | | | |
| Chloromethane | 27.3 | 5.0 | ug/l | 25.0 | ND | 109 | 60-165 | | | |
| 2-Chlorotoluene | 25.9 | 5.0 | ug/l | 25.0 | ND | 104 | 65-145 | | | |
| 4-Chlorotoluene | 26.6 | 5.0 | ug/l | 25.0 | ND | 106 | 70-145 | | | |
| Dibromochloromethane | 30.4 | 2.0 | ug/l | 25.0 | ND | 122 | 55-155 | | | |
| 1,2-Dibromo-3-chloropropane | 25.9 | 5.0 | ug/l | 25.0 | ND | 104 | 40-150 | | | |
| 1,2-Dibromoethane (EDB) | 29.7 | 2.0 | ug/l | 25.0 | ND | 119 | 55-155 | | | |
| Dibromomethane | 28.3 | 2.0 | ug/l | 25.0 | ND | 113 | 60-155 | | | |
| 1,2-Dichlorobenzene | 26.4 | 2.0 | ug/l | 25.0 | ND | 106 | 65-140 | | | |
| 1,3-Dichlorobenzene | 26.8 | 2.0 | ug/l | 25.0 | ND | 107 | 65-145 | | | |
| 1,4-Dichlorobenzene | 26.4 | 2.0 | ug/l | 25.0 | ND | 106 | 65-140 | | | |
| Dichlorodifluoromethane | 25.8 | 5.0 | ug/l | 25.0 | ND | 103 | 30-190 | | | |
| 1,1-Dichloroethane | 24.3 | 2.0 | ug/l | 25.0 | ND | 97.2 | 70-130 | | | |
| 1,2-Dichloroethane | 25.0 | 2.0 | ug/l | 25.0 | ND | 100 | 70-130 | | | |
| 1,1-Dichloroethene | 24.7 | 5.0 | ug/l | 25.0 | ND | 98.8 | 75-135 | | | |
| cis-1,2-Dichloroethene | 27.9 | 2.0 | ug/l | 25.0 | ND | 112 | 70-130 | | | |

Beth Price For Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-015D-2-2.2
Report Number: PKC0135

Sampled: 03/06/01-03/07/01
Received: 03/07/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1C1604 Extracted: 03/16/01** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/16/01 (P1C1604-MS1)** | | | | | **Source: PKC0135-01** | | | | | |
| trans-1,2-Dichloroethene | 25.3 | 2.0 | ug/l | 25.0 | ND | 101 | 55-175 | | | |
| 1,2-Dichloropropane | 26.8 | 2.0 | ug/l | 25.0 | ND | 107 | 70-130 | | | |
| 1,3-Dichloropropane | 28.6 | 2.0 | ug/l | 25.0 | ND | 114 | 60-150 | | | |
| 2,2-Dichloropropane | 24.3 | 2.0 | ug/l | 25.0 | ND | 97.2 | 15-200 | | | |
| 1,1-Dichloropropene | 25.0 | 2.0 | ug/l | 25.0 | ND | 100 | 65-150 | | | |
| cis-1,3-Dichloropropene | 26.1 | 2.0 | ug/l | 25.0 | ND | 104 | 65-150 | | | |
| trans-1,3-Dichloropropene | 28.4 | 2.0 | ug/l | 25.0 | ND | 114 | 60-150 | | | |
| Ethylbenzene | 28.0 | 2.0 | ug/l | 25.0 | ND | 112 | 60-150 | | | |
| Hexachlorobutadiene | 23.4 | 5.0 | ug/l | 25.0 | ND | 93.6 | 55-150 | | | |
| 2-Hexanone | 31.2 | 10 | ug/l | 25.0 | ND | 125 | 35-165 | | | |
| Iodomethane | 16.9 | 2.0 | ug/l | 25.0 | ND | 67.6 | 65-160 | | | |
| Isopropylbenzene | 28.1 | 2.0 | ug/l | 25.0 | ND | 112 | 65-145 | | | |
| p-Isopropyltoluene | 26.0 | 2.0 | ug/l | 25.0 | ND | 104 | 60-145 | | | |
| Methylene chloride | 24.1 | 5.0 | ug/l | 25.0 | ND | 96.4 | 65-160 | | | |
| 4-Methyl-2-pentanone (MIBK) | 28.9 | 10 | ug/l | 25.0 | ND | 116 | 40-165 | | | |
| Methyl-tert-butyl Ether (MTBE) | 26.4 | 5.0 | ug/l | 25.0 | ND | 106 | 60-160 | | | |
| Naphthalene | 27.3 | 5.0 | ug/l | 25.0 | ND | 109 | 50-150 | | | |
| n-Propylbenzene | 26.6 | 2.0 | ug/l | 25.0 | ND | 106 | 70-145 | | | |
| Styrene | 22.2 | 2.0 | ug/l | 25.0 | ND | 88.8 | 65-150 | | | |
| 1,1,1,2-Tetrachloroethane | 28.8 | 5.0 | ug/l | 25.0 | ND | 115 | 60-155 | | | |
| 1,1,2,2-Tetrachloroethane | 29.0 | 2.0 | ug/l | 25.0 | ND | 116 | 65-150 | | | |
| Tetrachloroethene | 29.2 | 2.0 | ug/l | 25.0 | ND | 117 | 70-130 | | | |
| Toluene | 29.0 | 2.0 | ug/l | 25.0 | ND | 116 | 80-125 | | | |
| 1,2,3-Trichlorobenzene | 26.6 | 5.0 | ug/l | 25.0 | ND | 106 | 55-150 | | | |
| 1,2,4-Trichlorobenzene | 26.5 | 5.0 | ug/l | 25.0 | ND | 106 | 60-145 | | | |
| 1,1,1-Trichloroethane | 24.3 | 2.0 | ug/l | 25.0 | ND | 97.2 | 70-130 | | | |
| 1,1,2-Trichloroethane | 29.6 | 2.0 | ug/l | 25.0 | ND | 118 | 70-130 | | | |
| Trichloroethene | 27.0 | 2.0 | ug/l | 25.0 | ND | 108 | 80-125 | | | |
| Trichlorofluoromethane | 24.8 | 5.0 | ug/l | 25.0 | ND | 99.2 | 10-200 | | | |
| 1,2,3-Trichloropropane | 27.5 | 10 | ug/l | 25.0 | ND | 110 | 55-150 | | | |
| 1,2,4-Trimethylbenzene | 26.6 | 2.0 | ug/l | 25.0 | ND | 106 | 65-150 | | | |

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Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-015D-2-2.2
Report Number: PKC0135

Sampled: 03/06/01-03/07/01
Received: 03/07/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1C1604 Extracted: 03/16/01** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/16/01 (P1C1604-MS1)** | | | | | **Source: PKC0135-01** | | | | | |
| **1,3,5-Trimethylbenzene** | **26.1** | 2.0 | ug/l | 25.0 | ND | 104 | 65-150 | | | |
| **Vinyl acetate** | **21.6** | 5.0 | ug/l | 25.0 | ND | 86.4 | 50-160 | | | |
| **Vinyl chloride** | **24.6** | 5.0 | ug/l | 25.0 | ND | 98.4 | 25-200 | | | |
| **Xylenes, Total** | **85.3** | 10 | ug/l | 75.0 | ND | 114 | 65-145 | | | |
| *Surrogate: Dibromofluoromethane* | *26.1* | | *ug/l* | *25.0* | | *104* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *28.6* | | *ug/l* | *25.0* | | *114* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.5* | | *ug/l* | *25.0* | | *102* | *80-120* | | | |
| **Matrix Spike Dup Analyzed: 03/16/01 (P1C1604-MSD1)** | | | | | **Source: PKC0135-01** | | | | | |
| **Acetone** | **22.1** | 20 | ug/l | 25.0 | ND | 69.2 | 35-150 | 6.14 | 20 | |
| **Benzene** | **25.5** | 2.0 | ug/l | 25.0 | ND | 102 | 80-125 | 4.22 | 20 | |
| **Bromobenzene** | **25.3** | 5.0 | ug/l | 25.0 | ND | 101 | 65-150 | 3.88 | 20 | |
| **Bromochloromethane** | **30.0** | 5.0 | ug/l | 25.0 | ND | 120 | 60-155 | 4.08 | 20 | |
| **Bromodichloromethane** | **25.6** | 2.0 | ug/l | 25.0 | ND | 102 | 60-155 | 0 | 20 | |
| **Bromoform** | **27.7** | 5.0 | ug/l | 25.0 | ND | 111 | 25-160 | 0 | 20 | |
| **Bromomethane** | **27.5** | 5.0 | ug/l | 25.0 | ND | 110 | 55-170 | 3.57 | 20 | |
| **2-Butanone (MEK)** | **26.4** | 10 | ug/l | 25.0 | ND | 86.4 | 35-165 | 5.88 | 20 | |
| **n-Butylbenzene** | **24.1** | 5.0 | ug/l | 25.0 | ND | 96.4 | 65-140 | 9.49 | 20 | |
| **sec-Butylbenzene** | **25.0** | 5.0 | ug/l | 25.0 | ND | 100 | 60-145 | 10.2 | 20 | |
| **tert-Butylbenzene** | **26.1** | 5.0 | ug/l | 25.0 | ND | 104 | 65-145 | 5.59 | 20 | |
| **Carbon Disulfide** | **21.9** | 5.0 | ug/l | 25.0 | ND | 87.6 | 65-155 | 0.456 | 20 | |
| **Carbon tetrachloride** | **24.4** | 5.0 | ug/l | 25.0 | ND | 97.6 | 65-150 | 2.03 | 20 | |
| **Chlorobenzene** | **27.4** | 2.0 | ug/l | 25.0 | ND | 110 | 80-125 | 3.58 | 20 | |
| **Chloroethane** | **24.9** | 5.0 | ug/l | 25.0 | ND | 99.6 | 65-165 | 0.806 | 20 | |
| **Chloroform** | **25.5** | 2.0 | ug/l | 25.0 | ND | 102 | 70-130 | 2.33 | 20 | |
| **Chloromethane** | **25.6** | 5.0 | ug/l | 25.0 | ND | 102 | 60-165 | 6.43 | 20 | |
| **2-Chlorotoluene** | **24.8** | 5.0 | ug/l | 25.0 | ND | 99.2 | 65-145 | 4.34 | 20 | |
| **4-Chlorotoluene** | **25.8** | 5.0 | ug/l | 25.0 | ND | 103 | 70-145 | 3.05 | 20 | |
| **Dibromochloromethane** | **30.3** | 2.0 | ug/l | 25.0 | ND | 121 | 55-155 | 0.329 | 20 | |
| **1,2-Dibromo-3-chloropropane** | **24.3** | 5.0 | ug/l | 25.0 | ND | 97.2 | 40-150 | 6.37 | 20 | |
| **1,2-Dibromoethane (EDB)** | **29.1** | 2.0 | ug/l | 25.0 | ND | 116 | 55-155 | 2.04 | 20 | |

Beth Price For Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-015D-2-2.2

Report Number: PKC0135

Sampled: 03/06/01-03/07/01
Received: 03/07/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1C1604 Extracted: 03/16/01** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/16/01 (P1C1604-MSD1)** | | | | | **Source: PKC0135-01** | | | | | |
| Dibromomethane | 27.5 | 2.0 | ug/l | 25.0 | ND | 110 | 60-155 | 2.87 | 20 | |
| 1,2-Dichlorobenzene | 25.7 | 2.0 | ug/l | 25.0 | ND | 103 | 65-140 | 2.69 | 20 | |
| 1,3-Dichlorobenzene | 25.3 | 2.0 | ug/l | 25.0 | ND | 101 | 65-145 | 5.76 | 20 | |
| 1,4-Dichlorobenzene | 26.0 | 2.0 | ug/l | 25.0 | ND | 104 | 65-140 | 1.53 | 20 | |
| Dichlorodifluoromethane | 25.5 | 5.0 | ug/l | 25.0 | ND | 102 | 30-190 | 1.17 | 20 | |
| 1,1-Dichloroethane | 23.5 | 2.0 | ug/l | 25.0 | ND | 94.0 | 70-130 | 3.35 | 20 | |
| 1,2-Dichloroethane | 25.0 | 2.0 | ug/l | 25.0 | ND | 100 | 70-130 | 0 | 20 | |
| 1,1-Dichloroethene | 24.2 | 5.0 | ug/l | 25.0 | ND | 96.8 | 75-135 | 2.04 | 20 | |
| cis-1,2-Dichloroethene | 26.8 | 2.0 | ug/l | 25.0 | ND | 107 | 70-130 | 4.02 | 20 | |
| trans-1,2-Dichloroethene | 24.5 | 2.0 | ug/l | 25.0 | ND | 98.0 | 55-175 | 3.21 | 20 | |
| 1,2-Dichloropropane | 25.8 | 2.0 | ug/l | 25.0 | ND | 103 | 70-130 | 3.80 | 20 | |
| 1,3-Dichloropropane | 29.4 | 2.0 | ug/l | 25.0 | ND | 118 | 60-150 | 2.76 | 20 | |
| 2,2-Dichloropropane | 23.5 | 2.0 | ug/l | 25.0 | ND | 94.0 | 15-200 | 3.35 | 20 | |
| 1,1-Dichloropropene | 24.0 | 2.0 | ug/l | 25.0 | ND | 96.0 | 65-150 | 4.08 | 20 | |
| cis-1,3-Dichloropropene | 25.1 | 2.0 | ug/l | 25.0 | ND | 100 | 65-150 | 3.91 | 20 | |
| trans-1,3-Dichloropropene | 28.6 | 2.0 | ug/l | 25.0 | ND | 114 | 60-150 | 0.702 | 20 | |
| Ethylbenzene | 27.5 | 2.0 | ug/l | 25.0 | ND | 110 | 60-150 | 1.80 | 20 | |
| Hexachlorobutadiene | 22.3 | 5.0 | ug/l | 25.0 | ND | 89.2 | 55-150 | 4.81 | 20 | |
| 2-Hexanone | 31.5 | 10 | ug/l | 25.0 | ND | 126 | 35-165 | 0.957 | 20 | |
| Iodomethane | 16.4 | 2.0 | ug/l | 25.0 | ND | 65.6 | 65-160 | 3.00 | 20 | |
| Isopropylbenzene | 28.0 | 2.0 | ug/l | 25.0 | ND | 112 | 65-145 | 0.357 | 20 | |
| p-Isopropyltoluene | 24.2 | 2.0 | ug/l | 25.0 | ND | 96.8 | 60-145 | 7.17 | 20 | |
| Methylene chloride | 23.4 | 5.0 | ug/l | 25.0 | ND | 93.6 | 65-160 | 2.95 | 20 | |
| 4-Methyl-2-pentanone (MIBK) | 30.3 | 10 | ug/l | 25.0 | ND | 121 | 40-165 | 4.73 | 20 | |
| Methyl-tert-butyl Ether (MTBE) | 26.4 | 5.0 | ug/l | 25.0 | ND | 106 | 60-160 | 0 | 20 | |
| Naphthalene | 26.8 | 5.0 | ug/l | 25.0 | ND | 107 | 50-150 | 1.85 | 20 | |
| n-Propylbenzene | 24.8 | 2.0 | ug/l | 25.0 | ND | 99.2 | 70-145 | 7.00 | 20 | |
| Styrene | 18.5 | 2.0 | ug/l | 25.0 | ND | 74.0 | 65-150 | 18.2 | 20 | |
| 1,1,1,2-Tetrachloroethane | 28.6 | 5.0 | ug/l | 25.0 | ND | 114 | 60-155 | 0.697 | 20 | |
| 1,1,2,2-Tetrachloroethane | 27.9 | 2.0 | ug/l | 25.0 | ND | 112 | 65-150 | 3.87 | 20 | |
| Tetrachloroethene | 28.9 | 2.0 | ug/l | 25.0 | ND | 116 | 70-130 | 1.03 | 20 | |

Beth Price For Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-015D-2-2.2

Report Number: PKC0135

Sampled: 03/06/01-03/07/01
Received: 03/07/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1C1604 Extracted: 03/16/01** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/16/01 (P1C1604-MSD1)** | | | | | **Source: PKC0135-01** | | | | | |
| **Toluene** | **28.8** | 2.0 | ug/l | 25.0 | ND | 115 | 80-125 | 0.692 | 20 | |
| **1,2,3-Trichlorobenzene** | **25.3** | 5.0 | ug/l | 25.0 | ND | 101 | 55-150 | 5.01 | 20 | |
| **1,2,4-Trichlorobenzene** | **25.2** | 5.0 | ug/l | 25.0 | ND | 101 | 60-145 | 5.03 | 20 | |
| **1,1,1-Trichloroethane** | **23.4** | 2.0 | ug/l | 25.0 | ND | 93.6 | 70-130 | 3.77 | 20 | |
| **1,1,2-Trichloroethane** | **30.5** | 2.0 | ug/l | 25.0 | ND | 122 | 70-130 | 3.00 | 20 | |
| **Trichloroethene** | **25.6** | 2.0 | ug/l | 25.0 | ND | 102 | 80-125 | 5.32 | 20 | |
| **Trichlorofluoromethane** | **24.0** | 5.0 | ug/l | 25.0 | ND | 96.0 | 10-200 | 3.28 | 20 | |
| **1,2,3-Trichloropropane** | **26.0** | 10 | ug/l | 25.0 | ND | 104 | 55-150 | 5.61 | 20 | |
| **1,2,4-Trimethylbenzene** | **24.9** | 2.0 | ug/l | 25.0 | ND | 99.6 | 65-150 | 6.60 | 20 | |
| **1,3,5-Trimethylbenzene** | **24.6** | 2.0 | ug/l | 25.0 | ND | 98.4 | 65-150 | 5.92 | 20 | |
| **Vinyl acetate** | **19.8** | 5.0 | ug/l | 25.0 | ND | 79.2 | 50-160 | 8.70 | 20 | |
| **Vinyl chloride** | **24.7** | 5.0 | ug/l | 25.0 | ND | 98.8 | 25-200 | 0.406 | 20 | |
| **Xylenes, Total** | **84.3** | 10 | ug/l | 75.0 | ND | 112 | 65-145 | 1.18 | 20 | |
| *Surrogate: Dibromofluoromethane* | *26.5* | | *ug/l* | *25.0* | | *106* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *28.8* | | *ug/l* | *25.0* | | *115* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.1* | | *ug/l* | *25.0* | | *100* | *80-120* | | | |

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Project Manager



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Attention: Jim Clarke

Client Project ID: 70211-0-015D-2-2.2
Report Number: PKC0135

Sampled: 03/06/01-03/07/01
Received: 03/07/01

METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1C0910 Extracted: 03/09/01** | | | | | | | | | | |
| **Blank Analyzed: 03/19/01 (P1C0910-BLK1)** | | | | | | | | | | |
| Arsenic | ND | 0.0030 | mg/l | | | | | | | |
| Chromium | ND | 0.0040 | mg/l | | | | | | | |
| **LCS Analyzed: 03/19/01 (P1C0910-BS1)** | | | | | | | | | | |
| **Arsenic** | **0.0415** | 0.0060 | mg/l | 0.0400 | | 104 | 85-115 | | | |
| **Chromium** | **0.0417** | 0.0080 | mg/l | 0.0400 | | 104 | 85-115 | | | |
| **LCS Dup Analyzed: 03/19/01 (P1C0910-BSD1)** | | | | | | | | | | |
| **Arsenic** | **0.0422** | 0.0060 | mg/l | 0.0400 | | 106 | 85-115 | 1.67 | 20 | |
| **Chromium** | **0.0437** | 0.0080 | mg/l | 0.0400 | | 109 | 85-115 | 4.68 | 20 | |
| **Matrix Spike Analyzed: 03/19/01 (P1C0910-MS1)** | | | | | **Source: PKC0135-01** | | | | | |
| **Arsenic** | **0.0390** | 0.0060 | mg/l | 0.0400 | ND | 88.3 | 70-130 | | | |
| **Chromium** | **0.0399** | 0.0080 | mg/l | 0.0400 | 0.012 | 69.8 | 70-130 | | | M2 |
| **Matrix Spike Dup Analyzed: 03/19/01 (P1C0910-MSD1)** | | | | | **Source: PKC0135-01** | | | | | |
| **Arsenic** | **0.0414** | 0.0060 | mg/l | 0.0400 | ND | 94.3 | 70-130 | 5.97 | 20 | |
| **Chromium** | **0.0348** | 0.0080 | mg/l | 0.0400 | 0.012 | 57.0 | 70-130 | 13.7 | 20 | M2 |
| **Batch: P1C1405 Extracted: 03/14/01** | | | | | | | | | | |
| **Blank Analyzed: 03/14/01 (P1C1405-BLK1)** | | | | | | | | | | |
| Iron | ND | 0.10 | mg/l | | | | | | | |
| Manganese | ND | 0.020 | mg/l | | | | | | | |
| Nickel | ND | 0.050 | mg/l | | | | | | | |
| **Blank Analyzed: 03/14/01 (P1C1405-BLK2)** | | | | | | | | | | |
| Iron | ND | 0.10 | mg/l | | | | | | | |
| Manganese | ND | 0.020 | mg/l | | | | | | | |
| Nickel | ND | 0.050 | mg/l | | | | | | | |

Beth Price For Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-015D-2-2.2

Report Number: PKC0135

Sampled: 03/06/01-03/07/01
Received: 03/07/01

METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1C1405 Extracted: 03/14/01** | | | | | | | | | | |
| **LCS Analyzed: 03/14/01 (P1C1405-BS1)** | | | | | | | | | | |
| Iron | 9.78 | 0.10 | mg/l | 10.0 | | 97.8 | 85-115 | | | |
| Manganese | 0.946 | 0.020 | mg/l | 1.00 | | 94.6 | 85-115 | | | |
| Nickel | 0.932 | 0.050 | mg/l | 1.00 | | 93.2 | 85-115 | | | |
| **LCS Dup Analyzed: 03/14/01 (P1C1405-BSD1)** | | | | | | | | | | |
| Iron | 9.81 | 0.10 | mg/l | 10.0 | | 98.1 | 85-115 | 0.306 | 20 | |
| Manganese | 0.948 | 0.020 | mg/l | 1.00 | | 94.8 | 85-115 | 0.211 | 20 | |
| Nickel | 0.926 | 0.050 | mg/l | 1.00 | | 92.6 | 85-115 | 0.646 | 20 | |
| **Matrix Spike Analyzed: 03/14/01 (P1C1405-MS1)** | | | | | **Source: PKC0135-01** | | | | | |
| Iron | 9.69 | 0.10 | mg/l | 10.0 | 0.15 | 95.4 | 70-130 | | | |
| Manganese | 0.928 | 0.020 | mg/l | 1.00 | ND | 92.3 | 70-130 | | | |
| Nickel | 0.873 | 0.050 | mg/l | 1.00 | ND | 87.3 | 70-130 | | | |
| **Matrix Spike Dup Analyzed: 03/14/01 (P1C1405-MSD1)** | | | | | **Source: PKC0135-01** | | | | | |
| Iron | 9.91 | 0.10 | mg/l | 10.0 | 0.15 | 97.6 | 70-130 | 2.24 | 20 | |
| Manganese | 0.948 | 0.020 | mg/l | 1.00 | ND | 94.3 | 70-130 | 2.13 | 20 | |
| Nickel | 0.894 | 0.050 | mg/l | 1.00 | ND | 89.4 | 70-130 | 2.38 | 20 | |

Beth Price For Julie M. Slocum
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-015D-2-2.2

Report Number: PKC0135

Sampled: 03/06/01-03/07/01
Received: 03/07/01

[redacted]

## DATA QUALIFIERS AND DEFINITIONS

| | |
|---|---|
| **L4** | The associated blank spike recovery was below method acceptance limits. See case narrative. |
| **M2** | Matrix spike recovery was low, the method control sample recovery was acceptable. |
| **M5** | Analyte concentration was determined by the method of standard addtion (MSA). |
| **R6** | LFB/LFBD RPD exceeded the method control limit. Recovery met acceptance criteria. |
| **ND** | Analyte NOT DETECTED at or above the reporting limit |
| **NR** | Not reported. |
| **RPD** | Relative Percent Difference |

Beth Price For Julie M. Slocum
Project Manager



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# CHAIN OF CUSTODY FORM



Client Name/Address: LAW

Project/PO Number: 7021-0.0150-2-7.7

Project Manager: Jim Clarke

Phone Number:

Sampler: Pat Cook

Fax Number:

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date | Sampling Time | Preservatives | Analysis Required: VOCs 8260B | Metals, Arsenic, Chromium, Iron, Nickel, Manganese | | | | | | | | Special Instructions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-1S | Water | | 2 | 3/6/01 | 1115 | | X | X | | | | PKC01355-01 | | | | |
| MW-1D | Water | | 2 | 3/6/01 | 1620 | | X | X | | | | | | | | 02 |
| MW-2D | | | 2 | 3/7/01 | 1630 | | X | X | | | | | | | | -03 |
| MW-3S | | | 2 | 3/7/01 | 1501 | | X | X | | | | | | | | 04 |
| MW-4S | | | 2 | 3/6/01 | 1420 | | X | X | | | | | | | | 05 |
| MW-5S | | | 2 | 3/7/01 | 1310 | | X | X | | | | | | | | 06 |
| MW-5D | | | 2 | 3/6/01 | 1550 | | X | X | | | | | | | | 07 |
| MW-6D | | | 2 | 3/6/01 | 0945 | | X | X | | | | | | | | 08 |
| MW-7D | | | 2 | 3/7/01 | 1430 | | X | X | | | | | | | | 09 |
| MW-AM-5S | | | 2 | 3/6/01 | 1315 | | X | X | | | | | | | | 10 |
| MW-10D | | | 2 | 3/7/01 | 1445 | | X | X | | | | | | | | 11 |
| | | | | | | | | | | | | | | | | 12 |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

Relinquished By: Pat Cook Date /Time: 3/7/01 1730

Relinquished By: Date /Time: 3/7/01

Relinquished By: Date /Time:

Received by: Jim Clarke Date /Time: 3/7/01 1730

Received by: Date /Time:

Received in Lab by: Date /Time: 3/7/01 1730

Turnaround Time: (Check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal ✓

Sample Integrity: (Check)
intact ✓ on ice ✓

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 702 11-1-050

Report Number: PKI0041

Sampled: 09/05/01
Received: 09/05/01
Issued: 10/1/01

# CASE NARRATIVE

| LABORATORY NUMBER | SAMPLE DESCRIPTION | SAMPLE MATRIX |
|---|---|---|
| PKI0041-01 | MW-AM-8S | Water |
| PKI0041-02 | MW-12 | Water |
| PKI0041-03 | MW-5D | Water |
| PKI0041-04 | MW-2D | Water |
| PKI0041-05 | MW-3S | Water |
| PKI0041-06 | MW-7D | Water |

SAMPLE RECEIPT: Samples were received intact, on ice, and with chain of custody documentation.

HOLDING TIMES: Holding times were met.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

OBSERVATIONS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

QA/QC CRITERIA: All analyses met method criteria.

EXPLANATION OF DATA QUALIFIERS: No further explanation of data qualifiers needed.

**DEL MAR ANALYTICAL, PHOENIX (AZ0426)**

Melissa Evans
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 702 11-1-050

Report Number: PKI0041

Sampled: 09/05/01
Received: 09/05/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKI0041-01 (MW-AM-8S - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P1I1502 | 20 | ND | 1 | 9/14/01 | 9/14/01 | |
| Benzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Bromobenzene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Bromochloromethane | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Bromodichloromethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Bromoform | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Bromomethane | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 2-Butanone (MEK) | EPA 8260B | P1I1502 | 10 | ND | 1 | 9/14/01 | 9/14/01 | |
| n-Butylbenzene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| sec-Butylbenzene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| tert-Butylbenzene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Carbon Disulfide | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Carbon tetrachloride | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Chlorobenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Chloroethane | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Chloroform | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Chloromethane | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 2-Chlorotoluene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 4-Chlorotoluene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Dibromochloromethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Dibromomethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2-Dichlorobenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,3-Dichlorobenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,4-Dichlorobenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Dichlorodifluoromethane | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,1-Dichloroethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2-Dichloroethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,1-Dichloroethene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| **cis-1,2-Dichloroethene** | EPA 8260B | P1I1502 | 2.0 | **9.5** | 1 | 9/14/01 | 9/14/01 | |
| trans-1,2-Dichloroethene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2-Dichloropropane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,3-Dichloropropane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 2,2-Dichloropropane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,1-Dichloropropene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| cis-1,3-Dichloropropene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| trans-1,3-Dichloropropene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Ethylbenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Hexachlorobutadiene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 2-Hexanone | EPA 8260B | P1I1502 | 10 | ND | 1 | 9/14/01 | 9/14/01 | |
| Iodomethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Isopropylbenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| p-Isopropyltoluene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |

Melissa Evans
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 702 11-1-050

Report Number: PKI0041

Sampled: 09/05/01
Received: 09/05/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKI0041-01 (MW-AM-8S - Water)** | | | | | | | | |
| Methylene chloride | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P1I1502 | 10 | ND | 1 | 9/14/01 | 9/14/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Naphthalene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| n-Propylbenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Styrene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| **Tetrachloroethene** | EPA 8260B | P1I1502 | 2.0 | **79** | 1 | 9/14/01 | 9/14/01 | |
| Toluene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,1,2-Trichloroethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| **Trichloroethene** | EPA 8260B | P1I1502 | 2.0 | **3.4** | 1 | 9/14/01 | 9/14/01 | |
| Trichlorofluoromethane | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P1I1502 | 10 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Vinyl acetate | EPA 8260B | P1I1502 | 25 | ND | 1 | 9/14/01 | 9/14/01 | |
| Vinyl chloride | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Xylenes, Total | EPA 8260B | P1I1502 | 10 | ND | 1 | 9/14/01 | 9/14/01 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *111 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *106 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *94.0 %* | | | | |

Melissa Evans
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 702 11-1-050

Report Number: PKI0041

Sampled: 09/05/01
Received: 09/05/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKI0041-02 (MW-12 - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P1I1502 | 20 | ND | 1 | 9/14/01 | 9/14/01 | |
| Benzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Bromobenzene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Bromochloromethane | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Bromodichloromethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Bromoform | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Bromomethane | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 2-Butanone (MEK) | EPA 8260B | P1I1502 | 10 | ND | 1 | 9/14/01 | 9/14/01 | |
| n-Butylbenzene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| sec-Butylbenzene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| tert-Butylbenzene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Carbon Disulfide | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Carbon tetrachloride | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Chlorobenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Chloroethane | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Chloroform | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Chloromethane | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 2-Chlorotoluene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 4-Chlorotoluene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Dibromochloromethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Dibromomethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2-Dichlorobenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,3-Dichlorobenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,4-Dichlorobenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Dichlorodifluoromethane | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,1-Dichloroethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2-Dichloroethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,1-Dichloroethene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| **cis-1,2-Dichloroethene** | EPA 8260B | P1I1502 | 2.0 | **9.8** | 1 | 9/14/01 | 9/14/01 | |
| trans-1,2-Dichloroethene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2-Dichloropropane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,3-Dichloropropane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 2,2-Dichloropropane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,1-Dichloropropene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| cis-1,3-Dichloropropene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| trans-1,3-Dichloropropene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Ethylbenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Hexachlorobutadiene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 2-Hexanone | EPA 8260B | P1I1502 | 10 | ND | 1 | 9/14/01 | 9/14/01 | |
| Iodomethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Isopropylbenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| p-Isopropyltoluene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |

Melissa Evans
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 702 11-1-050

Report Number: PKI0041

Sampled: 09/05/01
Received: 09/05/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKI0041-02 (MW-12 - Water)** | | | | | | | | |
| Methylene chloride | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P1I1502 | 10 | ND | 1 | 9/14/01 | 9/14/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Naphthalene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| n-Propylbenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Styrene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| **Tetrachloroethene** | EPA 8260B | P1I1502 | 2.0 | **81** | 1 | 9/14/01 | 9/14/01 | |
| Toluene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,1,2-Trichloroethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| **Trichloroethene** | EPA 8260B | P1I1502 | 2.0 | **3.6** | 1 | 9/14/01 | 9/14/01 | |
| Trichlorofluoromethane | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P1I1502 | 10 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Vinyl acetate | EPA 8260B | P1I1502 | 25 | ND | 1 | 9/14/01 | 9/14/01 | |
| Vinyl chloride | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Xylenes, Total | EPA 8260B | P1I1502 | 10 | ND | 1 | 9/14/01 | 9/14/01 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *112 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *105 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *92.8 %* | | | | |

Melissa Evans
Project Manager



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Law Engineering
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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 702 11-1-050

Report Number: PKI0041

Sampled: 09/05/01
Received: 09/05/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKI0041-03 (MW-5D - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P1I1502 | 20 | ND | 1 | 9/14/01 | 9/14/01 | |
| Benzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Bromobenzene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Bromochloromethane | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Bromodichloromethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Bromoform | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Bromomethane | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 2-Butanone (MEK) | EPA 8260B | P1I1502 | 10 | ND | 1 | 9/14/01 | 9/14/01 | |
| n-Butylbenzene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| sec-Butylbenzene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| tert-Butylbenzene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Carbon Disulfide | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Carbon tetrachloride | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Chlorobenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Chloroethane | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Chloroform | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Chloromethane | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 2-Chlorotoluene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 4-Chlorotoluene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Dibromochloromethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Dibromomethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2-Dichlorobenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,3-Dichlorobenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,4-Dichlorobenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Dichlorodifluoromethane | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,1-Dichloroethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2-Dichloroethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,1-Dichloroethene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| cis-1,2-Dichloroethene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| trans-1,2-Dichloroethene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2-Dichloropropane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,3-Dichloropropane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 2,2-Dichloropropane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,1-Dichloropropene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| cis-1,3-Dichloropropene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| trans-1,3-Dichloropropene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Ethylbenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Hexachlorobutadiene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 2-Hexanone | EPA 8260B | P1I1502 | 10 | ND | 1 | 9/14/01 | 9/14/01 | |
| Iodomethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Isopropylbenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| p-Isopropyltoluene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |

Melissa Evans
Project Manager



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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 702 11-1-050

Report Number: PKI0041

Sampled: 09/05/01
Received: 09/05/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKI0041-03 (MW-5D - Water)** | | | | | | | | |
| Methylene chloride | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P1I1502 | 10 | ND | 1 | 9/14/01 | 9/14/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Naphthalene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| n-Propylbenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Styrene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| **Tetrachloroethene** | EPA 8260B | P1I1502 | 2.0 | **9.2** | 1 | 9/14/01 | 9/14/01 | |
| Toluene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,1,2-Trichloroethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Trichloroethene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Trichlorofluoromethane | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P1I1502 | 10 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Vinyl acetate | EPA 8260B | P1I1502 | 25 | ND | 1 | 9/14/01 | 9/14/01 | |
| Vinyl chloride | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Xylenes, Total | EPA 8260B | P1I1502 | 10 | ND | 1 | 9/14/01 | 9/14/01 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *111 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *104 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *88.4 %* | | | | |

Melissa Evans
Project Manager



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4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 702 11-1-050

Report Number: PKI0041

Sampled: 09/05/01
Received: 09/05/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKI0041-04 (MW-2D - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P1I1502 | 20 | ND | 1 | 9/14/01 | 9/14/01 | |
| Benzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Bromobenzene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Bromochloromethane | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Bromodichloromethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Bromoform | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Bromomethane | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 2-Butanone (MEK) | EPA 8260B | P1I1502 | 10 | ND | 1 | 9/14/01 | 9/14/01 | |
| n-Butylbenzene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| sec-Butylbenzene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| tert-Butylbenzene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Carbon Disulfide | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Carbon tetrachloride | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Chlorobenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Chloroethane | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Chloroform | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Chloromethane | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 2-Chlorotoluene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 4-Chlorotoluene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Dibromochloromethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Dibromomethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2-Dichlorobenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,3-Dichlorobenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,4-Dichlorobenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Dichlorodifluoromethane | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,1-Dichloroethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2-Dichloroethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,1-Dichloroethene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| cis-1,2-Dichloroethene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| trans-1,2-Dichloroethene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2-Dichloropropane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,3-Dichloropropane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 2,2-Dichloropropane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,1-Dichloropropene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| cis-1,3-Dichloropropene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| trans-1,3-Dichloropropene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Ethylbenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Hexachlorobutadiene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 2-Hexanone | EPA 8260B | P1I1502 | 10 | ND | 1 | 9/14/01 | 9/14/01 | |
| Iodomethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Isopropylbenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| p-Isopropyltoluene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |

Melissa Evans
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 702 11-1-050

Report Number: PKI0041

Sampled: 09/05/01
Received: 09/05/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKI0041-04 (MW-2D - Water)** | | | | | | | | |
| Methylene chloride | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P1I1502 | 10 | ND | 1 | 9/14/01 | 9/14/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Naphthalene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| n-Propylbenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Styrene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Tetrachloroethene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Toluene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,1,2-Trichloroethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Trichloroethene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Trichlorofluoromethane | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P1I1502 | 10 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Vinyl acetate | EPA 8260B | P1I1502 | 25 | ND | 1 | 9/14/01 | 9/14/01 | |
| Vinyl chloride | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Xylenes, Total | EPA 8260B | P1I1502 | 10 | ND | 1 | 9/14/01 | 9/14/01 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *115 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *105 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *91.6 %* | | | | |

Melissa Evans
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 702 11-1-050

Report Number: PKI0041

Sampled: 09/05/01
Received: 09/05/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKI0041-05 (MW-3S - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P1I1502 | 20 | ND | 1 | 9/14/01 | 9/14/01 | |
| Benzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Bromobenzene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Bromochloromethane | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Bromodichloromethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Bromoform | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Bromomethane | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 2-Butanone (MEK) | EPA 8260B | P1I1502 | 10 | ND | 1 | 9/14/01 | 9/14/01 | |
| n-Butylbenzene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| sec-Butylbenzene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| tert-Butylbenzene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Carbon Disulfide | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Carbon tetrachloride | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Chlorobenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Chloroethane | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Chloroform | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Chloromethane | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 2-Chlorotoluene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 4-Chlorotoluene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Dibromochloromethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Dibromomethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2-Dichlorobenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,3-Dichlorobenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,4-Dichlorobenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Dichlorodifluoromethane | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,1-Dichloroethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2-Dichloroethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,1-Dichloroethene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| cis-1,2-Dichloroethene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| trans-1,2-Dichloroethene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2-Dichloropropane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,3-Dichloropropane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 2,2-Dichloropropane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,1-Dichloropropene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| cis-1,3-Dichloropropene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| trans-1,3-Dichloropropene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Ethylbenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Hexachlorobutadiene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 2-Hexanone | EPA 8260B | P1I1502 | 10 | ND | 1 | 9/14/01 | 9/14/01 | |
| Iodomethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Isopropylbenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| p-Isopropyltoluene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |

Melissa Evans
Project Manager



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4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 702 11-1-050

Report Number: PKI0041

Sampled: 09/05/01
Received: 09/05/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKI0041-05 (MW-3S - Water)** | | | | | | | | |
| Methylene chloride | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P1I1502 | 10 | ND | 1 | 9/14/01 | 9/14/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Naphthalene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| n-Propylbenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Styrene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Tetrachloroethene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Toluene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,1,2-Trichloroethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Trichloroethene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Trichlorofluoromethane | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P1I1502 | 10 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Vinyl acetate | EPA 8260B | P1I1502 | 25 | ND | 1 | 9/14/01 | 9/14/01 | |
| Vinyl chloride | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Xylenes, Total | EPA 8260B | P1I1502 | 10 | ND | 1 | 9/14/01 | 9/14/01 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *118 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *106 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *91.6 %* | | | | |

Melissa Evans
Project Manager



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4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 702 11-1-050

Report Number: PKI0041

Sampled: 09/05/01
Received: 09/05/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKI0041-06 (MW-7D - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P1I1502 | 20 | ND | 1 | 9/14/01 | 9/14/01 | |
| Benzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Bromobenzene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Bromochloromethane | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Bromodichloromethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | M1 |
| Bromoform | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Bromomethane | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 2-Butanone (MEK) | EPA 8260B | P1I1502 | 10 | ND | 1 | 9/14/01 | 9/14/01 | |
| n-Butylbenzene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| sec-Butylbenzene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| tert-Butylbenzene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Carbon Disulfide | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Carbon tetrachloride | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | M1 |
| Chlorobenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Chloroethane | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Chloroform | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Chloromethane | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 2-Chlorotoluene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 4-Chlorotoluene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Dibromochloromethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Dibromomethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2-Dichlorobenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,3-Dichlorobenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,4-Dichlorobenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Dichlorodifluoromethane | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,1-Dichloroethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2-Dichloroethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,1-Dichloroethene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| cis-1,2-Dichloroethene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | M1 |
| trans-1,2-Dichloroethene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2-Dichloropropane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,3-Dichloropropane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 2,2-Dichloropropane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,1-Dichloropropene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| cis-1,3-Dichloropropene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| trans-1,3-Dichloropropene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Ethylbenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Hexachlorobutadiene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 2-Hexanone | EPA 8260B | P1I1502 | 10 | ND | 1 | 9/14/01 | 9/14/01 | |
| Iodomethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Isopropylbenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| p-Isopropyltoluene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |

Melissa Evans
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 702 11-1-050
Report Number: PKI0041

Sampled: 09/05/01
Received: 09/05/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKI0041-06 (MW-7D - Water)** | | | | | | | | |
| Methylene chloride | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P1I1502 | 10 | ND | 1 | 9/14/01 | 9/14/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Naphthalene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| n-Propylbenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Styrene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| **Tetrachloroethene** | EPA 8260B | P1I1502 | 2.0 | **40** | 1 | 9/14/01 | 9/14/01 | |
| Toluene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | MI |
| 1,1,2-Trichloroethane | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Trichloroethene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Trichlorofluoromethane | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | MI |
| 1,2,3-Trichloropropane | EPA 8260B | P1I1502 | 10 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P1I1502 | 2.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Vinyl acetate | EPA 8260B | P1I1502 | 25 | ND | 1 | 9/14/01 | 9/14/01 | |
| Vinyl chloride | EPA 8260B | P1I1502 | 5.0 | ND | 1 | 9/14/01 | 9/14/01 | |
| Xylenes, Total | EPA 8260B | P1I1502 | 10 | ND | 1 | 9/14/01 | 9/14/01 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *118 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *106 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *92.0 %* | | | | |

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Melissa Evans
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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 702 11-1-050

Report Number: PKI0041

Sampled: 09/05/01
Received: 09/05/01

## TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKI0041-01 (MW-AM-8S - Water)** | | | | | | | | |
| Arsenic | EPA 200.7 | P1I0705 | 0.050 | ND | 1 | 9/7/01 | 9/9/01 | |
| **Chromium** | EPA 200.7 | P1I0705 | 0.010 | **0.22** | 1 | 9/7/01 | 9/9/01 | |
| **Iron** | EPA 200.7 | P1I0705 | 0.20 | **3.9** | 1 | 9/7/01 | 9/9/01 | |
| **Manganese** | EPA 200.7 | P1I0705 | 0.020 | **0.43** | 1 | 9/7/01 | 9/9/01 | |
| **Nickel** | EPA 200.7 | P1I0705 | 0.050 | **0.057** | 1 | 9/7/01 | 9/9/01 | |
| **Sample ID: PKI0041-02 (MW-12 - Water)** | | | | | | | | |
| **Arsenic** | EPA 200.7 | P1I0705 | 0.050 | **0.096** | 1 | 9/7/01 | 9/9/01 | |
| **Chromium** | EPA 200.7 | P1I0705 | 0.010 | **0.44** | 1 | 9/7/01 | 9/9/01 | |
| **Iron** | EPA 200.7 | P1I0705 | 0.20 | **5.3** | 1 | 9/7/01 | 9/9/01 | |
| **Manganese** | EPA 200.7 | P1I0705 | 0.020 | **0.54** | 1 | 9/7/01 | 9/9/01 | |
| **Nickel** | EPA 200.7 | P1I0705 | 0.050 | **0.070** | 1 | 9/7/01 | 9/9/01 | |
| **Sample ID: PKI0041-03 (MW-5D - Water)** | | | | | | | | |
| Arsenic | EPA 200.7 | P1I0624 | 0.050 | ND | 1 | 9/6/01 | 9/10/01 | |
| Chromium | EPA 200.7 | P1I0624 | 0.010 | ND | 1 | 9/6/01 | 9/10/01 | |
| Iron | EPA 200.7 | P1I0624 | 0.20 | ND | 1 | 9/6/01 | 9/10/01 | |
| Manganese | EPA 200.7 | P1I0624 | 0.020 | ND | 1 | 9/6/01 | 9/10/01 | |
| Nickel | EPA 200.7 | P1I0624 | 0.050 | ND | 1 | 9/6/01 | 9/10/01 | |
| **Sample ID: PKI0041-04 (MW-2D - Water)** | | | | | | | | |
| Arsenic | EPA 200.7 | P1I0624 | 0.050 | ND | 1 | 9/6/01 | 9/10/01 | |
| Chromium | EPA 200.7 | P1I0624 | 0.010 | ND | 1 | 9/6/01 | 9/10/01 | |
| Iron | EPA 200.7 | P1I0624 | 0.20 | ND | 1 | 9/6/01 | 9/10/01 | |
| Manganese | EPA 200.7 | P1I0624 | 0.020 | ND | 1 | 9/6/01 | 9/10/01 | |
| Nickel | EPA 200.7 | P1I0624 | 0.050 | ND | 1 | 9/6/01 | 9/10/01 | |

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Attention: Jim Clarke

Client Project ID: 702 11-1-050

Report Number: PKI0041

Sampled: 09/05/01
Received: 09/05/01

## TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKI0041-05 (MW-3S - Water)** | | | | | | | | |
| Arsenic | EPA 200.7 | P1I1115 | 0.050 | ND | 1 | 9/11/01 | 9/11/01 | |
| Chromium | EPA 200.7 | P1I1115 | 0.010 | ND | 1 | 9/11/01 | 9/11/01 | |
| Iron | EPA 200.7 | P1I1115 | 0.20 | ND | 1 | 9/11/01 | 9/11/01 | |
| Manganese | EPA 200.7 | P1I1115 | 0.020 | ND | 1 | 9/11/01 | 9/11/01 | |
| Nickel | EPA 200.7 | P1I1115 | 0.050 | ND | 1 | 9/11/01 | 9/11/01 | |
| **Sample ID: PKI0041-06 (MW-7D - Water)** | | | | | | | | |
| Arsenic | EPA 200.7 | P1I1115 | 0.050 | ND | 1 | 9/11/01 | 9/11/01 | |
| Chromium | EPA 200.7 | P1I1115 | 0.010 | ND | 1 | 9/11/01 | 9/11/01 | |
| **Iron** | EPA 200.7 | P1I1115 | 0.20 | **0.22** | 1 | 9/11/01 | 9/11/01 | |
| Manganese | EPA 200.7 | P1I1115 | 0.020 | ND | 1 | 9/11/01 | 9/11/01 | |
| Nickel | EPA 200.7 | P1I1115 | 0.050 | ND | 1 | 9/11/01 | 9/11/01 | |

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Client Project ID: 702 11-1-050

Report Number: PKI0041

Sampled: 09/05/01
Received: 09/05/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1I1502 Extracted: 09/14/01** | | | | | | | | | | |
| **Blank Analyzed: 09/14/01 (P1I1502-BLK1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | |
| Benzene | ND | 2.0 | ug/l | | | | | | | |
| Bromobenzene | ND | 5.0 | ug/l | | | | | | | |
| Bromochloromethane | ND | 5.0 | ug/l | | | | | | | |
| Bromodichloromethane | ND | 2.0 | ug/l | | | | | | | |
| Bromoform | ND | 5.0 | ug/l | | | | | | | |
| Bromomethane | ND | 5.0 | ug/l | | | | | | | |
| 2-Butanone (MEK) | ND | 10 | ug/l | | | | | | | |
| n-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| sec-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| tert-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| Carbon Disulfide | ND | 5.0 | ug/l | | | | | | | |
| Carbon tetrachloride | ND | 5.0 | ug/l | | | | | | | |
| Chlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| Chloroethane | ND | 5.0 | ug/l | | | | | | | |
| Chloroform | ND | 2.0 | ug/l | | | | | | | |
| Chloromethane | ND | 5.0 | ug/l | | | | | | | |
| 2-Chlorotoluene | ND | 5.0 | ug/l | | | | | | | |
| 4-Chlorotoluene | ND | 5.0 | ug/l | | | | | | | |
| Dibromochloromethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/l | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 2.0 | ug/l | | | | | | | |
| Dibromomethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| Dichlorodifluoromethane | ND | 5.0 | ug/l | | | | | | | |
| 1,1-Dichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,1-Dichloroethene | ND | 5.0 | ug/l | | | | | | | |
| cis-1,2-Dichloroethene | ND | 2.0 | ug/l | | | | | | | |
| trans-1,2-Dichloroethene | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,3-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 2,2-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |

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Attention: Jim Clarke

Client Project ID: 702 11-1-050

Report Number: PKI0041

Sampled: 09/05/01
Received: 09/05/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1I1502 Extracted: 09/14/01** | | | | | | | | | | |
| **Blank Analyzed: 09/14/01 (P1I1502-BLK1)** | | | | | | | | | | |
| 1,1-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| cis-1,3-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| Ethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 5.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 10 | ug/l | | | | | | | |
| Iodomethane | ND | 2.0 | ug/l | | | | | | | |
| Isopropylbenzene | ND | 2.0 | ug/l | | | | | | | |
| p-Isopropyltoluene | ND | 2.0 | ug/l | | | | | | | |
| Methylene chloride | ND | 5.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 5.0 | ug/l | | | | | | | |
| Naphthalene | ND | 5.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Styrene | ND | 2.0 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/l | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 2.0 | ug/l | | | | | | | |
| Toluene | ND | 2.0 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 5.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,1,2-Trichloroethane | ND | 2.0 | ug/l | | | | | | | |
| Trichloroethene | ND | 2.0 | ug/l | | | | | | | |
| Trichlorofluoromethane | ND | 5.0 | ug/l | | | | | | | |
| 1,2,3-Trichloropropane | ND | 10 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Vinyl acetate | ND | 25 | ug/l | | | | | | | |
| Vinyl chloride | ND | 5.0 | ug/l | | | | | | | |
| Xylenes, Total | ND | 10 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *28.0* | | *ug/l* | *25.0* | | *112* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *26.7* | | *ug/l* | *25.0* | | *107* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *24.3* | | *ug/l* | *25.0* | | *97.2* | *80-120* | | | |

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Attention: Jim Clarke

Client Project ID: 702 11-1-050

Report Number: PKI0041

Sampled: 09/05/01
Received: 09/05/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1I1502 Extracted: 09/14/01** | | | | | | | | | | |
| **LCS Analyzed: 09/14/01 (P1I1502-BS1)** | | | | | | | | | | |
| Acetone | 21.4 | 20 | ug/l | 25.0 | | 85.6 | 30-200 | | | |
| Benzene | 22.3 | 2.0 | ug/l | 25.0 | | 89.2 | 80-120 | | | |
| Bromobenzene | 25.3 | 5.0 | ug/l | 25.0 | | 101 | 80-120 | | | |
| Bromochloromethane | 27.5 | 5.0 | ug/l | 25.0 | | 110 | 80-120 | | | |
| Bromodichloromethane | 28.4 | 2.0 | ug/l | 25.0 | | 114 | 80-130 | | | |
| Bromoform | 31.8 | 5.0 | ug/l | 25.0 | | 127 | 60-140 | | | |
| Bromomethane | 28.7 | 5.0 | ug/l | 25.0 | | 115 | 60-150 | | | |
| 2-Butanone (MEK) | 18.7 | 10 | ug/l | 25.0 | | 74.8 | 30-185 | | | |
| n-Butylbenzene | 22.9 | 5.0 | ug/l | 25.0 | | 91.6 | 75-130 | | | |
| sec-Butylbenzene | 23.1 | 5.0 | ug/l | 25.0 | | 92.4 | 80-125 | | | |
| tert-Butylbenzene | 23.3 | 5.0 | ug/l | 25.0 | | 93.2 | 80-120 | | | |
| Carbon Disulfide | 20.7 | 5.0 | ug/l | 25.0 | | 82.8 | 65-120 | | | |
| Carbon tetrachloride | 30.7 | 5.0 | ug/l | 25.0 | | 123 | 75-150 | | | |
| Chlorobenzene | 26.0 | 2.0 | ug/l | 25.0 | | 104 | 80-120 | | | |
| Chloroethane | 22.5 | 5.0 | ug/l | 25.0 | | 90.0 | 80-125 | | | |
| Chloroform | 26.5 | 2.0 | ug/l | 25.0 | | 106 | 80-120 | | | |
| Chloromethane | 20.0 | 5.0 | ug/l | 25.0 | | 80.0 | 60-125 | | | |
| 2-Chlorotoluene | 23.3 | 5.0 | ug/l | 25.0 | | 93.2 | 80-120 | | | |
| 4-Chlorotoluene | 23.8 | 5.0 | ug/l | 25.0 | | 95.2 | 80-120 | | | |
| Dibromochloromethane | 31.8 | 2.0 | ug/l | 25.0 | | 127 | 70-150 | | | |
| 1,2-Dibromo-3-chloropropane | 26.8 | 5.0 | ug/l | 25.0 | | 107 | 50-145 | | | |
| 1,2-Dibromoethane (EDB) | 27.5 | 2.0 | ug/l | 25.0 | | 110 | 75-120 | | | |
| Dibromomethane | 27.1 | 2.0 | ug/l | 25.0 | | 108 | 80-120 | | | |
| 1,2-Dichlorobenzene | 25.5 | 2.0 | ug/l | 25.0 | | 102 | 80-120 | | | |
| 1,3-Dichlorobenzene | 24.8 | 2.0 | ug/l | 25.0 | | 99.2 | 80-120 | | | |
| 1,4-Dichlorobenzene | 25.6 | 2.0 | ug/l | 25.0 | | 102 | 80-120 | | | |
| Dichlorodifluoromethane | 28.6 | 5.0 | ug/l | 25.0 | | 114 | 25-140 | | | |
| 1,1-Dichloroethane | 24.0 | 2.0 | ug/l | 25.0 | | 96.0 | 80-120 | | | |
| 1,2-Dichloroethane | 26.9 | 2.0 | ug/l | 25.0 | | 108 | 80-120 | | | |
| 1,1-Dichloroethene | 25.1 | 5.0 | ug/l | 25.0 | | 100 | 80-120 | | | |
| cis-1,2-Dichloroethene | 24.8 | 2.0 | ug/l | 25.0 | | 99.2 | 80-120 | | | |
| trans-1,2-Dichloroethene | 24.6 | 2.0 | ug/l | 25.0 | | 98.4 | 80-120 | | | |
| 1,2-Dichloropropane | 23.1 | 2.0 | ug/l | 25.0 | | 92.4 | 80-120 | | | |
| 1,3-Dichloropropane | 25.4 | 2.0 | ug/l | 25.0 | | 102 | 80-120 | | | |
| 2,2-Dichloropropane | 25.7 | 2.0 | ug/l | 25.0 | | 103 | 75-135 | | | |
| 1,1-Dichloropropene | 24.2 | 2.0 | ug/l | 25.0 | | 96.8 | 80-120 | | | |

Melissa Evans
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 702 11-1-050

Report Number: PKI0041

Sampled: 09/05/01
Received: 09/05/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1I1502 Extracted: 09/14/01** | | | | | | | | | | |
| **LCS Analyzed: 09/14/01 (P1I1502-BS1)** | | | | | | | | | | |
| **cis-1,3-Dichloropropene** | **25.1** | 2.0 | ug/l | 25.0 | | 100 | 80-120 | | | |
| **trans-1,3-Dichloropropene** | **25.6** | 2.0 | ug/l | 25.0 | | 102 | 80-120 | | | |
| **Ethylbenzene** | **25.0** | 2.0 | ug/l | 25.0 | | 100 | 80-120 | | | |
| **Hexachlorobutadiene** | **22.6** | 5.0 | ug/l | 25.0 | | 90.4 | 60-145 | | | |
| **2-Hexanone** | **22.9** | 10 | ug/l | 25.0 | | 91.6 | 50-170 | | | |
| **Iodomethane** | **27.0** | 2.0 | ug/l | 25.0 | | 108 | 40-155 | | | |
| **Isopropylbenzene** | **25.8** | 2.0 | ug/l | 25.0 | | 103 | 80-120 | | | |
| **p-Isopropyltoluene** | **22.6** | 2.0 | ug/l | 25.0 | | 90.4 | 80-120 | | | |
| **Methylene chloride** | **23.7** | 5.0 | ug/l | 25.0 | | 94.8 | 80-120 | | | |
| **4-Methyl-2-pentanone (MIBK)** | **23.3** | 10 | ug/l | 25.0 | | 93.2 | 70-140 | | | |
| **Methyl-tert-butyl Ether (MTBE)** | **21.8** | 5.0 | ug/l | 25.0 | | 87.2 | 75-135 | | | |
| **Naphthalene** | **24.2** | 5.0 | ug/l | 25.0 | | 96.8 | 70-130 | | | |
| **n-Propylbenzene** | **24.0** | 2.0 | ug/l | 25.0 | | 96.0 | 80-120 | | | |
| **Styrene** | **25.5** | 2.0 | ug/l | 25.0 | | 102 | 80-120 | | | |
| **1,1,1,2-Tetrachloroethane** | **29.5** | 5.0 | ug/l | 25.0 | | 118 | 65-150 | | | |
| **1,1,2,2-Tetrachloroethane** | **24.5** | 2.0 | ug/l | 25.0 | | 98.0 | 70-130 | | | |
| **Tetrachloroethene** | **26.6** | 2.0 | ug/l | 25.0 | | 106 | 80-125 | | | |
| **Toluene** | **23.8** | 2.0 | ug/l | 25.0 | | 95.2 | 80-120 | | | |
| **1,2,3-Trichlorobenzene** | **22.6** | 5.0 | ug/l | 25.0 | | 90.4 | 75-125 | | | |
| **1,2,4-Trichlorobenzene** | **23.6** | 5.0 | ug/l | 25.0 | | 94.4 | 80-120 | | | |
| **1,1,1-Trichloroethane** | **27.1** | 2.0 | ug/l | 25.0 | | 108 | 80-120 | | | |
| **1,1,2-Trichloroethane** | **26.3** | 2.0 | ug/l | 25.0 | | 105 | 80-120 | | | |
| **Trichloroethene** | **25.4** | 2.0 | ug/l | 25.0 | | 102 | 80-120 | | | |
| **Trichlorofluoromethane** | **29.4** | 5.0 | ug/l | 25.0 | | 118 | 75-150 | | | |
| **1,2,3-Trichloropropane** | **25.2** | 10 | ug/l | 25.0 | | 101 | 65-135 | | | |
| **1,2,4-Trimethylbenzene** | **24.5** | 2.0 | ug/l | 25.0 | | 98.0 | 80-120 | | | |
| **1,3,5-Trimethylbenzene** | **23.7** | 2.0 | ug/l | 25.0 | | 94.8 | 80-120 | | | |
| Vinyl acetate | ND | 25 | ug/l | 25.0 | | 99.2 | 40-120 | | | |
| **Vinyl chloride** | **24.1** | 5.0 | ug/l | 25.0 | | 96.4 | 80-120 | | | |
| **Xylenes, Total** | **74.8** | 10 | ug/l | 75.0 | | 99.7 | 80-120 | | | |
| *Surrogate: Dibromofluoromethane* | *28.3* | | *ug/l* | *25.0* | | *113* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *26.7* | | *ug/l* | *25.0* | | *107* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *24.4* | | *ug/l* | *25.0* | | *97.6* | *80-120* | | | |

Melissa Evans
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 702 11-1-050

Report Number: PKI0041

Sampled: 09/05/01
Received: 09/05/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1I1502 Extracted: 09/14/01** | | | | | | | | | | |
| **Matrix Spike Analyzed: 09/14/01 (P1I1502-MS1)** | | | | | **Source: PKI0041-06** | | | | | |
| Acetone | ND | 20 | ug/l | 25.0 | ND | 48.0 | 5-200 | | | |
| **Benzene** | **25.6** | 2.0 | ug/l | 25.0 | ND | 102 | 80-120 | | | |
| **Bromobenzene** | **26.0** | 5.0 | ug/l | 25.0 | ND | 104 | 80-120 | | | |
| **Bromochloromethane** | **30.7** | 5.0 | ug/l | 25.0 | ND | 123 | 60-135 | | | |
| **Bromodichloromethane** | **30.5** | 2.0 | ug/l | 25.0 | ND | 122 | 80-120 | | | M1 |
| **Bromoform** | **28.3** | 5.0 | ug/l | 25.0 | ND | 113 | 40-140 | | | |
| **Bromomethane** | **29.9** | 5.0 | ug/l | 25.0 | ND | 120 | 25-165 | | | |
| **2-Butanone (MEK)** | **11.5** | 10 | ug/l | 25.0 | ND | 46.0 | 10-160 | | | |
| **n-Butylbenzene** | **24.9** | 5.0 | ug/l | 25.0 | ND | 99.6 | 75-135 | | | |
| **sec-Butylbenzene** | **24.8** | 5.0 | ug/l | 25.0 | ND | 99.2 | 80-135 | | | |
| **tert-Butylbenzene** | **24.7** | 5.0 | ug/l | 25.0 | ND | 98.8 | 80-125 | | | |
| **Carbon Disulfide** | **16.9** | 5.0 | ug/l | 25.0 | ND | 67.6 | 20-120 | | | |
| **Carbon tetrachloride** | **36.5** | 5.0 | ug/l | 25.0 | ND | 146 | 80-145 | | | M1 |
| **Chlorobenzene** | **28.6** | 2.0 | ug/l | 25.0 | ND | 114 | 80-120 | | | |
| **Chloroethane** | **24.7** | 5.0 | ug/l | 25.0 | ND | 98.8 | 30-150 | | | |
| **Chloroform** | **30.3** | 2.0 | ug/l | 25.0 | ND | 121 | 80-125 | | | |
| **Chloromethane** | **21.2** | 5.0 | ug/l | 25.0 | ND | 84.8 | 15-140 | | | |
| **2-Chlorotoluene** | **24.6** | 5.0 | ug/l | 25.0 | ND | 98.4 | 80-124 | | | |
| **4-Chlorotoluene** | **25.0** | 5.0 | ug/l | 25.0 | ND | 100 | 80-125 | | | |
| **Dibromochloromethane** | **32.8** | 2.0 | ug/l | 25.0 | ND | 131 | 75-135 | | | |
| **1,2-Dibromo-3-chloropropane** | **19.9** | 5.0 | ug/l | 25.0 | ND | 79.6 | 25-185 | | | |
| **1,2-Dibromoethane (EDB)** | **27.2** | 2.0 | ug/l | 25.0 | ND | 109 | 45-145 | | | |
| **Dibromomethane** | **28.2** | 2.0 | ug/l | 25.0 | ND | 113 | 55-140 | | | |
| **1,2-Dichlorobenzene** | **25.2** | 2.0 | ug/l | 25.0 | ND | 101 | 80-120 | | | |
| **1,3-Dichlorobenzene** | **25.1** | 2.0 | ug/l | 25.0 | ND | 100 | 80-120 | | | |
| **1,4-Dichlorobenzene** | **26.4** | 2.0 | ug/l | 25.0 | ND | 106 | 80-120 | | | |
| **Dichlorodifluoromethane** | **33.4** | 5.0 | ug/l | 25.0 | ND | 134 | 25-145 | | | |
| **1,1-Dichloroethane** | **27.8** | 2.0 | ug/l | 25.0 | ND | 111 | 75-120 | | | |
| **1,2-Dichloroethane** | **29.4** | 2.0 | ug/l | 25.0 | ND | 118 | 60-135 | | | |
| **1,1-Dichloroethene** | **22.3** | 5.0 | ug/l | 25.0 | ND | 89.2 | 55-120 | | | |
| **cis-1,2-Dichloroethene** | **30.4** | 2.0 | ug/l | 25.0 | ND | 122 | 75-120 | | | M1 |
| **trans-1,2-Dichloroethene** | **28.4** | 2.0 | ug/l | 25.0 | ND | 114 | 65-120 | | | |
| **1,2-Dichloropropane** | **25.2** | 2.0 | ug/l | 25.0 | ND | 101 | 80-125 | | | |
| **1,3-Dichloropropane** | **25.8** | 2.0 | ug/l | 25.0 | ND | 103 | 55-140 | | | |
| **2,2-Dichloropropane** | **31.4** | 2.0 | ug/l | 25.0 | ND | 126 | 45-165 | | | |
| **1,1-Dichloropropene** | **26.7** | 2.0 | ug/l | 25.0 | ND | 107 | 80-120 | | | |

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Project Manager



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Law Engineering
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Attention: Jim Clarke

Client Project ID: 702 11-1-050

Report Number: PKI0041

Sampled: 09/05/01
Received: 09/05/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1I1502 Extracted: 09/14/01** | | | | | | | | | | |
| **Matrix Spike Analyzed: 09/14/01 (P1I1502-MS1)** | | | | | **Source: PKI0041-06** | | | | | |
| **cis-1,3-Dichloropropene** | **25.7** | 2.0 | ug/l | 25.0 | ND | 103 | 80-120 | | | |
| **trans-1,3-Dichloropropene** | **25.3** | 2.0 | ug/l | 25.0 | ND | 101 | 70-120 | | | |
| **Ethylbenzene** | **27.6** | 2.0 | ug/l | 25.0 | ND | 110 | 80-120 | | | |
| **Hexachlorobutadiene** | **30.8** | 5.0 | ug/l | 25.0 | ND | 123 | 80-135 | | | |
| **2-Hexanone** | **16.4** | 10 | ug/l | 25.0 | ND | 65.6 | 25-185 | | | |
| **Iodomethane** | **22.4** | 2.0 | ug/l | 25.0 | ND | 89.6 | 30-155 | | | |
| **Isopropylbenzene** | **28.2** | 2.0 | ug/l | 25.0 | ND | 113 | 80-125 | | | |
| **p-Isopropyltoluene** | **24.1** | 2.0 | ug/l | 25.0 | ND | 96.4 | 80-125 | | | |
| **Methylene chloride** | **17.8** | 5.0 | ug/l | 25.0 | ND | 71.2 | 55-125 | | | |
| **4-Methyl-2-pentanone (MIBK)** | **18.8** | 10 | ug/l | 25.0 | ND | 75.2 | 10-175 | | | |
| **Methyl-tert-butyl Ether (MTBE)** | **23.6** | 5.0 | ug/l | 25.0 | ND | 94.4 | 55-135 | | | |
| **Naphthalene** | **18.2** | 5.0 | ug/l | 25.0 | ND | 72.8 | 15-160 | | | |
| **n-Propylbenzene** | **25.5** | 2.0 | ug/l | 25.0 | ND | 102 | 80-130 | | | |
| **Styrene** | **24.5** | 2.0 | ug/l | 25.0 | ND | 98.0 | 60-135 | | | |
| **1,1,1,2-Tetrachloroethane** | **32.0** | 5.0 | ug/l | 25.0 | ND | 128 | 80-135 | | | |
| **1,1,2,2-Tetrachloroethane** | **22.8** | 2.0 | ug/l | 25.0 | ND | 91.2 | 35-150 | | | |
| **Tetrachloroethene** | **66.9** | 2.0 | ug/l | 25.0 | 40 | 108 | 80-120 | | | |
| **Toluene** | **26.3** | 2.0 | ug/l | 25.0 | ND | 105 | 80-120 | | | |
| **1,2,3-Trichlorobenzene** | **19.6** | 5.0 | ug/l | 25.0 | ND | 78.4 | 45-145 | | | |
| **1,2,4-Trichlorobenzene** | **21.8** | 5.0 | ug/l | 25.0 | ND | 87.2 | 65-130 | | | |
| **1,1,1-Trichloroethane** | **32.6** | 2.0 | ug/l | 25.0 | ND | 130 | 80-120 | | | M1 |
| **1,1,2-Trichloroethane** | **26.6** | 2.0 | ug/l | 25.0 | ND | 106 | 55-145 | | | |
| **Trichloroethene** | **29.3** | 2.0 | ug/l | 25.0 | ND | 117 | 80-120 | | | |
| **Trichlorofluoromethane** | **37.3** | 5.0 | ug/l | 25.0 | ND | 149 | 70-145 | | | M1 |
| **1,2,3-Trichloropropane** | **21.6** | 10 | ug/l | 25.0 | ND | 86.4 | 20-160 | | | |
| **1,2,4-Trimethylbenzene** | **25.0** | 2.0 | ug/l | 25.0 | ND | 100 | 70-135 | | | |
| **1,3,5-Trimethylbenzene** | **24.6** | 2.0 | ug/l | 25.0 | ND | 98.4 | 80-125 | | | |
| **Vinyl acetate** | ND | 25 | ug/l | 25.0 | ND | 83.6 | 25-130 | | | |
| **Vinyl chloride** | **33.8** | 5.0 | ug/l | 25.0 | ND | 135 | 25-135 | | | |
| **Xylenes, Total** | **82.4** | 10 | ug/l | 75.0 | ND | 110 | 80-120 | | | |
| *Surrogate: Dibromofluoromethane* | *28.8* | | *ug/l* | *25.0* | | *115* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *26.4* | | *ug/l* | *25.0* | | *106* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *23.6* | | *ug/l* | *25.0* | | *94.4* | *80-120* | | | |

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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 702 11-1-050

Report Number: PKI0041

Sampled: 09/05/01
Received: 09/05/01

METHOD BLANK QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1I1502 Extracted: 09/14/01** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 09/14/01 (P1I1502-MSD1)** | | | | | **Source: PKI0041-06** | | | | | |
| Acetone | ND | 20 | ug/l | 25.0 | ND | 48.0 | 5-200 | 0.00 | 20 | |
| **Benzene** | **25.2** | 2.0 | ug/l | 25.0 | ND | 101 | 80-120 | 1.57 | 20 | |
| **Bromobenzene** | **25.1** | 5.0 | ug/l | 25.0 | ND | 100 | 80-120 | 3.52 | 20 | |
| **Bromochloromethane** | **29.3** | 5.0 | ug/l | 25.0 | ND | 117 | 60-135 | 4.67 | 20 | |
| **Bromodichloromethane** | **29.8** | 2.0 | ug/l | 25.0 | ND | 119 | 80-120 | 2.32 | 20 | |
| **Bromoform** | **27.1** | 5.0 | ug/l | 25.0 | ND | 108 | 40-140 | 4.33 | 20 | |
| **Bromomethane** | **29.8** | 5.0 | ug/l | 25.0 | ND | 119 | 25-165 | 0.335 | 20 | |
| **2-Butanone (MEK)** | **11.6** | 10 | ug/l | 25.0 | ND | 46.4 | 10-160 | 0.866 | 20 | |
| **n-Butylbenzene** | **24.1** | 5.0 | ug/l | 25.0 | ND | 96.4 | 75-135 | 3.27 | 20 | |
| **sec-Butylbenzene** | **24.5** | 5.0 | ug/l | 25.0 | ND | 98.0 | 80-135 | 1.22 | 20 | |
| **tert-Butylbenzene** | **24.0** | 5.0 | ug/l | 25.0 | ND | 96.0 | 80-125 | 2.87 | 20 | |
| **Carbon Disulfide** | **23.2** | 5.0 | ug/l | 25.0 | ND | 92.8 | 20-120 | 31.4 | 20 | R4 |
| **Carbon tetrachloride** | **35.2** | 5.0 | ug/l | 25.0 | ND | 141 | 80-145 | 3.63 | 20 | |
| **Chlorobenzene** | **28.5** | 2.0 | ug/l | 25.0 | ND | 114 | 80-120 | 0.350 | 20 | |
| **Chloroethane** | **24.1** | 5.0 | ug/l | 25.0 | ND | 96.4 | 30-150 | 2.46 | 20 | |
| **Chloroform** | **29.6** | 2.0 | ug/l | 25.0 | ND | 118 | 80-125 | 2.34 | 20 | |
| **Chloromethane** | **21.4** | 5.0 | ug/l | 25.0 | ND | 85.6 | 15-140 | 0.939 | 20 | |
| **2-Chlorotoluene** | **24.6** | 5.0 | ug/l | 25.0 | ND | 98.4 | 80-124 | 0.00 | 20 | |
| **4-Chlorotoluene** | **24.6** | 5.0 | ug/l | 25.0 | ND | 98.4 | 80-125 | 1.61 | 20 | |
| **Dibromochloromethane** | **31.7** | 2.0 | ug/l | 25.0 | ND | 127 | 75-135 | 3.41 | 20 | |
| **1,2-Dibromo-3-chloropropane** | **18.2** | 5.0 | ug/l | 25.0 | ND | 72.8 | 25-185 | 8.92 | 20 | |
| **1,2-Dibromoethane (EDB)** | **26.0** | 2.0 | ug/l | 25.0 | ND | 104 | 45-145 | 4.51 | 20 | |
| **Dibromomethane** | **27.0** | 2.0 | ug/l | 25.0 | ND | 108 | 55-140 | 4.35 | 20 | |
| **1,2-Dichlorobenzene** | **24.9** | 2.0 | ug/l | 25.0 | ND | 99.6 | 80-120 | 1.20 | 20 | |
| **1,3-Dichlorobenzene** | **25.1** | 2.0 | ug/l | 25.0 | ND | 100 | 80-120 | 0.00 | 20 | |
| **1,4-Dichlorobenzene** | **25.9** | 2.0 | ug/l | 25.0 | ND | 104 | 80-120 | 1.91 | 20 | |
| **Dichlorodifluoromethane** | **32.0** | 5.0 | ug/l | 25.0 | ND | 128 | 25-145 | 4.28 | 20 | |
| **1,1-Dichloroethane** | **27.2** | 2.0 | ug/l | 25.0 | ND | 109 | 75-120 | 2.18 | 20 | |
| **1,2-Dichloroethane** | **28.2** | 2.0 | ug/l | 25.0 | ND | 113 | 60-135 | 4.17 | 20 | |
| **1,1-Dichloroethene** | **22.4** | 5.0 | ug/l | 25.0 | ND | 89.6 | 55-120 | 0.447 | 20 | |
| **cis-1,2-Dichloroethene** | **29.2** | 2.0 | ug/l | 25.0 | ND | 117 | 75-120 | 4.03 | 20 | |
| **trans-1,2-Dichloroethene** | **27.2** | 2.0 | ug/l | 25.0 | ND | 109 | 65-120 | 4.32 | 20 | |
| **1,2-Dichloropropane** | **24.6** | 2.0 | ug/l | 25.0 | ND | 98.4 | 80-125 | 2.41 | 20 | |
| **1,3-Dichloropropane** | **25.7** | 2.0 | ug/l | 25.0 | ND | 103 | 55-140 | 0.388 | 20 | |
| **2,2-Dichloropropane** | **30.2** | 2.0 | ug/l | 25.0 | ND | 121 | 45-165 | 3.90 | 20 | |
| **1,1-Dichloropropene** | **26.2** | 2.0 | ug/l | 25.0 | ND | 105 | 80-120 | 1.89 | 20 | |

Melissa Evans
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 702 11-1-050

Report Number: PKI0041

Sampled: 09/05/01
Received: 09/05/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1I1502 Extracted: 09/14/01** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 09/14/01 (P1I1502-MSD1)** | | | | | **Source: PKI0041-06** | | | | | |
| **cis-1,3-Dichloropropene** | **24.9** | 2.0 | ug/l | 25.0 | ND | 99.6 | 80-120 | 3.16 | 20 | |
| **trans-1,3-Dichloropropene** | **25.1** | 2.0 | ug/l | 25.0 | ND | 100 | 70-120 | 0.794 | 20 | |
| **Ethylbenzene** | **27.2** | 2.0 | ug/l | 25.0 | ND | 109 | 80-120 | 1.46 | 20 | |
| **Hexachlorobutadiene** | **29.9** | 5.0 | ug/l | 25.0 | ND | 120 | 80-135 | 2.97 | 20 | |
| **2-Hexanone** | **15.4** | 10 | ug/l | 25.0 | ND | 61.6 | 25-185 | 6.29 | 20 | |
| **Iodomethane** | **21.9** | 2.0 | ug/l | 25.0 | ND | 87.6 | 30-155 | 2.26 | 20 | |
| **Isopropylbenzene** | **27.2** | 2.0 | ug/l | 25.0 | ND | 109 | 80-125 | 3.61 | 20 | |
| **p-Isopropyltoluene** | **23.2** | 2.0 | ug/l | 25.0 | ND | 92.8 | 80-125 | 3.81 | 20 | |
| **Methylene chloride** | **26.0** | 5.0 | ug/l | 25.0 | ND | 104 | 55-125 | 37.4 | 20 | R4 |
| **4-Methyl-2-pentanone (MIBK)** | **18.4** | 10 | ug/l | 25.0 | ND | 73.6 | 10-175 | 2.15 | 20 | |
| **Methyl-tert-butyl Ether (MTBE)** | **23.4** | 5.0 | ug/l | 25.0 | ND | 93.6 | 55-135 | 0.851 | 20 | |
| **Naphthalene** | **17.5** | 5.0 | ug/l | 25.0 | ND | 70.0 | 15-160 | 3.92 | 20 | |
| **n-Propylbenzene** | **24.9** | 2.0 | ug/l | 25.0 | ND | 99.6 | 80-130 | 2.38 | 20 | |
| **Styrene** | **23.6** | 2.0 | ug/l | 25.0 | ND | 94.4 | 60-135 | 3.74 | 20 | |
| **1,1,1,2-Tetrachloroethane** | **31.5** | 5.0 | ug/l | 25.0 | ND | 126 | 80-135 | 1.57 | 20 | |
| **1,1,2,2-Tetrachloroethane** | **22.8** | 2.0 | ug/l | 25.0 | ND | 91.2 | 35-150 | 0.00 | 20 | |
| **Tetrachloroethene** | **64.9** | 2.0 | ug/l | 25.0 | 40 | 99.6 | 80-120 | 3.03 | 20 | |
| **Toluene** | **26.1** | 2.0 | ug/l | 25.0 | ND | 104 | 80-120 | 0.763 | 20 | |
| **1,2,3-Trichlorobenzene** | **19.2** | 5.0 | ug/l | 25.0 | ND | 76.8 | 45-145 | 2.06 | 20 | |
| **1,2,4-Trichlorobenzene** | **20.8** | 5.0 | ug/l | 25.0 | ND | 83.2 | 65-130 | 4.69 | 20 | |
| **1,1,1-Trichloroethane** | **31.0** | 2.0 | ug/l | 25.0 | ND | 124 | 80-120 | 5.03 | 20 | M1 |
| **1,1,2-Trichloroethane** | **26.3** | 2.0 | ug/l | 25.0 | ND | 105 | 55-145 | 1.13 | 20 | |
| **Trichloroethene** | **27.2** | 2.0 | ug/l | 25.0 | ND | 109 | 80-120 | 7.43 | 20 | |
| **Trichlorofluoromethane** | **36.3** | 5.0 | ug/l | 25.0 | ND | 145 | 70-145 | 2.72 | 20 | |
| **1,2,3-Trichloropropane** | **21.0** | 10 | ug/l | 25.0 | ND | 84.0 | 20-160 | 2.82 | 20 | |
| **1,2,4-Trimethylbenzene** | **24.6** | 2.0 | ug/l | 25.0 | ND | 98.4 | 70-135 | 1.61 | 20 | |
| **1,3,5-Trimethylbenzene** | **24.1** | 2.0 | ug/l | 25.0 | ND | 96.4 | 80-125 | 2.05 | 20 | |
| **Vinyl acetate** | ND | 25 | ug/l | 25.0 | ND | 77.6 | 25-130 | 7.44 | 20 | |
| **Vinyl chloride** | **33.7** | 5.0 | ug/l | 25.0 | ND | 135 | 25-135 | 0.296 | 20 | |
| **Xylenes, Total** | **80.4** | 10 | ug/l | 75.0 | ND | 107 | 80-120 | 2.46 | 20 | |
| *Surrogate: Dibromofluoromethane* | *28.6* | | *ug/l* | *25.0* | | *114* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *26.5* | | *ug/l* | *25.0* | | *106* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *23.1* | | *ug/l* | *25.0* | | *92.4* | *80-120* | | | |

Melissa Evans
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 702 11-1-050

Report Number: PKI0041

Sampled: 09/05/01
Received: 09/05/01

METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1I0624 Extracted: 09/06/01** | | | | | | | | | | |
| **Blank Analyzed: 09/10/01 (P1I0624-BLK1)** | | | | | | | | | | |
| Arsenic | ND | 0.050 | mg/l | | | | | | | |
| Chromium | ND | 0.010 | mg/l | | | | | | | |
| Iron | ND | 0.20 | mg/l | | | | | | | |
| Manganese | ND | 0.020 | mg/l | | | | | | | |
| Nickel | ND | 0.050 | mg/l | | | | | | | |
| **LCS Analyzed: 09/10/01 (P1I0624-BS1)** | | | | | | | | | | |
| **Arsenic** | **0.971** | 0.050 | mg/l | 1.00 | | 97.1 | 85-115 | | | |
| **Chromium** | **0.938** | 0.010 | mg/l | 1.00 | | 93.8 | 85-115 | | | |
| **Iron** | **9.59** | 0.20 | mg/l | 10.0 | | 95.9 | 85-115 | | | |
| **Manganese** | **0.957** | 0.020 | mg/l | 1.00 | | 95.7 | 85-115 | | | |
| **Nickel** | **0.926** | 0.050 | mg/l | 1.00 | | 92.6 | 85-115 | | | |
| **Matrix Spike Analyzed: 09/10/01 (P1I0624-MS1)** | | | | | **Source: PKI0041-03** | | | | | |
| **Arsenic** | **0.940** | 0.050 | mg/l | 1.00 | ND | 94.0 | 70-130 | | | |
| **Chromium** | **0.878** | 0.010 | mg/l | 1.00 | ND | 87.6 | 70-130 | | | |
| **Iron** | **9.16** | 0.20 | mg/l | 10.0 | ND | 91.6 | 70-130 | | | |
| **Manganese** | **0.914** | 0.020 | mg/l | 1.00 | ND | 91.4 | 70-130 | | | |
| **Nickel** | **0.827** | 0.050 | mg/l | 1.00 | ND | 82.4 | 70-130 | | | |
| **Matrix Spike Dup Analyzed: 09/10/01 (P1I0624-MSD1)** | | | | | **Source: PKI0041-03** | | | | | |
| **Arsenic** | **0.954** | 0.050 | mg/l | 1.00 | ND | 95.4 | 70-130 | 1.48 | 20 | |
| **Chromium** | **0.893** | 0.010 | mg/l | 1.00 | ND | 89.1 | 70-130 | 1.69 | 20 | |
| **Iron** | **9.18** | 0.20 | mg/l | 10.0 | ND | 91.8 | 70-130 | 0.218 | 20 | |
| **Manganese** | **0.916** | 0.020 | mg/l | 1.00 | ND | 91.6 | 70-130 | 0.219 | 20 | |
| **Nickel** | **0.844** | 0.050 | mg/l | 1.00 | ND | 84.1 | 70-130 | 2.03 | 20 | |

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Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 702 11-1-050
Report Number: PKI0041

Sampled: 09/05/01
Received: 09/05/01

METHOD BLANK QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1I0705 Extracted: 09/07/01** | | | | | | | | | | |
| **Blank Analyzed: 09/07/01 (P1I0705-BLK1)** | | | | | | | | | | |
| Arsenic | ND | 0.050 | mg/l | | | | | | | |
| Chromium | ND | 0.010 | mg/l | | | | | | | |
| Iron | ND | 0.20 | mg/l | | | | | | | |
| Manganese | ND | 0.020 | mg/l | | | | | | | |
| Nickel | ND | 0.050 | mg/l | | | | | | | |
| **LCS Analyzed: 09/07/01 (P1I0705-BS1)** | | | | | | | | | | |
| **Arsenic** | **0.985** | 0.050 | mg/l | 1.00 | | 98.5 | 85-115 | | | |
| **Chromium** | **0.963** | 0.010 | mg/l | 1.00 | | 96.3 | 85-115 | | | |
| **Iron** | **10.0** | 0.20 | mg/l | 10.0 | | 100 | 85-115 | | | |
| **Manganese** | **0.976** | 0.020 | mg/l | 1.00 | | 97.6 | 85-115 | | | |
| **Nickel** | **0.957** | 0.050 | mg/l | 1.00 | | 95.7 | 85-115 | | | |
| **Matrix Spike Analyzed: 09/07/01 (P1I0705-MS1)** | | | | | **Source: PKI0028-01** | | | | | |
| **Arsenic** | **1.00** | 0.050 | mg/l | 1.00 | ND | 100 | 70-130 | | | |
| **Chromium** | **0.979** | 0.010 | mg/l | 1.00 | 0.020 | 95.9 | 70-130 | | | |
| **Iron** | **10.0** | 0.20 | mg/l | 10.0 | ND | 100 | 70-130 | | | |
| **Manganese** | **0.977** | 0.020 | mg/l | 1.00 | ND | 97.7 | 70-130 | | | |
| **Nickel** | **0.938** | 0.050 | mg/l | 1.00 | ND | 93.8 | 70-130 | | | |
| **Matrix Spike Dup Analyzed: 09/07/01 (P1I0705-MSD1)** | | | | | **Source: PKI0028-01** | | | | | |
| **Arsenic** | **1.00** | 0.050 | mg/l | 1.00 | ND | 100 | 70-130 | 0.00 | 20 | |
| **Chromium** | **0.981** | 0.010 | mg/l | 1.00 | 0.020 | 96.1 | 70-130 | 0.204 | 20 | |
| **Iron** | **10.0** | 0.20 | mg/l | 10.0 | ND | 100 | 70-130 | 0.00 | 20 | |
| **Manganese** | **0.978** | 0.020 | mg/l | 1.00 | ND | 97.8 | 70-130 | 0.102 | 20 | |
| **Nickel** | **0.935** | 0.050 | mg/l | 1.00 | ND | 93.5 | 70-130 | 0.320 | 20 | |

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Project Manager



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4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 702 11-1-050

Report Number: PKI0041

Sampled: 09/05/01
Received: 09/05/01

## METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1I1115 Extracted: 09/11/01** | | | | | | | | | | |
| **Blank Analyzed: 09/11/01 (P1I1115-BLK1)** | | | | | | | | | | |
| Arsenic | ND | 0.050 | mg/l | | | | | | | |
| Chromium | ND | 0.010 | mg/l | | | | | | | |
| Iron | ND | 0.20 | mg/l | | | | | | | |
| Manganese | ND | 0.020 | mg/l | | | | | | | |
| Nickel | ND | 0.050 | mg/l | | | | | | | |
| **LCS Analyzed: 09/11/01 (P1I1115-BS1)** | | | | | | | | | | |
| **Arsenic** | **1.02** | 0.050 | mg/l | 1.00 | | 102 | 85-115 | | | |
| **Chromium** | **0.985** | 0.010 | mg/l | 1.00 | | 98.5 | 85-115 | | | |
| **Iron** | **9.67** | 0.20 | mg/l | 10.0 | | 96.7 | 85-115 | | | |
| **Manganese** | **0.996** | 0.020 | mg/l | 1.00 | | 99.6 | 85-115 | | | |
| **Nickel** | **0.973** | 0.050 | mg/l | 1.00 | | 97.3 | 85-115 | | | |
| **LCS Dup Analyzed: 09/11/01 (P1I1115-BSD1)** | | | | | | | | | | |
| **Arsenic** | **1.01** | 0.050 | mg/l | 1.00 | | 101 | 85-115 | 0.985 | 20 | |
| **Chromium** | **0.951** | 0.010 | mg/l | 1.00 | | 95.1 | 85-115 | 3.51 | 20 | |
| **Iron** | **9.34** | 0.20 | mg/l | 10.0 | | 93.4 | 85-115 | 3.47 | 20 | |
| **Manganese** | **0.981** | 0.020 | mg/l | 1.00 | | 98.1 | 85-115 | 1.52 | 20 | |
| **Nickel** | **0.937** | 0.050 | mg/l | 1.00 | | 93.7 | 85-115 | 3.77 | 20 | |
| **Matrix Spike Analyzed: 09/11/01 (P1I1115-MS1)** | | | | | **Source: PKI0088-01** | | | | | |
| **Arsenic** | **1.03** | 0.050 | mg/l | 1.00 | ND | 103 | 70-130 | | | |
| **Chromium** | **0.992** | 0.010 | mg/l | 1.00 | ND | 98.9 | 70-130 | | | |
| **Iron** | **9.66** | 0.20 | mg/l | 10.0 | ND | 96.6 | 70-130 | | | |
| **Manganese** | **0.998** | 0.020 | mg/l | 1.00 | ND | 99.8 | 70-130 | | | |
| **Nickel** | **0.965** | 0.050 | mg/l | 1.00 | ND | 96.5 | 70-130 | | | |
| **Matrix Spike Dup Analyzed: 09/11/01 (P1I1115-MSD1)** | | | | | **Source: PKI0088-01** | | | | | |
| **Arsenic** | **1.05** | 0.050 | mg/l | 1.00 | ND | 105 | 70-130 | 1.92 | 20 | |
| **Chromium** | **0.974** | 0.010 | mg/l | 1.00 | ND | 97.1 | 70-130 | 1.83 | 20 | |
| **Iron** | **9.63** | 0.20 | mg/l | 10.0 | ND | 96.3 | 70-130 | 0.311 | 20 | |
| **Manganese** | **0.997** | 0.020 | mg/l | 1.00 | ND | 99.7 | 70-130 | 0.100 | 20 | |
| **Nickel** | **0.949** | 0.050 | mg/l | 1.00 | ND | 94.9 | 70-130 | 1.67 | 20 | |

Melissa Evans
Project Manager



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| | | |
|---|---|---|
| Law Engineering<br>4634 S. 36th Place<br>Phoenix, AZ 85040<br>Attention: Jim Clarke | Client Project ID: 702 11-1-050<br>Report Number: PKI0041 | Sampled: 09/05/01<br>Received: 09/05/01 |

METHOD BLANK/QC DATA

## DATA QUALIFIERS AND DEFINITIONS

**M1** Matrix spike recovery was high, the method control sample recovery was acceptable.

**R4** MS/MSD RPD exceeded the method control limit. Recovery met acceptance criteria.

**ND** Analyte NOT DETECTED at or above the reporting limit

**NR** Not reported.

**RPD** Relative Percent Difference

Melissa Evans
Project Manager



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2520 E. Sunset Rd., Suite 3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

# CHAIN OF CUSTODY FORM



Client Name/Address: LAW ENG. PHX, AZ

Project/PO Number: 70211-8-050

Project Manager:

Phone Number: 437 8250

Sampler: JIM CLARKE / PAT COCK

Fax Number: 437 3675

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date | Sampling Time | Preservatives | Analysis Required: 8260 S. MEA, Ar, Cr, Fe, Ni, Mn | Special Instructions |
|---|---|---|---|---|---|---|---|---|
| MWAM-85 | W | | 1 | 9/5/01 | 0835 | ~~HNO3~~ ~~No Pt~~ | | PKI004101 |
| | | | 2 | | | HCl | | |
| MW-12 | | | 1 | | | | | -02 |
| | | | 2 | | | | | |
| MW-5D | | | 1 | | 0930 | | | -03 |
| | | | 2 | | 0930 | | | |
| MW-2D | | | 1 | | 1010 | | | -04 |
| | | | 2 | | 1010 | | | |
| MW-3S | | | 1 | | 1050 | | | -05 |
| | | | 2 | | 1050 | | | |
| MW-7D | | | 1 | | 1110 | | | -06 |
| | | | 2 | | 1110 | | | |
| | | | | | | | | |
| | | | | | | | | |

| Relinquished By: | Date /Time: | Received by: | Date /Time: |
|---|---|---|---|
| PAT COCK | 9/5/01 1645 | | |
| Relinquished By: | Date /Time: | Received by: | Date /Time: |
| | 9/5/01 | | |
| Relinquished By: | Date /Time: | Received in Lab by: | Date /Time: |
| | | | 9/5/01 1645 |

Turnaround Time: (Check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal ✓

Sample Integrity: (Check)
intact ✓ on ice ✓

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

Temp 6°C

Del Mar Analytical

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150.2.2.2

Report Number: PKI0435

Sampled: 09/26/01
Received: 09/26/01
Issued: 10/25/01

# CASE NARRATIVE

| LABORATORY NUMBER | SAMPLE DESCRIPTION | SAMPLE MATRIX |
|---|---|---|
| PKI0435-01 | MW9-135 | Water |
| PKI0435-01RE1 | MW9-135 | Water |
| PKI0435-02 | MW9-175 | Water |
| PKI0435-03 | MW9-205 | Water |
| PKI0435-03RE1 | MW9-205 | Water |
| PKI0435-04 | MW9-225 | Water |

SAMPLE RECEIPT: Samples were received intact, on ice, and with chain of custody documentation.

HOLDING TIMES: The H1 flag on 8260 indicates that the sample analysis was performed past method-specified holding time.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

OBSERVATIONS: The N1 flag on 8260 indicates that the Concentration exceeds the calibration range and therefore result is semi-quantitative.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

QA/QC CRITERIA: All analyses met method criteria.

EXPLANATION OF DATA QUALIFIERS: The L3 flag on 8260 indicate that the Laboratory Control Sample recovery was above the method control limits. Analyte not detected, data not impacted.

**DEL MAR ANALYTICAL, PHOENIX (AZ0426)**

Melissa Evans
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150.2.2.2
Report Number: PKI0435

Sampled: 09/26/01
Received: 09/26/01

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKI0435-01 (MW9-135 - Water)** | | | | | | | | |
| **Acetone** | EPA 8260B | P1J0913 | 20 | **36000** | 1 | 10/9/01 | 10/10/01 | N1 |
| Benzene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Bromobenzene | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Bromochloromethane | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Bromodichloromethane | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Bromoform | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Bromomethane | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| **2-Butanone (MEK)** | EPA 8260B | P1J0913 | 10 | **38** | 1 | 10/9/01 | 10/10/01 | |
| n-Butylbenzene | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| sec-Butylbenzene | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| tert-Butylbenzene | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Carbon Disulfide | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Carbon tetrachloride | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Chlorobenzene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Chloroethane | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Chloroform | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Chloromethane | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 2-Chlorotoluene | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 4-Chlorotoluene | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Dibromochloromethane | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Dibromomethane | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,2-Dichlorobenzene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,3-Dichlorobenzene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,4-Dichlorobenzene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Dichlorodifluoromethane | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,1-Dichloroethane | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,2-Dichloroethane | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,1-Dichloroethene | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| cis-1,2-Dichloroethene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| trans-1,2-Dichloroethene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,2-Dichloropropane | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,3-Dichloropropane | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 2,2-Dichloropropane | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,1-Dichloropropene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| cis-1,3-Dichloropropene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| trans-1,3-Dichloropropene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Ethylbenzene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Hexachlorobutadiene | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 2-Hexanone | EPA 8260B | P1J0913 | 10 | ND | 1 | 10/9/01 | 10/10/01 | |
| Iodomethane | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Isopropylbenzene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| p-Isopropyltoluene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150.2.2.2
Report Number: PKI0435

Sampled: 09/26/01
Received: 09/26/01

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKI0435-01 (MW9-135 - Water)** | | | | | | | | |
| Methylene chloride | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P1J0913 | 10 | ND | 1 | 10/9/01 | 10/10/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Naphthalene | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| n-Propylbenzene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Styrene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Tetrachloroethene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Toluene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,1,2-Trichloroethane | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Trichloroethene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Trichlorofluoromethane | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P1J0913 | 10 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Vinyl acetate | EPA 8260B | P1J0913 | 25 | ND | 1 | 10/9/01 | 10/10/01 | |
| Vinyl chloride | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Xylenes, Total | EPA 8260B | P1J0913 | 10 | ND | 1 | 10/9/01 | 10/10/01 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *102 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *105 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *99.2 %* | | | | |

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Law Engineering
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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150.2.2.2
Report Number: PKI0435

Sampled: 09/26/01
Received: 09/26/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKI0435-01RE1 (MW9-135 - Water)** | | | | | | | | |
| **Acetone** | EPA 8260B | P1J1505 | 20000 | **55000** | 1000 | 10/11/01 | 10/11/01 | H1 |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *107 %* | | | | H1 |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *106 %* | | | | H1 |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *94.8 %* | | | | H1 |
| **Sample ID: PKI0435-02 (MW9-175 - Water)** | | | | | | | | |
| **Acetone** | EPA 8260B | P1J0913 | 20 | **24000** | 1 | 10/9/01 | 10/10/01 | N1 |
| Benzene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Bromobenzene | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Bromochloromethane | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Bromodichloromethane | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Bromoform | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Bromomethane | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| **2-Butanone (MEK)** | EPA 8260B | P1J0913 | 10 | **560** | 1 | 10/9/01 | 10/10/01 | N1 |
| n-Butylbenzene | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| sec-Butylbenzene | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| tert-Butylbenzene | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Carbon Disulfide | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Carbon tetrachloride | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Chlorobenzene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Chloroethane | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| **Chloroform** | EPA 8260B | P1J0913 | 2.0 | **17** | 1 | 10/9/01 | 10/10/01 | |
| Chloromethane | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 2-Chlorotoluene | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 4-Chlorotoluene | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Dibromochloromethane | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Dibromomethane | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,2-Dichlorobenzene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,3-Dichlorobenzene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,4-Dichlorobenzene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Dichlorodifluoromethane | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,1-Dichloroethane | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,2-Dichloroethane | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,1-Dichloroethene | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| cis-1,2-Dichloroethene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| trans-1,2-Dichloroethene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,2-Dichloropropane | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,3-Dichloropropane | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 2,2-Dichloropropane | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,1-Dichloropropene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| cis-1,3-Dichloropropene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| trans-1,3-Dichloropropene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Ethylbenzene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |

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Project Manager



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Attention: Jim Clarke

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Report Number: PKI0435

Sampled: 09/26/01
Received: 09/26/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKI0435-02 (MW9-175 - Water)** | | | | | | | | |
| Hexachlorobutadiene | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| **2-Hexanone** | EPA 8260B | P1J0913 | 10 | **14** | 1 | 10/9/01 | 10/10/01 | |
| Iodomethane | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Isopropylbenzene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| p-Isopropyltoluene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Methylene chloride | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P1J0913 | 10 | ND | 1 | 10/9/01 | 10/10/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Naphthalene | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| n-Propylbenzene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Styrene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Tetrachloroethene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Toluene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,1,2-Trichloroethane | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Trichloroethene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Trichlorofluoromethane | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P1J0913 | 10 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Vinyl acetate | EPA 8260B | P1J0913 | 25 | ND | 1 | 10/9/01 | 10/10/01 | |
| Vinyl chloride | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Xylenes, Total | EPA 8260B | P1J0913 | 10 | ND | 1 | 10/9/01 | 10/10/01 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *101 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *103 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *103 %* | | | | |

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Project Manager



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Sampled: 09/26/01
Received: 09/26/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKI0435-03 (MW9-205 - Water)** | | | | | | | | |
| **Acetone** | EPA 8260B | P1J0913 | 20 | **31000** | 1 | 10/9/01 | 10/10/01 | N1 |
| Benzene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Bromobenzene | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Bromochloromethane | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Bromodichloromethane | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Bromoform | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Bromomethane | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 2-Butanone (MEK) | EPA 8260B | P1J0913 | 10 | ND | 1 | 10/9/01 | 10/10/01 | |
| n-Butylbenzene | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| sec-Butylbenzene | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| tert-Butylbenzene | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Carbon Disulfide | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Carbon tetrachloride | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Chlorobenzene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Chloroethane | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| **Chloroform** | EPA 8260B | P1J0913 | 2.0 | **2.4** | 1 | 10/9/01 | 10/10/01 | |
| Chloromethane | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 2-Chlorotoluene | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 4-Chlorotoluene | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Dibromochloromethane | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Dibromomethane | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,2-Dichlorobenzene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,3-Dichlorobenzene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,4-Dichlorobenzene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Dichlorodifluoromethane | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,1-Dichloroethane | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,2-Dichloroethane | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,1-Dichloroethene | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| cis-1,2-Dichloroethene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| trans-1,2-Dichloroethene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,2-Dichloropropane | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,3-Dichloropropane | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 2,2-Dichloropropane | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,1-Dichloropropene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| cis-1,3-Dichloropropene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| trans-1,3-Dichloropropene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Ethylbenzene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Hexachlorobutadiene | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 2-Hexanone | EPA 8260B | P1J0913 | 10 | ND | 1 | 10/9/01 | 10/10/01 | |
| Iodomethane | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Isopropylbenzene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| p-Isopropyltoluene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |

Melissa Evans
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150.2.2.2
Report Number: PKI0435

Sampled: 09/26/01
Received: 09/26/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKI0435-03 (MW9-205 - Water)** | | | | | | | | |
| Methylene chloride | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P1J0913 | 10 | ND | 1 | 10/9/01 | 10/10/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Naphthalene | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| n-Propylbenzene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Styrene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Tetrachloroethene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Toluene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,1,2-Trichloroethane | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Trichloroethene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Trichlorofluoromethane | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P1J0913 | 10 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Vinyl acetate | EPA 8260B | P1J0913 | 25 | ND | 1 | 10/9/01 | 10/10/01 | |
| Vinyl chloride | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Xylenes, Total | EPA 8260B | P1J0913 | 10 | ND | 1 | 10/9/01 | 10/10/01 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *101 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *103 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *99.2 %* | | | | |

Melissa Evans
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150.2.2.2
Report Number: PKI0435

Sampled: 09/26/01
Received: 09/26/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKI0435-03RE1 (MW9-205 - Water)** | | | | | | | | |
| **Acetone** | EPA 8260B | P1J1505 | 20000 | **51000** | 1000 | 10/11/01 | 10/11/01 | H1 |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *105 %* | | | | H1 |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *109 %* | | | | H1 |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *98.0 %* | | | | H1 |
| **Sample ID: PKI0435-04 (MW9-225 - Water)** | | | | | | | | |
| **Acetone** | EPA 8260B | P1J0913 | 20 | **54** | 1 | 10/9/01 | 10/10/01 | |
| Benzene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Bromobenzene | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Bromochloromethane | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Bromodichloromethane | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Bromoform | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Bromomethane | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 2-Butanone (MEK) | EPA 8260B | P1J0913 | 10 | ND | 1 | 10/9/01 | 10/10/01 | |
| n-Butylbenzene | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| sec-Butylbenzene | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| tert-Butylbenzene | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Carbon Disulfide | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Carbon tetrachloride | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Chlorobenzene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Chloroethane | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Chloroform | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Chloromethane | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 2-Chlorotoluene | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 4-Chlorotoluene | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Dibromochloromethane | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Dibromomethane | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,2-Dichlorobenzene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,3-Dichlorobenzene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,4-Dichlorobenzene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Dichlorodifluoromethane | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,1-Dichloroethane | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,2-Dichloroethane | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,1-Dichloroethene | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| cis-1,2-Dichloroethene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| trans-1,2-Dichloroethene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,2-Dichloropropane | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,3-Dichloropropane | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 2,2-Dichloropropane | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,1-Dichloropropene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| cis-1,3-Dichloropropene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| trans-1,3-Dichloropropene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Ethylbenzene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |



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Attention: Jim Clarke

Client Project ID: 70211-0-0150.2.2.2
Report Number: PKI0435

Sampled: 09/26/01
Received: 09/26/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKI0435-04 (MW9-225 - Water)** | | | | | | | | |
| Hexachlorobutadiene | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 2-Hexanone | EPA 8260B | P1J0913 | 10 | ND | 1 | 10/9/01 | 10/10/01 | |
| Iodomethane | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Isopropylbenzene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| p-Isopropyltoluene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Methylene chloride | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P1J0913 | 10 | ND | 1 | 10/9/01 | 10/10/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Naphthalene | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| n-Propylbenzene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Styrene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Tetrachloroethene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Toluene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,1,2-Trichloroethane | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Trichloroethene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Trichlorofluoromethane | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P1J0913 | 10 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P1J0913 | 2.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Vinyl acetate | EPA 8260B | P1J0913 | 25 | ND | 1 | 10/9/01 | 10/10/01 | |
| Vinyl chloride | EPA 8260B | P1J0913 | 5.0 | ND | 1 | 10/9/01 | 10/10/01 | |
| Xylenes, Total | EPA 8260B | P1J0913 | 10 | ND | 1 | 10/9/01 | 10/10/01 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *98.4 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *106 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *96.4 %* | | | | |

**DEL MAR ANALYTICAL, PHOENIX (AZ0426**

Melissa Evans
Project Manager



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Attention: Jim Clarke

Client Project ID: 70211-0-0150.2.2.2
Report Number: PKI0435

Sampled: 09/26/01
Received: 09/26/01

## TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKI0435-01 (MW9-135 - Water)** | | | | | | | | |
| Arsenic | EPA 200.7 | P1I2717 | 0.050 | ND | 1 | 9/27/01 | 9/30/01 | |
| Chromium | EPA 200.7 | P1I2717 | 0.010 | ND | 1 | 9/27/01 | 9/30/01 | |
| **Iron** | EPA 200.7 | P1I2717 | 0.20 | **0.35** | 1 | 9/27/01 | 9/30/01 | |
| **Manganese** | EPA 200.7 | P1I2717 | 0.020 | **0.70** | 1 | 9/27/01 | 9/30/01 | |
| **Nickel** | EPA 200.7 | P1I2717 | 0.050 | **0.079** | 1 | 9/27/01 | 9/30/01 | |
| **Sample ID: PKI0435-02 (MW9-175 - Water)** | | | | | | | | |
| Arsenic | EPA 200.7 | P1I2717 | 0.050 | ND | 1 | 9/27/01 | 9/30/01 | |
| **Chromium** | EPA 200.7 | P1I2717 | 0.010 | **0.042** | 1 | 9/27/01 | 9/30/01 | |
| **Iron** | EPA 200.7 | P1I2717 | 0.20 | **2.2** | 1 | 9/27/01 | 9/30/01 | |
| **Manganese** | EPA 200.7 | P1I2717 | 0.020 | **1.4** | 1 | 9/27/01 | 9/30/01 | |
| Nickel | EPA 200.7 | P1I2717 | 0.050 | ND | 1 | 9/27/01 | 9/30/01 | |
| **Sample ID: PKI0435-03 (MW9-205 - Water)** | | | | | | | | |
| Arsenic | EPA 200.7 | P1I2717 | 0.050 | ND | 1 | 9/27/01 | 9/30/01 | |
| Chromium | EPA 200.7 | P1I2717 | 0.010 | ND | 1 | 9/27/01 | 9/30/01 | |
| **Iron** | EPA 200.7 | P1I2717 | 0.20 | **2.4** | 1 | 9/27/01 | 9/30/01 | |
| **Manganese** | EPA 200.7 | P1I2717 | 0.020 | **3.3** | 1 | 9/27/01 | 9/30/01 | |
| Nickel | EPA 200.7 | P1I2717 | 0.050 | ND | 1 | 9/27/01 | 9/30/01 | |
| **Sample ID: PKI0435-04 (MW9-225 - Water)** | | | | | | | | |
| Arsenic | EPA 200.7 | P1I2717 | 0.050 | ND | 1 | 9/27/01 | 9/30/01 | |
| Chromium | EPA 200.7 | P1I2717 | 0.010 | ND | 1 | 9/27/01 | 9/30/01 | |
| **Iron** | EPA 200.7 | P1I2717 | 0.20 | **1.4** | 1 | 9/27/01 | 9/30/01 | |
| **Manganese** | EPA 200.7 | P1I2717 | 0.020 | **2.5** | 1 | 9/27/01 | 9/30/01 | |
| Nickel | EPA 200.7 | P1I2717 | 0.050 | ND | 1 | 9/27/01 | 9/30/01 | |



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Law Engineering
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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150.2.2.2
Report Number: PKI0435

Sampled: 09/26/01
Received: 09/26/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1J0913 Extracted: 10/09/01** | | | | | | | | | | |
| **Blank Analyzed: 10/10/01 (P1J0913-BLK1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | |
| Benzene | ND | 2.0 | ug/l | | | | | | | |
| Bromobenzene | ND | 5.0 | ug/l | | | | | | | |
| Bromochloromethane | ND | 5.0 | ug/l | | | | | | | |
| Bromodichloromethane | ND | 2.0 | ug/l | | | | | | | |
| Bromoform | ND | 5.0 | ug/l | | | | | | | |
| Bromomethane | ND | 5.0 | ug/l | | | | | | | |
| 2-Butanone (MEK) | ND | 10 | ug/l | | | | | | | |
| n-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| sec-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| tert-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| Carbon Disulfide | ND | 5.0 | ug/l | | | | | | | |
| Carbon tetrachloride | ND | 5.0 | ug/l | | | | | | | |
| Chlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| Chloroethane | ND | 5.0 | ug/l | | | | | | | |
| Chloroform | ND | 2.0 | ug/l | | | | | | | |
| Chloromethane | ND | 5.0 | ug/l | | | | | | | |
| 2-Chlorotoluene | ND | 5.0 | ug/l | | | | | | | |
| 4-Chlorotoluene | ND | 5.0 | ug/l | | | | | | | |
| Dibromochloromethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/l | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 2.0 | ug/l | | | | | | | |
| Dibromomethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| Dichlorodifluoromethane | ND | 5.0 | ug/l | | | | | | | |
| 1,1-Dichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,1-Dichloroethene | ND | 5.0 | ug/l | | | | | | | |
| cis-1,2-Dichloroethene | ND | 2.0 | ug/l | | | | | | | |
| trans-1,2-Dichloroethene | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,3-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 2,2-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |

Melissa Evans
Project Manager



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Law Engineering
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Attention: Jim Clarke

Client Project ID: 70211-0-0150.2.2.2
Report Number: PKI0435

Sampled: 09/26/01
Received: 09/26/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1J0913 Extracted: 10/09/01** | | | | | | | | | | |
| **Blank Analyzed: 10/10/01 (P1J0913-BLK1)** | | | | | | | | | | |
| 1,1-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| cis-1,3-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| Ethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 5.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 10 | ug/l | | | | | | | |
| Iodomethane | ND | 2.0 | ug/l | | | | | | | |
| Isopropylbenzene | ND | 2.0 | ug/l | | | | | | | |
| p-Isopropyltoluene | ND | 2.0 | ug/l | | | | | | | |
| Methylene chloride | ND | 5.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 5.0 | ug/l | | | | | | | |
| Naphthalene | ND | 5.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Styrene | ND | 2.0 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/l | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 2.0 | ug/l | | | | | | | |
| Toluene | ND | 2.0 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 5.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,1,2-Trichloroethane | ND | 2.0 | ug/l | | | | | | | |
| Trichloroethene | ND | 2.0 | ug/l | | | | | | | |
| Trichlorofluoromethane | ND | 5.0 | ug/l | | | | | | | |
| 1,2,3-Trichloropropane | ND | 10 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Vinyl acetate | ND | 25 | ug/l | | | | | | | |
| Vinyl chloride | ND | 5.0 | ug/l | | | | | | | |
| Xylenes, Total | ND | 10 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *25.5* | | *ug/l* | *25.0* | | *102* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *26.0* | | *ug/l* | *25.0* | | *104* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *24.1* | | *ug/l* | *25.0* | | *96.4* | *80-120* | | | |

Melissa Evans
Project Manager



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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150.2.2.2
Report Number: PKI0435

Sampled: 09/26/01
Received: 09/26/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1J0913 Extracted: 10/09/01** | | | | | | | | | | |
| **LCS Analyzed: 10/10/01 (P1J0913-BS1)** | | | | | | | | | | |
| Acetone | 28.1 | 20 | ug/l | 25.0 | | 112 | 30-200 | | | |
| Benzene | 25.8 | 2.0 | ug/l | 25.0 | | 103 | 80-120 | | | |
| Bromobenzene | 24.1 | 5.0 | ug/l | 25.0 | | 96.4 | 80-120 | | | |
| Bromochloromethane | 24.4 | 5.0 | ug/l | 25.0 | | 97.6 | 80-120 | | | |
| Bromodichloromethane | 25.4 | 2.0 | ug/l | 25.0 | | 102 | 80-130 | | | |
| Bromoform | 26.2 | 5.0 | ug/l | 25.0 | | 105 | 60-140 | | | |
| Bromomethane | 27.9 | 5.0 | ug/l | 25.0 | | 112 | 60-150 | | | |
| 2-Butanone (MEK) | 19.8 | 10 | ug/l | 25.0 | | 79.2 | 30-185 | | | |
| n-Butylbenzene | 22.5 | 5.0 | ug/l | 25.0 | | 90.0 | 75-130 | | | |
| sec-Butylbenzene | 24.3 | 5.0 | ug/l | 25.0 | | 97.2 | 80-125 | | | |
| tert-Butylbenzene | 25.6 | 5.0 | ug/l | 25.0 | | 102 | 80-120 | | | |
| Carbon Disulfide | 27.2 | 5.0 | ug/l | 25.0 | | 109 | 65-120 | | | |
| Carbon tetrachloride | 29.9 | 5.0 | ug/l | 25.0 | | 120 | 75-150 | | | |
| Chlorobenzene | 26.1 | 2.0 | ug/l | 25.0 | | 104 | 80-120 | | | |
| Chloroethane | 26.7 | 5.0 | ug/l | 25.0 | | 107 | 80-125 | | | |
| Chloroform | 26.6 | 2.0 | ug/l | 25.0 | | 106 | 80-120 | | | |
| Chloromethane | 25.3 | 5.0 | ug/l | 25.0 | | 101 | 60-125 | | | |
| 2-Chlorotoluene | 24.5 | 5.0 | ug/l | 25.0 | | 98.0 | 80-120 | | | |
| 4-Chlorotoluene | 24.9 | 5.0 | ug/l | 25.0 | | 99.6 | 80-120 | | | |
| Dibromochloromethane | 28.6 | 2.0 | ug/l | 25.0 | | 114 | 70-150 | | | |
| 1,2-Dibromo-3-chloropropane | 24.2 | 5.0 | ug/l | 25.0 | | 96.8 | 50-145 | | | |
| 1,2-Dibromoethane (EDB) | 23.8 | 2.0 | ug/l | 25.0 | | 95.2 | 75-120 | | | |
| Dibromomethane | 25.4 | 2.0 | ug/l | 25.0 | | 102 | 80-120 | | | |
| 1,2-Dichlorobenzene | 24.3 | 2.0 | ug/l | 25.0 | | 97.2 | 80-120 | | | |
| 1,3-Dichlorobenzene | 24.7 | 2.0 | ug/l | 25.0 | | 98.8 | 80-120 | | | |
| 1,4-Dichlorobenzene | 23.4 | 2.0 | ug/l | 25.0 | | 93.6 | 80-120 | | | |
| Dichlorodifluoromethane | 27.7 | 5.0 | ug/l | 25.0 | | 111 | 25-140 | | | |
| 1,1-Dichloroethane | 26.5 | 2.0 | ug/l | 25.0 | | 106 | 80-120 | | | |
| 1,2-Dichloroethane | 26.2 | 2.0 | ug/l | 25.0 | | 105 | 80-120 | | | |
| 1,1-Dichloroethene | 25.5 | 5.0 | ug/l | 25.0 | | 102 | 80-120 | | | |
| cis-1,2-Dichloroethene | 27.2 | 2.0 | ug/l | 25.0 | | 109 | 80-120 | | | |
| trans-1,2-Dichloroethene | 26.1 | 2.0 | ug/l | 25.0 | | 104 | 80-120 | | | |
| 1,2-Dichloropropane | 24.8 | 2.0 | ug/l | 25.0 | | 99.2 | 80-120 | | | |
| 1,3-Dichloropropane | 24.0 | 2.0 | ug/l | 25.0 | | 96.0 | 80-120 | | | |
| 2,2-Dichloropropane | 27.6 | 2.0 | ug/l | 25.0 | | 110 | 75-135 | | | |
| 1,1-Dichloropropene | 25.8 | 2.0 | ug/l | 25.0 | | 103 | 80-120 | | | |

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Project Manager



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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150.2.2.2
Report Number: PKI0435

Sampled: 09/26/01
Received: 09/26/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1J0913 Extracted: 10/09/01** | | | | | | | | | | |
| **LCS Analyzed: 10/10/01 (P1J0913-BS1)** | | | | | | | | | | |
| **cis-1,3-Dichloropropene** | **24.1** | 2.0 | ug/l | 25.0 | | 96.4 | 80-120 | | | |
| **trans-1,3-Dichloropropene** | **23.9** | 2.0 | ug/l | 25.0 | | 95.6 | 80-120 | | | |
| **Ethylbenzene** | **24.9** | 2.0 | ug/l | 25.0 | | 99.6 | 80-120 | | | |
| **Hexachlorobutadiene** | **22.0** | 5.0 | ug/l | 25.0 | | 88.0 | 60-145 | | | |
| **2-Hexanone** | **20.8** | 10 | ug/l | 25.0 | | 83.2 | 50-170 | | | |
| **Iodomethane** | **26.7** | 2.0 | ug/l | 25.0 | | 107 | 40-155 | | | |
| **Isopropylbenzene** | **25.1** | 2.0 | ug/l | 25.0 | | 100 | 80-120 | | | |
| **p-Isopropyltoluene** | **23.4** | 2.0 | ug/l | 25.0 | | 93.6 | 80-120 | | | |
| **Methylene chloride** | **24.8** | 5.0 | ug/l | 25.0 | | 99.2 | 80-120 | | | |
| **4-Methyl-2-pentanone (MIBK)** | **24.3** | 10 | ug/l | 25.0 | | 97.2 | 70-140 | | | |
| **Methyl-tert-butyl Ether (MTBE)** | **23.6** | 5.0 | ug/l | 25.0 | | 94.4 | 75-135 | | | |
| **Naphthalene** | **21.5** | 5.0 | ug/l | 25.0 | | 86.0 | 70-130 | | | |
| **n-Propylbenzene** | **25.7** | 2.0 | ug/l | 25.0 | | 103 | 80-120 | | | |
| **Styrene** | **21.7** | 2.0 | ug/l | 25.0 | | 86.8 | 80-120 | | | |
| **1,1,1,2-Tetrachloroethane** | **27.9** | 5.0 | ug/l | 25.0 | | 112 | 65-150 | | | |
| **1,1,2,2-Tetrachloroethane** | **23.1** | 2.0 | ug/l | 25.0 | | 92.4 | 70-130 | | | |
| **Tetrachloroethene** | **26.0** | 2.0 | ug/l | 25.0 | | 104 | 80-125 | | | |
| **Toluene** | **23.6** | 2.0 | ug/l | 25.0 | | 94.4 | 80-120 | | | |
| **1,2,3-Trichlorobenzene** | **24.1** | 5.0 | ug/l | 25.0 | | 96.4 | 75-125 | | | |
| **1,2,4-Trichlorobenzene** | **22.2** | 5.0 | ug/l | 25.0 | | 88.8 | 80-120 | | | |
| **1,1,1-Trichloroethane** | **26.7** | 2.0 | ug/l | 25.0 | | 107 | 80-120 | | | |
| **1,1,2-Trichloroethane** | **23.0** | 2.0 | ug/l | 25.0 | | 92.0 | 80-120 | | | |
| **Trichloroethene** | **26.0** | 2.0 | ug/l | 25.0 | | 104 | 80-120 | | | |
| **Trichlorofluoromethane** | **24.0** | 5.0 | ug/l | 25.0 | | 96.0 | 75-150 | | | |
| **1,2,3-Trichloropropane** | **23.7** | 10 | ug/l | 25.0 | | 94.8 | 65-135 | | | |
| **1,2,4-Trimethylbenzene** | **25.7** | 2.0 | ug/l | 25.0 | | 103 | 80-120 | | | |
| **1,3,5-Trimethylbenzene** | **23.7** | 2.0 | ug/l | 25.0 | | 94.8 | 80-120 | | | |
| **Vinyl acetate** | **27.6** | 25 | ug/l | 25.0 | | 110 | 40-120 | | | |
| **Vinyl chloride** | **27.8** | 5.0 | ug/l | 25.0 | | 111 | 80-120 | | | |
| **Xylenes, Total** | **68.2** | 10 | ug/l | 75.0 | | 90.9 | 80-120 | | | |
| *Surrogate: Dibromofluoromethane* | *26.0* | | *ug/l* | *25.0* | | *104* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *26.4* | | *ug/l* | *25.0* | | *106* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.6* | | *ug/l* | *25.0* | | *102* | *80-120* | | | |

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Attention: Jim Clarke

Client Project ID: 70211-0-0150.2.2.2
Report Number: PKI0435

Sampled: 09/26/01
Received: 09/26/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1J0913 Extracted: 10/09/01** | | | | | | | | | | |
| **LCS Dup Analyzed: 10/10/01 (P1J0913-BSD1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | 25.0 | | 74.8 | 30-200 | 40.2 | 20 | R6 |
| **Benzene** | **25.7** | 2.0 | ug/l | 25.0 | | 103 | 80-120 | 0.388 | 20 | |
| **Bromobenzene** | **25.6** | 5.0 | ug/l | 25.0 | | 102 | 80-120 | 6.04 | 20 | |
| **Bromochloromethane** | **24.3** | 5.0 | ug/l | 25.0 | | 97.2 | 80-120 | 0.411 | 20 | |
| **Bromodichloromethane** | **25.1** | 2.0 | ug/l | 25.0 | | 100 | 80-130 | 1.19 | 20 | |
| **Bromoform** | **28.4** | 5.0 | ug/l | 25.0 | | 114 | 60-140 | 8.06 | 20 | |
| **Bromomethane** | **27.3** | 5.0 | ug/l | 25.0 | | 109 | 60-150 | 2.17 | 20 | |
| **2-Butanone (MEK)** | **20.5** | 10 | ug/l | 25.0 | | 82.0 | 30-185 | 3.47 | 20 | |
| **n-Butylbenzene** | **22.0** | 5.0 | ug/l | 25.0 | | 88.0 | 75-130 | 2.25 | 20 | |
| **sec-Butylbenzene** | **24.7** | 5.0 | ug/l | 25.0 | | 98.8 | 80-125 | 1.63 | 20 | |
| **tert-Butylbenzene** | **26.5** | 5.0 | ug/l | 25.0 | | 106 | 80-120 | 3.45 | 20 | |
| **Carbon Disulfide** | **26.7** | 5.0 | ug/l | 25.0 | | 107 | 65-120 | 1.86 | 20 | |
| **Carbon tetrachloride** | **29.3** | 5.0 | ug/l | 25.0 | | 117 | 75-150 | 2.03 | 20 | |
| **Chlorobenzene** | **25.9** | 2.0 | ug/l | 25.0 | | 104 | 80-120 | 0.769 | 20 | |
| **Chloroethane** | **26.2** | 5.0 | ug/l | 25.0 | | 105 | 80-125 | 1.89 | 20 | |
| **Chloroform** | **25.8** | 2.0 | ug/l | 25.0 | | 103 | 80-120 | 3.05 | 20 | |
| **Chloromethane** | **25.8** | 5.0 | ug/l | 25.0 | | 103 | 60-125 | 1.96 | 20 | |
| **2-Chlorotoluene** | **25.7** | 5.0 | ug/l | 25.0 | | 103 | 80-120 | 4.78 | 20 | |
| **4-Chlorotoluene** | **25.6** | 5.0 | ug/l | 25.0 | | 102 | 80-120 | 2.77 | 20 | |
| **Dibromochloromethane** | **28.5** | 2.0 | ug/l | 25.0 | | 114 | 70-150 | 0.350 | 20 | |
| **1,2-Dibromo-3-chloropropane** | **24.3** | 5.0 | ug/l | 25.0 | | 97.2 | 50-145 | 0.412 | 20 | |
| **1,2-Dibromoethane (EDB)** | **24.5** | 2.0 | ug/l | 25.0 | | 98.0 | 75-120 | 2.90 | 20 | |
| **Dibromomethane** | **25.5** | 2.0 | ug/l | 25.0 | | 102 | 80-120 | 0.393 | 20 | |
| **1,2-Dichlorobenzene** | **24.4** | 2.0 | ug/l | 25.0 | | 97.6 | 80-120 | 0.411 | 20 | |
| **1,3-Dichlorobenzene** | **25.0** | 2.0 | ug/l | 25.0 | | 100 | 80-120 | 1.21 | 20 | |
| **1,4-Dichlorobenzene** | **24.0** | 2.0 | ug/l | 25.0 | | 96.0 | 80-120 | 2.53 | 20 | |
| **Dichlorodifluoromethane** | **26.6** | 5.0 | ug/l | 25.0 | | 106 | 25-140 | 4.05 | 20 | |
| **1,1-Dichloroethane** | **26.6** | 2.0 | ug/l | 25.0 | | 106 | 80-120 | 0.377 | 20 | |
| **1,2-Dichloroethane** | **26.5** | 2.0 | ug/l | 25.0 | | 106 | 80-120 | 1.14 | 20 | |
| **1,1-Dichloroethene** | **25.1** | 5.0 | ug/l | 25.0 | | 100 | 80-120 | 1.58 | 20 | |
| **cis-1,2-Dichloroethene** | **26.3** | 2.0 | ug/l | 25.0 | | 105 | 80-120 | 3.36 | 20 | |
| **trans-1,2-Dichloroethene** | **25.2** | 2.0 | ug/l | 25.0 | | 101 | 80-120 | 3.51 | 20 | |
| **1,2-Dichloropropane** | **24.8** | 2.0 | ug/l | 25.0 | | 99.2 | 80-120 | 0.00 | 20 | |
| **1,3-Dichloropropane** | **24.4** | 2.0 | ug/l | 25.0 | | 97.6 | 80-120 | 1.65 | 20 | |
| **2,2-Dichloropropane** | **26.6** | 2.0 | ug/l | 25.0 | | 106 | 75-135 | 3.69 | 20 | |
| **1,1-Dichloropropene** | **25.8** | 2.0 | ug/l | 25.0 | | 103 | 80-120 | 0.00 | 20 | |

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Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150.2.2.2
Report Number: PKI0435

Sampled: 09/26/01
Received: 09/26/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1J0913 Extracted: 10/09/01** | | | | | | | | | | |
| **LCS Dup Analyzed: 10/10/01 (P1J0913-BSD1)** | | | | | | | | | | |
| **cis-1,3-Dichloropropene** | **24.2** | 2.0 | ug/l | 25.0 | | 96.8 | 80-120 | 0.414 | 20 | |
| **trans-1,3-Dichloropropene** | **23.7** | 2.0 | ug/l | 25.0 | | 94.8 | 80-120 | 0.840 | 20 | |
| **Ethylbenzene** | **24.8** | 2.0 | ug/l | 25.0 | | 99.2 | 80-120 | 0.402 | 20 | |
| **Hexachlorobutadiene** | **19.9** | 5.0 | ug/l | 25.0 | | 79.6 | 60-145 | 10.0 | 20 | |
| **2-Hexanone** | **21.2** | 10 | ug/l | 25.0 | | 84.8 | 50-170 | 1.90 | 20 | |
| **Iodomethane** | **26.4** | 2.0 | ug/l | 25.0 | | 106 | 40-155 | 1.13 | 20 | |
| **Isopropylbenzene** | **26.2** | 2.0 | ug/l | 25.0 | | 105 | 80-120 | 4.29 | 20 | |
| **p-Isopropyltoluene** | **23.2** | 2.0 | ug/l | 25.0 | | 92.8 | 80-120 | 0.858 | 20 | |
| **Methylene chloride** | **24.7** | 5.0 | ug/l | 25.0 | | 98.8 | 80-120 | 0.404 | 20 | |
| **4-Methyl-2-pentanone (MIBK)** | **22.2** | 10 | ug/l | 25.0 | | 88.8 | 70-140 | 9.03 | 20 | |
| **Methyl-tert-butyl Ether (MTBE)** | **23.0** | 5.0 | ug/l | 25.0 | | 92.0 | 75-135 | 2.58 | 20 | |
| **Naphthalene** | **20.2** | 5.0 | ug/l | 25.0 | | 80.8 | 70-130 | 6.24 | 20 | |
| **n-Propylbenzene** | **26.6** | 2.0 | ug/l | 25.0 | | 106 | 80-120 | 3.44 | 20 | |
| **Styrene** | **21.2** | 2.0 | ug/l | 25.0 | | 84.8 | 80-120 | 2.33 | 20 | |
| **1,1,1,2-Tetrachloroethane** | **27.9** | 5.0 | ug/l | 25.0 | | 112 | 65-150 | 0.00 | 20 | |
| **1,1,2,2-Tetrachloroethane** | **24.1** | 2.0 | ug/l | 25.0 | | 96.4 | 70-130 | 4.24 | 20 | |
| **Tetrachloroethene** | **25.9** | 2.0 | ug/l | 25.0 | | 104 | 80-125 | 0.385 | 20 | |
| **Toluene** | **23.0** | 2.0 | ug/l | 25.0 | | 92.0 | 80-120 | 2.58 | 20 | |
| **1,2,3-Trichlorobenzene** | **22.1** | 5.0 | ug/l | 25.0 | | 88.4 | 75-125 | 8.66 | 20 | |
| **1,2,4-Trichlorobenzene** | **20.5** | 5.0 | ug/l | 25.0 | | 82.0 | 80-120 | 7.96 | 20 | |
| **1,1,1-Trichloroethane** | **26.2** | 2.0 | ug/l | 25.0 | | 105 | 80-120 | 1.89 | 20 | |
| **1,1,2-Trichloroethane** | **23.2** | 2.0 | ug/l | 25.0 | | 92.8 | 80-120 | 0.866 | 20 | |
| **Trichloroethene** | **25.0** | 2.0 | ug/l | 25.0 | | 100 | 80-120 | 3.92 | 20 | |
| **Trichlorofluoromethane** | **23.8** | 5.0 | ug/l | 25.0 | | 95.2 | 75-150 | 0.837 | 20 | |
| **1,2,3-Trichloropropane** | **24.5** | 10 | ug/l | 25.0 | | 98.0 | 65-135 | 3.32 | 20 | |
| **1,2,4-Trimethylbenzene** | **26.2** | 2.0 | ug/l | 25.0 | | 105 | 80-120 | 1.93 | 20 | |
| **1,3,5-Trimethylbenzene** | **24.4** | 2.0 | ug/l | 25.0 | | 97.6 | 80-120 | 2.91 | 20 | |
| **Vinyl acetate** | **28.0** | 25 | ug/l | 25.0 | | 112 | 40-120 | 1.44 | 20 | |
| **Vinyl chloride** | **27.2** | 5.0 | ug/l | 25.0 | | 109 | 80-120 | 2.18 | 20 | |
| **Xylenes, Total** | **67.7** | 10 | ug/l | 75.0 | | 90.3 | 80-120 | 0.736 | 20 | |
| *Surrogate: Dibromofluoromethane* | *26.0* | | *ug/l* | *25.0* | | *104* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *26.2* | | *ug/l* | *25.0* | | *105* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *24.7* | | *ug/l* | *25.0* | | *98.8* | *80-120* | | | |

Melissa Evans
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150.2.2.2
Report Number: PKI0435

Sampled: 09/26/01
Received: 09/26/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1J0913 Extracted: 10/09/01** | | | | | | | | | | |
| **Matrix Spike Analyzed: 10/10/01 (P1J0913-MS1)** | | | | | **Source: PKJ0134-02RE1** | | | | | |
| Acetone | 48.1 | 40 | ug/l | 50.0 | ND | 96.2 | 5-200 | | | |
| Benzene | 51.2 | 4.0 | ug/l | 50.0 | ND | 102 | 80-120 | | | |
| Bromobenzene | 48.3 | 10 | ug/l | 50.0 | ND | 96.6 | 80-120 | | | |
| Bromochloromethane | 50.1 | 10 | ug/l | 50.0 | ND | 100 | 60-135 | | | |
| Bromodichloromethane | 51.5 | 4.0 | ug/l | 50.0 | ND | 103 | 80-120 | | | |
| Bromoform | 52.1 | 10 | ug/l | 50.0 | ND | 104 | 40-140 | | | |
| Bromomethane | 57.5 | 10 | ug/l | 50.0 | ND | 115 | 25-165 | | | |
| 2-Butanone (MEK) | 47.8 | 20 | ug/l | 50.0 | ND | 95.6 | 10-160 | | | |
| n-Butylbenzene | 49.8 | 10 | ug/l | 50.0 | ND | 99.6 | 75-135 | | | |
| sec-Butylbenzene | 51.8 | 10 | ug/l | 50.0 | ND | 104 | 80-135 | | | |
| tert-Butylbenzene | 54.0 | 10 | ug/l | 50.0 | ND | 108 | 80-125 | | | |
| Carbon Disulfide | 58.0 | 10 | ug/l | 50.0 | ND | 116 | 20-120 | | | |
| Carbon tetrachloride | 58.0 | 10 | ug/l | 50.0 | ND | 116 | 80-145 | | | |
| Chlorobenzene | 52.2 | 4.0 | ug/l | 50.0 | ND | 104 | 80-120 | | | |
| Chloroethane | 57.0 | 10 | ug/l | 50.0 | ND | 114 | 30-150 | | | |
| Chloroform | 54.8 | 4.0 | ug/l | 50.0 | ND | 110 | 80-125 | | | |
| Chloromethane | 54.1 | 10 | ug/l | 50.0 | ND | 108 | 15-140 | | | |
| 2-Chlorotoluene | 49.6 | 10 | ug/l | 50.0 | ND | 99.2 | 80-125 | | | |
| 4-Chlorotoluene | 50.9 | 10 | ug/l | 50.0 | ND | 102 | 80-125 | | | |
| Dibromochloromethane | 55.6 | 4.0 | ug/l | 50.0 | ND | 111 | 75-135 | | | |
| 1,2-Dibromo-3-chloropropane | 52.6 | 10 | ug/l | 50.0 | ND | 105 | 25-185 | | | |
| 1,2-Dibromoethane (EDB) | 50.0 | 4.0 | ug/l | 50.0 | ND | 100 | 45-145 | | | |
| Dibromomethane | 53.5 | 4.0 | ug/l | 50.0 | ND | 107 | 55-140 | | | |
| 1,2-Dichlorobenzene | 50.7 | 4.0 | ug/l | 50.0 | ND | 101 | 80-120 | | | |
| 1,3-Dichlorobenzene | 51.1 | 4.0 | ug/l | 50.0 | ND | 102 | 80-120 | | | |
| 1,4-Dichlorobenzene | 48.8 | 4.0 | ug/l | 50.0 | ND | 97.6 | 80-120 | | | |
| Dichlorodifluoromethane | 56.7 | 10 | ug/l | 50.0 | ND | 113 | 25-145 | | | |
| 1,1-Dichloroethane | 55.0 | 4.0 | ug/l | 50.0 | ND | 110 | 75-120 | | | |
| 1,2-Dichloroethane | 54.6 | 4.0 | ug/l | 50.0 | ND | 109 | 60-135 | | | |
| 1,1-Dichloroethene | 58.7 | 10 | ug/l | 50.0 | ND | 117 | 55-120 | | | |
| cis-1,2-Dichloroethene | 103 | 4.0 | ug/l | 50.0 | 45 | 116 | 75-120 | | | |
| trans-1,2-Dichloroethene | 54.3 | 4.0 | ug/l | 50.0 | ND | 109 | 65-120 | | | |
| 1,2-Dichloropropane | 52.6 | 4.0 | ug/l | 50.0 | ND | 105 | 80-125 | | | |
| 1,3-Dichloropropane | 50.2 | 4.0 | ug/l | 50.0 | ND | 100 | 55-140 | | | |
| 2,2-Dichloropropane | 54.3 | 4.0 | ug/l | 50.0 | ND | 109 | 45-165 | | | |
| 1,1-Dichloropropene | 53.7 | 4.0 | ug/l | 50.0 | ND | 107 | 80-120 | | | |

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Law Engineering
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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150.2.2.2
Report Number: PKI0435

Sampled: 09/26/01
Received: 09/26/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1J0913 Extracted: 10/09/01** | | | | | | | | | | |
| **Matrix Spike Analyzed: 10/10/01 (P1J0913-MS1)** | | | | | **Source: PKJ0134-02RE1** | | | | | |
| **cis-1,3-Dichloropropene** | **49.1** | 4.0 | ug/l | 50.0 | ND | 98.2 | 80-120 | | | |
| **trans-1,3-Dichloropropene** | **50.0** | 4.0 | ug/l | 50.0 | ND | 100 | 70-120 | | | |
| **Ethylbenzene** | **51.4** | 4.0 | ug/l | 50.0 | ND | 103 | 80-120 | | | |
| **Hexachlorobutadiene** | **48.1** | 10 | ug/l | 50.0 | ND | 96.2 | 80-135 | | | |
| **2-Hexanone** | **51.1** | 20 | ug/l | 50.0 | ND | 102 | 25-185 | | | |
| **Iodomethane** | **57.6** | 4.0 | ug/l | 50.0 | ND | 115 | 30-155 | | | |
| **Isopropylbenzene** | **50.8** | 4.0 | ug/l | 50.0 | ND | 102 | 80-125 | | | |
| **p-Isopropyltoluene** | **50.6** | 4.0 | ug/l | 50.0 | ND | 101 | 80-125 | | | |
| **Methylene chloride** | **53.4** | 10 | ug/l | 50.0 | ND | 107 | 55-125 | | | |
| **4-Methyl-2-pentanone (MIBK)** | **55.5** | 20 | ug/l | 50.0 | ND | 111 | 10-175 | | | |
| **Methyl-tert-butyl Ether (MTBE)** | **52.3** | 10 | ug/l | 50.0 | ND | 105 | 55-135 | | | |
| **Naphthalene** | **44.3** | 10 | ug/l | 50.0 | ND | 88.6 | 15-160 | | | |
| **n-Propylbenzene** | **52.9** | 4.0 | ug/l | 50.0 | ND | 106 | 80-130 | | | |
| **Styrene** | **35.0** | 4.0 | ug/l | 50.0 | ND | 70.0 | 60-135 | | | |
| **1,1,1,2-Tetrachloroethane** | **55.1** | 10 | ug/l | 50.0 | ND | 110 | 80-135 | | | |
| **1,1,2,2-Tetrachloroethane** | **51.4** | 4.0 | ug/l | 50.0 | ND | 103 | 35-150 | | | |
| **Tetrachloroethene** | **60.9** | 4.0 | ug/l | 50.0 | 9.6 | 103 | 80-120 | | | |
| **Toluene** | **50.1** | 4.0 | ug/l | 50.0 | ND | 100 | 80-120 | | | |
| **1,2,3-Trichlorobenzene** | **48.6** | 10 | ug/l | 50.0 | ND | 97.2 | 45-145 | | | |
| **1,2,4-Trichlorobenzene** | **44.2** | 10 | ug/l | 50.0 | ND | 88.4 | 65-130 | | | |
| **1,1,1-Trichloroethane** | **53.2** | 4.0 | ug/l | 50.0 | ND | 106 | 80-120 | | | |
| **1,1,2-Trichloroethane** | **51.4** | 4.0 | ug/l | 50.0 | ND | 103 | 55-145 | | | |
| **Trichloroethene** | **290** | 4.0 | ug/l | 50.0 | 230 | 120 | 80-120 | | | |
| **Trichlorofluoromethane** | **49.1** | 10 | ug/l | 50.0 | ND | 98.2 | 70-145 | | | |
| **1,2,3-Trichloropropane** | **51.9** | 20 | ug/l | 50.0 | ND | 104 | 20-160 | | | |
| **1,2,4-Trimethylbenzene** | **54.1** | 4.0 | ug/l | 50.0 | ND | 108 | 70-135 | | | |
| **1,3,5-Trimethylbenzene** | **49.9** | 4.0 | ug/l | 50.0 | ND | 99.8 | 80-125 | | | |
| **Vinyl acetate** | **53.2** | 50 | ug/l | 50.0 | ND | 106 | 25-130 | | | |
| **Vinyl chloride** | **64.1** | 10 | ug/l | 50.0 | ND | 128 | 25-135 | | | |
| **Xylenes, Total** | **142** | 20 | ug/l | 150 | ND | 94.7 | 80-120 | | | |
| *Surrogate: Dibromofluoromethane* | *26.4* | | *ug/l* | *25.0* | | *106* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *27.5* | | *ug/l* | *25.0* | | *110* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.5* | | *ug/l* | *25.0* | | *102* | *80-120* | | | |

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Attention: Jim Clarke

Client Project ID: 70211-0-0150.2.2.2
Report Number: PKI0435

Sampled: 09/26/01
Received: 09/26/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1J0913 Extracted: 10/09/01** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 10/10/01 (P1J0913-MSD1)** | | | | | Source: PKJ0134-02RE1 | | | | | |
| **Acetone** | **41.8** | 40 | ug/l | 50.0 | ND | 83.6 | 5-200 | 14.0 | 20 | |
| **Benzene** | **48.8** | 4.0 | ug/l | 50.0 | ND | 97.6 | 80-120 | 4.80 | 20 | |
| **Bromobenzene** | **47.5** | 10 | ug/l | 50.0 | ND | 95.0 | 80-120 | 1.67 | 20 | |
| **Bromochloromethane** | **47.0** | 10 | ug/l | 50.0 | ND | 94.0 | 60-135 | 6.39 | 20 | |
| **Bromodichloromethane** | **48.3** | 4.0 | ug/l | 50.0 | ND | 96.6 | 80-120 | 6.41 | 20 | |
| **Bromoform** | **50.9** | 10 | ug/l | 50.0 | ND | 102 | 40-140 | 2.33 | 20 | |
| **Bromomethane** | **55.6** | 10 | ug/l | 50.0 | ND | 111 | 25-165 | 3.36 | 20 | |
| **2-Butanone (MEK)** | **46.8** | 20 | ug/l | 50.0 | ND | 93.6 | 10-160 | 2.11 | 20 | |
| **n-Butylbenzene** | **46.4** | 10 | ug/l | 50.0 | ND | 92.8 | 75-135 | 7.07 | 20 | |
| **sec-Butylbenzene** | **48.8** | 10 | ug/l | 50.0 | ND | 97.6 | 80-135 | 5.96 | 20 | |
| **tert-Butylbenzene** | **50.8** | 10 | ug/l | 50.0 | ND | 102 | 80-125 | 6.11 | 20 | |
| **Carbon Disulfide** | **53.3** | 10 | ug/l | 50.0 | ND | 107 | 20-120 | 8.45 | 20 | |
| **Carbon tetrachloride** | **55.8** | 10 | ug/l | 50.0 | ND | 112 | 80-145 | 3.87 | 20 | |
| **Chlorobenzene** | **51.0** | 4.0 | ug/l | 50.0 | ND | 102 | 80-120 | 2.33 | 20 | |
| **Chloroethane** | **53.0** | 10 | ug/l | 50.0 | ND | 106 | 30-150 | 7.27 | 20 | |
| **Chloroform** | **51.1** | 4.0 | ug/l | 50.0 | ND | 102 | 80-125 | 6.99 | 20 | |
| **Chloromethane** | **51.6** | 10 | ug/l | 50.0 | ND | 103 | 15-140 | 4.73 | 20 | |
| **2-Chlorotoluene** | **48.2** | 10 | ug/l | 50.0 | ND | 96.4 | 80-125 | 2.86 | 20 | |
| **4-Chlorotoluene** | **48.8** | 10 | ug/l | 50.0 | ND | 97.6 | 80-125 | 4.21 | 20 | |
| **Dibromochloromethane** | **54.9** | 4.0 | ug/l | 50.0 | ND | 110 | 75-135 | 1.27 | 20 | |
| **1,2-Dibromo-3-chloropropane** | **50.8** | 10 | ug/l | 50.0 | ND | 102 | 25-185 | 3.48 | 20 | |
| **1,2-Dibromoethane (EDB)** | **48.7** | 4.0 | ug/l | 50.0 | ND | 97.4 | 45-145 | 2.63 | 20 | |
| **Dibromomethane** | **50.9** | 4.0 | ug/l | 50.0 | ND | 102 | 55-140 | 4.98 | 20 | |
| **1,2-Dichlorobenzene** | **48.7** | 4.0 | ug/l | 50.0 | ND | 97.4 | 80-120 | 4.02 | 20 | |
| **1,3-Dichlorobenzene** | **49.5** | 4.0 | ug/l | 50.0 | ND | 99.0 | 80-120 | 3.18 | 20 | |
| **1,4-Dichlorobenzene** | **46.0** | 4.0 | ug/l | 50.0 | ND | 92.0 | 80-120 | 5.91 | 20 | |
| **Dichlorodifluoromethane** | **52.2** | 10 | ug/l | 50.0 | ND | 104 | 25-145 | 8.26 | 20 | |
| **1,1-Dichloroethane** | **50.4** | 4.0 | ug/l | 50.0 | ND | 101 | 75-120 | 8.73 | 20 | |
| **1,2-Dichloroethane** | **51.1** | 4.0 | ug/l | 50.0 | ND | 102 | 60-135 | 6.62 | 20 | |
| **1,1-Dichloroethene** | **55.0** | 10 | ug/l | 50.0 | ND | 110 | 55-120 | 6.51 | 20 | |
| **cis-1,2-Dichloroethene** | **96.5** | 4.0 | ug/l | 50.0 | 45 | 103 | 75-120 | 6.52 | 20 | |
| **trans-1,2-Dichloroethene** | **49.3** | 4.0 | ug/l | 50.0 | ND | 98.6 | 65-120 | 9.65 | 20 | |
| **1,2-Dichloropropane** | **49.4** | 4.0 | ug/l | 50.0 | ND | 98.8 | 80-125 | 6.27 | 20 | |
| **1,3-Dichloropropane** | **47.8** | 4.0 | ug/l | 50.0 | ND | 95.6 | 55-140 | 4.90 | 20 | |
| **2,2-Dichloropropane** | **49.6** | 4.0 | ug/l | 50.0 | ND | 99.2 | 45-165 | 9.05 | 20 | |
| **1,1-Dichloropropene** | **49.9** | 4.0 | ug/l | 50.0 | ND | 99.8 | 80-120 | 7.34 | 20 | |

Melissa Evans
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150.2.2.2
Report Number: PKI0435

Sampled: 09/26/01
Received: 09/26/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1J0913 Extracted: 10/09/01** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 10/10/01 (P1J0913-MSD1)** | | | | | **Source: PKJ0134-02RE1** | | | | | |
| **cis-1,3-Dichloropropene** | **47.0** | 4.0 | ug/l | 50.0 | ND | 94.0 | 80-120 | 4.37 | 20 | |
| **trans-1,3-Dichloropropene** | **46.4** | 4.0 | ug/l | 50.0 | ND | 92.8 | 70-120 | 7.47 | 20 | |
| **Ethylbenzene** | **49.0** | 4.0 | ug/l | 50.0 | ND | 98.0 | 80-120 | 4.78 | 20 | |
| **Hexachlorobutadiene** | **45.6** | 10 | ug/l | 50.0 | ND | 91.2 | 80-135 | 5.34 | 20 | |
| **2-Hexanone** | **49.4** | 20 | ug/l | 50.0 | ND | 98.8 | 25-185 | 3.38 | 20 | |
| **Iodomethane** | **53.1** | 4.0 | ug/l | 50.0 | ND | 106 | 30-155 | 8.13 | 20 | |
| **Isopropylbenzene** | **48.5** | 4.0 | ug/l | 50.0 | ND | 97.0 | 80-125 | 4.63 | 20 | |
| **p-Isopropyltoluene** | **45.9** | 4.0 | ug/l | 50.0 | ND | 91.8 | 80-125 | 9.74 | 20 | |
| **Methylene chloride** | **50.3** | 10 | ug/l | 50.0 | ND | 101 | 55-125 | 5.98 | 20 | |
| **4-Methyl-2-pentanone (MIBK)** | **52.5** | 20 | ug/l | 50.0 | ND | 105 | 10-175 | 5.56 | 20 | |
| **Methyl-tert-butyl Ether (MTBE)** | **48.0** | 10 | ug/l | 50.0 | ND | 96.0 | 55-135 | 8.57 | 20 | |
| **Naphthalene** | **45.7** | 10 | ug/l | 50.0 | ND | 91.4 | 15-160 | 3.11 | 20 | |
| **n-Propylbenzene** | **50.0** | 4.0 | ug/l | 50.0 | ND | 100 | 80-130 | 5.64 | 20 | |
| **Styrene** | **27.4** | 4.0 | ug/l | 50.0 | ND | 54.8 | 60-135 | 24.4 | 20 | M2,Q11 |
| **1,1,1,2-Tetrachloroethane** | **54.3** | 10 | ug/l | 50.0 | ND | 109 | 80-135 | 1.46 | 20 | |
| **1,1,2,2-Tetrachloroethane** | **49.5** | 4.0 | ug/l | 50.0 | ND | 99.0 | 35-150 | 3.77 | 20 | |
| **Tetrachloroethene** | **57.8** | 4.0 | ug/l | 50.0 | 9.6 | 96.4 | 80-120 | 5.22 | 20 | |
| **Toluene** | **46.6** | 4.0 | ug/l | 50.0 | ND | 93.2 | 80-120 | 7.24 | 20 | |
| **1,2,3-Trichlorobenzene** | **49.1** | 10 | ug/l | 50.0 | ND | 98.2 | 45-145 | 1.02 | 20 | |
| **1,2,4-Trichlorobenzene** | **42.8** | 10 | ug/l | 50.0 | ND | 85.6 | 65-130 | 3.22 | 20 | |
| **1,1,1-Trichloroethane** | **49.3** | 4.0 | ug/l | 50.0 | ND | 98.6 | 80-120 | 7.61 | 20 | |
| **1,1,2-Trichloroethane** | **49.2** | 4.0 | ug/l | 50.0 | ND | 98.4 | 55-145 | 4.37 | 20 | |
| **Trichloroethene** | **275** | 4.0 | ug/l | 50.0 | 230 | 90.0 | 80-120 | 5.31 | 20 | |
| **Trichlorofluoromethane** | **42.3** | 10 | ug/l | 50.0 | ND | 84.6 | 70-145 | 14.9 | 20 | |
| **1,2,3-Trichloropropane** | **49.9** | 20 | ug/l | 50.0 | ND | 99.8 | 20-160 | 3.93 | 20 | |
| **1,2,4-Trimethylbenzene** | **51.3** | 4.0 | ug/l | 50.0 | ND | 103 | 70-135 | 5.31 | 20 | |
| **1,3,5-Trimethylbenzene** | **46.9** | 4.0 | ug/l | 50.0 | ND | 93.8 | 80-125 | 6.20 | 20 | |
| **Vinyl acetate** | ND | 50 | ug/l | 50.0 | ND | 85.0 | 25-130 | 22.4 | 20 | R4 |
| **Vinyl chloride** | **59.7** | 10 | ug/l | 50.0 | ND | 119 | 25-135 | 7.11 | 20 | |
| **Xylenes, Total** | **135** | 20 | ug/l | 150 | ND | 90.0 | 80-120 | 5.05 | 20 | |
| *Surrogate: Dibromofluoromethane* | *26.1* | | *ug/l* | *25.0* | | *104* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *27.2* | | *ug/l* | *25.0* | | *109* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.2* | | *ug/l* | *25.0* | | *105* | *80-120* | | | |

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150.2.2.2
Report Number: PKI0435

Sampled: 09/26/01
Received: 09/26/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1J1505 Extracted: 10/11/01** | | | | | | | | | | |
| **Blank Analyzed: 10/11/01 (P1J1505-BLK1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | |
| Benzene | ND | 2.0 | ug/l | | | | | | | |
| Bromobenzene | ND | 5.0 | ug/l | | | | | | | |
| Bromochloromethane | ND | 5.0 | ug/l | | | | | | | |
| Bromodichloromethane | ND | 2.0 | ug/l | | | | | | | |
| Bromoform | ND | 5.0 | ug/l | | | | | | | |
| Bromomethane | ND | 5.0 | ug/l | | | | | | | |
| 2-Butanone (MEK) | ND | 10 | ug/l | | | | | | | |
| n-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| sec-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| tert-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| Carbon Disulfide | ND | 5.0 | ug/l | | | | | | | |
| Carbon tetrachloride | ND | 5.0 | ug/l | | | | | | | |
| Chlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| Chloroethane | ND | 5.0 | ug/l | | | | | | | |
| Chloroform | ND | 2.0 | ug/l | | | | | | | |
| Chloromethane | ND | 5.0 | ug/l | | | | | | | |
| 2-Chlorotoluene | ND | 5.0 | ug/l | | | | | | | |
| 4-Chlorotoluene | ND | 5.0 | ug/l | | | | | | | |
| Dibromochloromethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/l | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 2.0 | ug/l | | | | | | | |
| Dibromomethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| Dichlorodifluoromethane | ND | 5.0 | ug/l | | | | | | | |
| 1,1-Dichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,1-Dichloroethene | ND | 5.0 | ug/l | | | | | | | |
| cis-1,2-Dichloroethene | ND | 2.0 | ug/l | | | | | | | |
| trans-1,2-Dichloroethene | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,3-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 2,2-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |

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Sampled: 09/26/01
Received: 09/26/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1J1505 Extracted: 10/11/01** | | | | | | | | | | |
| **Blank Analyzed: 10/11/01 (P1J1505-BLK1)** | | | | | | | | | | |
| 1,1-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| cis-1,3-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| Ethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 5.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 10 | ug/l | | | | | | | |
| Iodomethane | ND | 2.0 | ug/l | | | | | | | |
| Isopropylbenzene | ND | 2.0 | ug/l | | | | | | | |
| p-Isopropyltoluene | ND | 2.0 | ug/l | | | | | | | |
| Methylene chloride | ND | 5.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 5.0 | ug/l | | | | | | | |
| Naphthalene | ND | 5.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Styrene | ND | 2.0 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/l | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 2.0 | ug/l | | | | | | | |
| Toluene | ND | 2.0 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 5.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,1,2-Trichloroethane | ND | 2.0 | ug/l | | | | | | | |
| Trichloroethene | ND | 2.0 | ug/l | | | | | | | |
| Trichlorofluoromethane | ND | 5.0 | ug/l | | | | | | | |
| 1,2,3-Trichloropropane | ND | 10 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Vinyl acetate | ND | 25 | ug/l | | | | | | | |
| Vinyl chloride | ND | 5.0 | ug/l | | | | | | | L3 |
| Xylenes, Total | ND | 10 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *25.6* | | *ug/l* | *25.0* | | *102* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *27.2* | | *ug/l* | *25.0* | | *109* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *23.8* | | *ug/l* | *25.0* | | *95.2* | *80-120* | | | |

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Report Number: PKI0435

Sampled: 09/26/01
Received: 09/26/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1J1505 Extracted: 10/11/01** | | | | | | | | | | |
| **LCS Analyzed: 10/11/01 (P1J1505-BS1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | 25.0 | | 73.2 | 30-200 | | | |
| **Benzene** | **25.8** | 2.0 | ug/l | 25.0 | | 103 | 80-120 | | | |
| **Bromobenzene** | **25.5** | 5.0 | ug/l | 25.0 | | 102 | 80-120 | | | |
| **Bromochloromethane** | **25.2** | 5.0 | ug/l | 25.0 | | 101 | 80-120 | | | |
| **Bromodichloromethane** | **26.2** | 2.0 | ug/l | 25.0 | | 105 | 80-130 | | | |
| **Bromoform** | **28.9** | 5.0 | ug/l | 25.0 | | 116 | 60-140 | | | |
| **Bromomethane** | **27.5** | 5.0 | ug/l | 25.0 | | 110 | 60-150 | | | |
| **2-Butanone (MEK)** | **20.2** | 10 | ug/l | 25.0 | | 80.8 | 30-185 | | | |
| **n-Butylbenzene** | **21.2** | 5.0 | ug/l | 25.0 | | 84.8 | 75-130 | | | |
| **sec-Butylbenzene** | **24.5** | 5.0 | ug/l | 25.0 | | 98.0 | 80-125 | | | |
| **tert-Butylbenzene** | **26.0** | 5.0 | ug/l | 25.0 | | 104 | 80-120 | | | |
| **Carbon Disulfide** | **26.3** | 5.0 | ug/l | 25.0 | | 105 | 65-120 | | | |
| **Carbon tetrachloride** | **30.0** | 5.0 | ug/l | 25.0 | | 120 | 75-150 | | | |
| **Chlorobenzene** | **26.4** | 2.0 | ug/l | 25.0 | | 106 | 80-120 | | | |
| **Chloroethane** | **26.1** | 5.0 | ug/l | 25.0 | | 104 | 80-125 | | | |
| **Chloroform** | **26.9** | 2.0 | ug/l | 25.0 | | 108 | 80-120 | | | |
| **Chloromethane** | **22.5** | 5.0 | ug/l | 25.0 | | 90.0 | 60-125 | | | |
| **2-Chlorotoluene** | **25.8** | 5.0 | ug/l | 25.0 | | 103 | 80-120 | | | |
| **4-Chlorotoluene** | **25.5** | 5.0 | ug/l | 25.0 | | 102 | 80-120 | | | |
| **Dibromochloromethane** | **29.0** | 2.0 | ug/l | 25.0 | | 116 | 70-150 | | | |
| **1,2-Dibromo-3-chloropropane** | **23.5** | 5.0 | ug/l | 25.0 | | 94.0 | 50-145 | | | |
| **1,2-Dibromoethane (EDB)** | **24.6** | 2.0 | ug/l | 25.0 | | 98.4 | 75-120 | | | |
| **Dibromomethane** | **25.9** | 2.0 | ug/l | 25.0 | | 104 | 80-120 | | | |
| **1,2-Dichlorobenzene** | **24.5** | 2.0 | ug/l | 25.0 | | 98.0 | 80-120 | | | |
| **1,3-Dichlorobenzene** | **25.2** | 2.0 | ug/l | 25.0 | | 101 | 80-120 | | | |
| **1,4-Dichlorobenzene** | **24.0** | 2.0 | ug/l | 25.0 | | 96.0 | 80-120 | | | |
| **Dichlorodifluoromethane** | **20.9** | 5.0 | ug/l | 25.0 | | 83.6 | 25-140 | | | |
| **1,1-Dichloroethane** | **26.8** | 2.0 | ug/l | 25.0 | | 107 | 80-120 | | | |
| **1,2-Dichloroethane** | **26.5** | 2.0 | ug/l | 25.0 | | 106 | 80-120 | | | |
| **1,1-Dichloroethene** | **24.7** | 5.0 | ug/l | 25.0 | | 98.8 | 80-120 | | | |
| **cis-1,2-Dichloroethene** | **26.7** | 2.0 | ug/l | 25.0 | | 107 | 80-120 | | | |
| **trans-1,2-Dichloroethene** | **25.5** | 2.0 | ug/l | 25.0 | | 102 | 80-120 | | | |
| **1,2-Dichloropropane** | **25.2** | 2.0 | ug/l | 25.0 | | 101 | 80-120 | | | |
| **1,3-Dichloropropane** | **24.8** | 2.0 | ug/l | 25.0 | | 99.2 | 80-120 | | | |
| **2,2-Dichloropropane** | **28.4** | 2.0 | ug/l | 25.0 | | 114 | 75-135 | | | |
| **1,1-Dichloropropene** | **27.0** | 2.0 | ug/l | 25.0 | | 108 | 80-120 | | | |

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Project Manager



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Report Number: PKI0435

Sampled: 09/26/01
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METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1J1505 Extracted: 10/11/01** | | | | | | | | | | |
| **LCS Analyzed: 10/11/01 (P1J1505-BS1)** | | | | | | | | | | |
| **cis-1,3-Dichloropropene** | **24.3** | 2.0 | ug/l | 25.0 | | 97.2 | 80-120 | | | |
| **trans-1,3-Dichloropropene** | **23.4** | 2.0 | ug/l | 25.0 | | 93.6 | 80-120 | | | |
| **Ethylbenzene** | **24.5** | 2.0 | ug/l | 25.0 | | 98.0 | 80-120 | | | |
| **Hexachlorobutadiene** | **20.5** | 5.0 | ug/l | 25.0 | | 82.0 | 60-145 | | | |
| **2-Hexanone** | **20.5** | 10 | ug/l | 25.0 | | 82.0 | 50-170 | | | |
| **Iodomethane** | **25.0** | 2.0 | ug/l | 25.0 | | 100 | 40-155 | | | |
| **Isopropylbenzene** | **26.0** | 2.0 | ug/l | 25.0 | | 104 | 80-120 | | | |
| **p-Isopropyltoluene** | **22.9** | 2.0 | ug/l | 25.0 | | 91.6 | 80-120 | | | |
| **Methylene chloride** | **24.3** | 5.0 | ug/l | 25.0 | | 97.2 | 80-120 | | | |
| **4-Methyl-2-pentanone (MIBK)** | **21.5** | 10 | ug/l | 25.0 | | 86.0 | 70-140 | | | |
| **Methyl-tert-butyl Ether (MTBE)** | **21.9** | 5.0 | ug/l | 25.0 | | 87.6 | 75-135 | | | |
| **Naphthalene** | **20.1** | 5.0 | ug/l | 25.0 | | 80.4 | 70-130 | | | |
| **n-Propylbenzene** | **26.1** | 2.0 | ug/l | 25.0 | | 104 | 80-120 | | | |
| **Styrene** | **21.0** | 2.0 | ug/l | 25.0 | | 84.0 | 80-120 | | | |
| **1,1,1,2-Tetrachloroethane** | **27.5** | 5.0 | ug/l | 25.0 | | 110 | 65-150 | | | |
| **1,1,2,2-Tetrachloroethane** | **23.5** | 2.0 | ug/l | 25.0 | | 94.0 | 70-130 | | | |
| **Tetrachloroethene** | **26.6** | 2.0 | ug/l | 25.0 | | 106 | 80-125 | | | |
| **Toluene** | **23.6** | 2.0 | ug/l | 25.0 | | 94.4 | 80-120 | | | |
| **1,2,3-Trichlorobenzene** | **22.7** | 5.0 | ug/l | 25.0 | | 90.8 | 75-125 | | | |
| **1,2,4-Trichlorobenzene** | **20.4** | 5.0 | ug/l | 25.0 | | 81.6 | 80-120 | | | |
| **1,1,1-Trichloroethane** | **26.3** | 2.0 | ug/l | 25.0 | | 105 | 80-120 | | | |
| **1,1,2-Trichloroethane** | **23.5** | 2.0 | ug/l | 25.0 | | 94.0 | 80-120 | | | |
| **Trichloroethene** | **26.6** | 2.0 | ug/l | 25.0 | | 106 | 80-120 | | | |
| **Trichlorofluoromethane** | **22.4** | 5.0 | ug/l | 25.0 | | 89.6 | 75-150 | | | |
| **1,2,3-Trichloropropane** | **24.8** | 10 | ug/l | 25.0 | | 99.2 | 65-135 | | | |
| **1,2,4-Trimethylbenzene** | **25.9** | 2.0 | ug/l | 25.0 | | 104 | 80-120 | | | |
| **1,3,5-Trimethylbenzene** | **24.3** | 2.0 | ug/l | 25.0 | | 97.2 | 80-120 | | | |
| **Vinyl acetate** | **25.0** | 25 | ug/l | 25.0 | | 100 | 40-120 | | | |
| **Vinyl chloride** | **28.2** | 5.0 | ug/l | 25.0 | | 113 | 80-120 | | | |
| **Xylenes, Total** | **67.9** | 10 | ug/l | 75.0 | | 90.5 | 80-120 | | | |
| *Surrogate: Dibromofluoromethane* | *26.2* | | *ug/l* | *25.0* | | *105* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *26.0* | | *ug/l* | *25.0* | | *104* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *24.7* | | *ug/l* | *25.0* | | *98.8* | *80-120* | | | |

Melissa Evans
Project Manager



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Law Engineering
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Attention: Jim Clarke

Client Project ID: 70211-0-0150.2.2.2
Report Number: PKI0435

Sampled: 09/26/01
Received: 09/26/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1J1505 Extracted: 10/11/01** | | | | | | | | | | |
| **LCS Dup Analyzed: 10/11/01 (P1J1505-BSD1)** | | | | | | | | | | |
| **Acetone** | **22.7** | 20 | ug/l | 25.0 | | 90.8 | 30-200 | 21.5 | 20 | R6 |
| **Benzene** | **26.0** | 2.0 | ug/l | 25.0 | | 104 | 80-120 | 0.772 | 20 | |
| **Bromobenzene** | **24.6** | 5.0 | ug/l | 25.0 | | 98.4 | 80-120 | 3.59 | 20 | |
| **Bromochloromethane** | **25.0** | 5.0 | ug/l | 25.0 | | 100 | 80-120 | 0.797 | 20 | |
| **Bromodichloromethane** | **26.4** | 2.0 | ug/l | 25.0 | | 106 | 80-130 | 0.760 | 20 | |
| **Bromoform** | **27.9** | 5.0 | ug/l | 25.0 | | 112 | 60-140 | 3.52 | 20 | |
| **Bromomethane** | **30.1** | 5.0 | ug/l | 25.0 | | 120 | 60-150 | 9.03 | 20 | |
| **2-Butanone (MEK)** | **24.7** | 10 | ug/l | 25.0 | | 98.8 | 30-185 | 20.0 | 20 | |
| **n-Butylbenzene** | **23.8** | 5.0 | ug/l | 25.0 | | 95.2 | 75-130 | 11.6 | 20 | |
| **sec-Butylbenzene** | **25.8** | 5.0 | ug/l | 25.0 | | 103 | 80-125 | 5.17 | 20 | |
| **tert-Butylbenzene** | **26.9** | 5.0 | ug/l | 25.0 | | 108 | 80-120 | 3.40 | 20 | |
| **Carbon Disulfide** | **27.4** | 5.0 | ug/l | 25.0 | | 110 | 65-120 | 4.10 | 20 | |
| **Carbon tetrachloride** | **30.8** | 5.0 | ug/l | 25.0 | | 123 | 75-150 | 2.63 | 20 | |
| **Chlorobenzene** | **26.8** | 2.0 | ug/l | 25.0 | | 107 | 80-120 | 1.50 | 20 | |
| **Chloroethane** | **29.3** | 5.0 | ug/l | 25.0 | | 117 | 80-125 | 11.6 | 20 | |
| **Chloroform** | **27.4** | 2.0 | ug/l | 25.0 | | 110 | 80-120 | 1.84 | 20 | |
| **Chloromethane** | **26.0** | 5.0 | ug/l | 25.0 | | 104 | 60-125 | 14.4 | 20 | |
| **2-Chlorotoluene** | **25.4** | 5.0 | ug/l | 25.0 | | 102 | 80-120 | 1.56 | 20 | |
| **4-Chlorotoluene** | **25.7** | 5.0 | ug/l | 25.0 | | 103 | 80-120 | 0.781 | 20 | |
| **Dibromochloromethane** | **29.2** | 2.0 | ug/l | 25.0 | | 117 | 70-150 | 0.687 | 20 | |
| **1,2-Dibromo-3-chloropropane** | **25.1** | 5.0 | ug/l | 25.0 | | 100 | 50-145 | 6.58 | 20 | |
| **1,2-Dibromoethane (EDB)** | **25.8** | 2.0 | ug/l | 25.0 | | 103 | 75-120 | 4.76 | 20 | |
| **Dibromomethane** | **27.4** | 2.0 | ug/l | 25.0 | | 110 | 80-120 | 5.63 | 20 | |
| **1,2-Dichlorobenzene** | **25.9** | 2.0 | ug/l | 25.0 | | 104 | 80-120 | 5.56 | 20 | |
| **1,3-Dichlorobenzene** | **26.0** | 2.0 | ug/l | 25.0 | | 104 | 80-120 | 3.12 | 20 | |
| **1,4-Dichlorobenzene** | **24.6** | 2.0 | ug/l | 25.0 | | 98.4 | 80-120 | 2.47 | 20 | |
| **Dichlorodifluoromethane** | **24.8** | 5.0 | ug/l | 25.0 | | 99.2 | 25-140 | 17.1 | 20 | |
| **1,1-Dichloroethane** | **27.8** | 2.0 | ug/l | 25.0 | | 111 | 80-120 | 3.66 | 20 | |
| **1,2-Dichloroethane** | **27.6** | 2.0 | ug/l | 25.0 | | 110 | 80-120 | 4.07 | 20 | |
| **1,1-Dichloroethene** | **26.0** | 5.0 | ug/l | 25.0 | | 104 | 80-120 | 5.13 | 20 | |
| **cis-1,2-Dichloroethene** | **27.9** | 2.0 | ug/l | 25.0 | | 112 | 80-120 | 4.40 | 20 | |
| **trans-1,2-Dichloroethene** | **27.1** | 2.0 | ug/l | 25.0 | | 108 | 80-120 | 6.08 | 20 | |
| **1,2-Dichloropropane** | **25.7** | 2.0 | ug/l | 25.0 | | 103 | 80-120 | 1.96 | 20 | |
| **1,3-Dichloropropane** | **25.7** | 2.0 | ug/l | 25.0 | | 103 | 80-120 | 3.56 | 20 | |
| **2,2-Dichloropropane** | **30.2** | 2.0 | ug/l | 25.0 | | 121 | 75-135 | 6.14 | 20 | |
| **1,1-Dichloropropene** | **27.0** | 2.0 | ug/l | 25.0 | | 108 | 80-120 | 0.00 | 20 | |

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Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150.2.2.2
Report Number: PKI0435

Sampled: 09/26/01
Received: 09/26/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1J1505 Extracted: 10/11/01** | | | | | | | | | | |
| **LCS Dup Analyzed: 10/11/01 (P1J1505-BSD1)** | | | | | | | | | | |
| **cis-1,3-Dichloropropene** | **24.9** | 2.0 | ug/l | 25.0 | | 99.6 | 80-120 | 2.44 | 20 | |
| **trans-1,3-Dichloropropene** | **24.8** | 2.0 | ug/l | 25.0 | | 99.2 | 80-120 | 5.81 | 20 | |
| **Ethylbenzene** | **26.2** | 2.0 | ug/l | 25.0 | | 105 | 80-120 | 6.71 | 20 | |
| **Hexachlorobutadiene** | **24.3** | 5.0 | ug/l | 25.0 | | 97.2 | 60-145 | 17.0 | 20 | |
| **2-Hexanone** | **25.7** | 10 | ug/l | 25.0 | | 103 | 50-170 | 22.5 | 20 | R6 |
| **Iodomethane** | **26.7** | 2.0 | ug/l | 25.0 | | 107 | 40-155 | 6.58 | 20 | |
| **Isopropylbenzene** | **25.4** | 2.0 | ug/l | 25.0 | | 102 | 80-120 | 2.33 | 20 | |
| **p-Isopropyltoluene** | **25.0** | 2.0 | ug/l | 25.0 | | 100 | 80-120 | 8.77 | 20 | |
| **Methylene chloride** | **25.0** | 5.0 | ug/l | 25.0 | | 100 | 80-120 | 2.84 | 20 | |
| **4-Methyl-2-pentanone (MIBK)** | **27.5** | 10 | ug/l | 25.0 | | 110 | 70-140 | 24.5 | 20 | R6 |
| **Methyl-tert-butyl Ether (MTBE)** | **25.4** | 5.0 | ug/l | 25.0 | | 102 | 75-135 | 14.8 | 20 | |
| **Naphthalene** | **23.4** | 5.0 | ug/l | 25.0 | | 93.6 | 70-130 | 15.2 | 20 | |
| **n-Propylbenzene** | **26.4** | 2.0 | ug/l | 25.0 | | 106 | 80-120 | 1.14 | 20 | |
| **Styrene** | **22.9** | 2.0 | ug/l | 25.0 | | 91.6 | 80-120 | 8.66 | 20 | |
| **1,1,1,2-Tetrachloroethane** | **28.5** | 5.0 | ug/l | 25.0 | | 114 | 65-150 | 3.57 | 20 | |
| **1,1,2,2-Tetrachloroethane** | **24.4** | 2.0 | ug/l | 25.0 | | 97.6 | 70-130 | 3.76 | 20 | |
| **Tetrachloroethene** | **26.2** | 2.0 | ug/l | 25.0 | | 105 | 80-125 | 1.52 | 20 | |
| **Toluene** | **24.8** | 2.0 | ug/l | 25.0 | | 99.2 | 80-120 | 4.96 | 20 | |
| **1,2,3-Trichlorobenzene** | **24.4** | 5.0 | ug/l | 25.0 | | 97.6 | 75-125 | 7.22 | 20 | |
| **1,2,4-Trichlorobenzene** | **22.4** | 5.0 | ug/l | 25.0 | | 89.6 | 80-120 | 9.35 | 20 | |
| **1,1,1-Trichloroethane** | **27.3** | 2.0 | ug/l | 25.0 | | 109 | 80-120 | 3.73 | 20 | |
| **1,1,2-Trichloroethane** | **25.6** | 2.0 | ug/l | 25.0 | | 102 | 80-120 | 8.55 | 20 | |
| **Trichloroethene** | **27.8** | 2.0 | ug/l | 25.0 | | 111 | 80-120 | 4.41 | 20 | |
| **Trichlorofluoromethane** | **24.0** | 5.0 | ug/l | 25.0 | | 96.0 | 75-150 | 6.90 | 20 | |
| **1,2,3-Trichloropropane** | **26.7** | 10 | ug/l | 25.0 | | 107 | 65-135 | 7.38 | 20 | |
| **1,2,4-Trimethylbenzene** | **27.0** | 2.0 | ug/l | 25.0 | | 108 | 80-120 | 4.16 | 20 | |
| **1,3,5-Trimethylbenzene** | **25.2** | 2.0 | ug/l | 25.0 | | 101 | 80-120 | 3.64 | 20 | |
| **Vinyl acetate** | **29.0** | 25 | ug/l | 25.0 | | 116 | 40-120 | 14.8 | 20 | |
| **Vinyl chloride** | **32.0** | 5.0 | ug/l | 25.0 | | 128 | 80-120 | 12.6 | 20 | L3 |
| **Xylenes, Total** | **72.7** | 10 | ug/l | 75.0 | | 96.9 | 80-120 | 6.83 | 20 | |
| *Surrogate: Dibromofluoromethane* | *26.6* | | *ug/l* | *25.0* | | *106* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *27.0* | | *ug/l* | *25.0* | | *108* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.3* | | *ug/l* | *25.0* | | *105* | *80-120* | | | |

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Project Manager



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Law Engineering
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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150.2.2.2
Report Number: PKI0435

Sampled: 09/26/01
Received: 09/26/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1J1505 Extracted: 10/11/01** | | | | | | | | | | |
| **Matrix Spike Analyzed: 10/11/01 (P1J1505-MS1)** | | | | | **Source: PKI0514-03** | | | | | |
| **Acetone** | **23.5** | 20 | ug/l | 25.0 | ND | 94.0 | 5-200 | | | |
| **Benzene** | **58.4** | 2.0 | ug/l | 25.0 | 30 | 114 | 80-120 | | | |
| **Bromobenzene** | **24.3** | 5.0 | ug/l | 25.0 | ND | 97.2 | 80-120 | | | |
| **Bromochloromethane** | **26.0** | 5.0 | ug/l | 25.0 | ND | 104 | 60-135 | | | |
| **Bromodichloromethane** | **25.6** | 2.0 | ug/l | 25.0 | ND | 102 | 80-120 | | | |
| **Bromoform** | **24.4** | 5.0 | ug/l | 25.0 | ND | 97.6 | 40-140 | | | |
| **Bromomethane** | **31.9** | 5.0 | ug/l | 25.0 | ND | 128 | 25-165 | | | |
| **2-Butanone (MEK)** | **23.8** | 10 | ug/l | 25.0 | ND | 95.2 | 10-160 | | | |
| **n-Butylbenzene** | **25.9** | 5.0 | ug/l | 25.0 | ND | 104 | 75-135 | | | |
| **sec-Butylbenzene** | **26.2** | 5.0 | ug/l | 25.0 | ND | 105 | 80-135 | | | |
| **tert-Butylbenzene** | **27.0** | 5.0 | ug/l | 25.0 | ND | 108 | 80-125 | | | |
| **Carbon Disulfide** | **29.3** | 5.0 | ug/l | 25.0 | ND | 117 | 20-120 | | | |
| **Carbon tetrachloride** | **28.9** | 5.0 | ug/l | 25.0 | ND | 116 | 80-145 | | | |
| **Chlorobenzene** | **26.6** | 2.0 | ug/l | 25.0 | ND | 106 | 80-120 | | | |
| **Chloroethane** | **30.4** | 5.0 | ug/l | 25.0 | ND | 122 | 30-150 | | | |
| **Chloroform** | **27.9** | 2.0 | ug/l | 25.0 | ND | 112 | 80-125 | | | |
| **Chloromethane** | **28.7** | 5.0 | ug/l | 25.0 | ND | 115 | 15-140 | | | |
| **2-Chlorotoluene** | **30.4** | 5.0 | ug/l | 25.0 | ND | 122 | 80-125 | | | |
| **4-Chlorotoluene** | **27.0** | 5.0 | ug/l | 25.0 | ND | 108 | 80-125 | | | |
| **Dibromochloromethane** | **26.7** | 2.0 | ug/l | 25.0 | ND | 107 | 75-135 | | | |
| **1,2-Dibromo-3-chloropropane** | **25.7** | 5.0 | ug/l | 25.0 | ND | 103 | 25-185 | | | |
| **1,2-Dibromoethane (EDB)** | **24.4** | 2.0 | ug/l | 25.0 | ND | 97.6 | 45-145 | | | |
| **Dibromomethane** | **27.2** | 2.0 | ug/l | 25.0 | ND | 109 | 55-140 | | | |
| **1,2-Dichlorobenzene** | **25.8** | 2.0 | ug/l | 25.0 | ND | 103 | 80-120 | | | |
| **1,3-Dichlorobenzene** | **26.0** | 2.0 | ug/l | 25.0 | ND | 104 | 80-120 | | | |
| **1,4-Dichlorobenzene** | **25.1** | 2.0 | ug/l | 25.0 | ND | 100 | 80-120 | | | |
| **Dichlorodifluoromethane** | **26.5** | 5.0 | ug/l | 25.0 | ND | 106 | 25-145 | | | |
| **1,1-Dichloroethane** | **27.9** | 2.0 | ug/l | 25.0 | ND | 112 | 75-120 | | | |
| **1,2-Dichloroethane** | **59.2** | 2.0 | ug/l | 25.0 | 28 | 125 | 60-135 | | | |
| **1,1-Dichloroethene** | **27.2** | 5.0 | ug/l | 25.0 | ND | 109 | 55-120 | | | |
| **cis-1,2-Dichloroethene** | **27.2** | 2.0 | ug/l | 25.0 | ND | 109 | 75-120 | | | |
| **trans-1,2-Dichloroethene** | **27.0** | 2.0 | ug/l | 25.0 | ND | 108 | 65-120 | | | |
| **1,2-Dichloropropane** | **26.6** | 2.0 | ug/l | 25.0 | ND | 106 | 80-125 | | | |
| **1,3-Dichloropropane** | **24.7** | 2.0 | ug/l | 25.0 | ND | 98.8 | 55-140 | | | |
| **2,2-Dichloropropane** | **28.0** | 2.0 | ug/l | 25.0 | ND | 112 | 45-165 | | | |
| **1,1-Dichloropropene** | **26.7** | 2.0 | ug/l | 25.0 | ND | 107 | 80-120 | | | |

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Report Number: PKI0435

Sampled: 09/26/01
Received: 09/26/01

## METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1J1505 Extracted: 10/11/01** | | | | | | | | | | |
| **Matrix Spike Analyzed: 10/11/01 (P1J1505-MS1)** | | | | | **Source: PKI0514-03** | | | | | |
| **cis-1,3-Dichloropropene** | **24.8** | 2.0 | ug/l | 25.0 | ND | 99.2 | 80-120 | | | |
| **trans-1,3-Dichloropropene** | **25.6** | 2.0 | ug/l | 25.0 | ND | 102 | 70-120 | | | |
| **Ethylbenzene** | **46.0** | 2.0 | ug/l | 25.0 | 17 | 116 | 80-120 | | | |
| **Hexachlorobutadiene** | **25.4** | 5.0 | ug/l | 25.0 | ND | 102 | 80-135 | | | |
| **2-Hexanone** | **24.2** | 10 | ug/l | 25.0 | ND | 96.8 | 25-185 | | | |
| **Iodomethane** | **28.7** | 2.0 | ug/l | 25.0 | ND | 115 | 30-155 | | | |
| **Isopropylbenzene** | **26.6** | 2.0 | ug/l | 25.0 | ND | 106 | 80-125 | | | |
| **p-Isopropyltoluene** | **25.7** | 2.0 | ug/l | 25.0 | ND | 103 | 80-125 | | | |
| **Methylene chloride** | **25.6** | 5.0 | ug/l | 25.0 | ND | 102 | 55-125 | | | |
| **4-Methyl-2-pentanone (MIBK)** | **27.4** | 10 | ug/l | 25.0 | ND | 110 | 10-175 | | | |
| **Methyl-tert-butyl Ether (MTBE)** | **41.4** | 5.0 | ug/l | 25.0 | 12 | 118 | 55-135 | | | |
| **Naphthalene** | **23.5** | 5.0 | ug/l | 25.0 | ND | 94.0 | 15-160 | | | |
| **n-Propylbenzene** | **28.4** | 2.0 | ug/l | 25.0 | ND | 114 | 80-130 | | | |
| **Styrene** | **23.7** | 2.0 | ug/l | 25.0 | ND | 94.8 | 60-135 | | | |
| **1,1,1,2-Tetrachloroethane** | **27.4** | 5.0 | ug/l | 25.0 | ND | 110 | 80-135 | | | |
| **1,1,2,2-Tetrachloroethane** | **27.0** | 2.0 | ug/l | 25.0 | ND | 108 | 35-150 | | | |
| **Tetrachloroethene** | **25.5** | 2.0 | ug/l | 25.0 | ND | 102 | 80-120 | | | |
| **Toluene** | **42.0** | 2.0 | ug/l | 25.0 | 15 | 108 | 80-120 | | | |
| **1,2,3-Trichlorobenzene** | **26.3** | 5.0 | ug/l | 25.0 | ND | 105 | 45-145 | | | |
| **1,2,4-Trichlorobenzene** | **24.4** | 5.0 | ug/l | 25.0 | ND | 97.6 | 65-130 | | | |
| **1,1,1-Trichloroethane** | **26.8** | 2.0 | ug/l | 25.0 | ND | 107 | 80-120 | | | |
| **1,1,2-Trichloroethane** | **26.1** | 2.0 | ug/l | 25.0 | ND | 104 | 55-145 | | | |
| **Trichloroethene** | **26.2** | 2.0 | ug/l | 25.0 | ND | 105 | 80-120 | | | |
| **Trichlorofluoromethane** | **24.1** | 5.0 | ug/l | 25.0 | ND | 96.4 | 70-145 | | | |
| **1,2,3-Trichloropropane** | **24.6** | 10 | ug/l | 25.0 | ND | 98.4 | 20-160 | | | |
| **1,2,4-Trimethylbenzene** | **77.8** | 2.0 | ug/l | 25.0 | 45 | 131 | 70-135 | | | |
| **1,3,5-Trimethylbenzene** | **35.0** | 2.0 | ug/l | 25.0 | 8.6 | 106 | 80-125 | | | |
| **Vinyl acetate** | **31.0** | 25 | ug/l | 25.0 | ND | 124 | 25-130 | | | |
| **Vinyl chloride** | **33.7** | 5.0 | ug/l | 25.0 | ND | 135 | 25-135 | | | |
| **Xylenes, Total** | **261** | 10 | ug/l | 75.0 | 180 | 108 | 80-120 | | | |
| *Surrogate: Dibromofluoromethane* | *27.3* | | *ug/l* | *25.0* | | *109* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *27.6* | | *ug/l* | *25.0* | | *110* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.7* | | *ug/l* | *25.0* | | *107* | *80-120* | | | |

Melissa Evans
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150.2.2.2
Report Number: PKI0435

Sampled: 09/26/01
Received: 09/26/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1J1505 Extracted: 10/11/01** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 10/11/01 (P1J1505-MSD1)** | | | | | **Source: PKI0514-03** | | | | | |
| **Acetone** | **23.1** | 20 | ug/l | 25.0 | ND | 92.4 | 5-200 | 1.72 | 20 | |
| **Benzene** | **57.8** | 2.0 | ug/l | 25.0 | 30 | 111 | 80-120 | 1.03 | 20 | |
| **Bromobenzene** | **24.2** | 5.0 | ug/l | 25.0 | ND | 96.8 | 80-120 | 0.412 | 20 | |
| **Bromochloromethane** | **24.5** | 5.0 | ug/l | 25.0 | ND | 98.0 | 60-135 | 5.94 | 20 | |
| **Bromodichloromethane** | **25.0** | 2.0 | ug/l | 25.0 | ND | 100 | 80-120 | 2.37 | 20 | |
| **Bromoform** | **24.3** | 5.0 | ug/l | 25.0 | ND | 97.2 | 40-140 | 0.411 | 20 | |
| **Bromomethane** | **29.5** | 5.0 | ug/l | 25.0 | ND | 118 | 25-165 | 7.82 | 20 | |
| **2-Butanone (MEK)** | **22.9** | 10 | ug/l | 25.0 | ND | 91.6 | 10-160 | 3.85 | 20 | |
| **n-Butylbenzene** | **25.5** | 5.0 | ug/l | 25.0 | ND | 102 | 75-135 | 1.56 | 20 | |
| **sec-Butylbenzene** | **25.8** | 5.0 | ug/l | 25.0 | ND | 103 | 80-135 | 1.54 | 20 | |
| **tert-Butylbenzene** | **27.0** | 5.0 | ug/l | 25.0 | ND | 108 | 80-125 | 0.00 | 20 | |
| **Carbon Disulfide** | **28.2** | 5.0 | ug/l | 25.0 | ND | 113 | 20-120 | 3.83 | 20 | |
| **Carbon tetrachloride** | **28.8** | 5.0 | ug/l | 25.0 | ND | 115 | 80-145 | 0.347 | 20 | |
| **Chlorobenzene** | **26.4** | 2.0 | ug/l | 25.0 | ND | 106 | 80-120 | 0.755 | 20 | |
| **Chloroethane** | **29.7** | 5.0 | ug/l | 25.0 | ND | 119 | 30-150 | 2.33 | 20 | |
| **Chloroform** | **26.1** | 2.0 | ug/l | 25.0 | ND | 104 | 80-125 | 6.67 | 20 | |
| **Chloromethane** | **27.8** | 5.0 | ug/l | 25.0 | ND | 111 | 15-140 | 3.19 | 20 | |
| **2-Chlorotoluene** | **29.9** | 5.0 | ug/l | 25.0 | ND | 120 | 80-125 | 1.66 | 20 | |
| **4-Chlorotoluene** | **26.3** | 5.0 | ug/l | 25.0 | ND | 105 | 80-125 | 2.63 | 20 | |
| **Dibromochloromethane** | **27.0** | 2.0 | ug/l | 25.0 | ND | 108 | 75-135 | 1.12 | 20 | |
| **1,2-Dibromo-3-chloropropane** | **25.8** | 5.0 | ug/l | 25.0 | ND | 103 | 25-185 | 0.388 | 20 | |
| **1,2-Dibromoethane (EDB)** | **24.2** | 2.0 | ug/l | 25.0 | ND | 96.8 | 45-145 | 0.823 | 20 | |
| **Dibromomethane** | **26.7** | 2.0 | ug/l | 25.0 | ND | 107 | 55-140 | 1.86 | 20 | |
| **1,2-Dichlorobenzene** | **25.4** | 2.0 | ug/l | 25.0 | ND | 102 | 80-120 | 1.56 | 20 | |
| **1,3-Dichlorobenzene** | **25.7** | 2.0 | ug/l | 25.0 | ND | 103 | 80-120 | 1.16 | 20 | |
| **1,4-Dichlorobenzene** | **24.2** | 2.0 | ug/l | 25.0 | ND | 96.8 | 80-120 | 3.65 | 20 | |
| **Dichlorodifluoromethane** | **26.5** | 5.0 | ug/l | 25.0 | ND | 106 | 25-145 | 0.00 | 20 | |
| **1,1-Dichloroethane** | **26.7** | 2.0 | ug/l | 25.0 | ND | 107 | 75-120 | 4.40 | 20 | |
| **1,2-Dichloroethane** | **56.2** | 2.0 | ug/l | 25.0 | 28 | 113 | 60-135 | 5.20 | 20 | |
| **1,1-Dichloroethene** | **26.3** | 5.0 | ug/l | 25.0 | ND | 105 | 55-120 | 3.36 | 20 | |
| **cis-1,2-Dichloroethene** | **26.4** | 2.0 | ug/l | 25.0 | ND | 106 | 75-120 | 2.99 | 20 | |
| **trans-1,2-Dichloroethene** | **26.1** | 2.0 | ug/l | 25.0 | ND | 104 | 65-120 | 3.39 | 20 | |
| **1,2-Dichloropropane** | **25.2** | 2.0 | ug/l | 25.0 | ND | 101 | 80-125 | 5.41 | 20 | |
| **1,3-Dichloropropane** | **24.9** | 2.0 | ug/l | 25.0 | ND | 99.6 | 55-140 | 0.806 | 20 | |
| **2,2-Dichloropropane** | **26.8** | 2.0 | ug/l | 25.0 | ND | 107 | 45-165 | 4.38 | 20 | |
| **1,1-Dichloropropene** | **26.4** | 2.0 | ug/l | 25.0 | ND | 106 | 80-120 | 1.13 | 20 | |

Melissa Evans
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150.2.2.2
Report Number: PKI0435

Sampled: 09/26/01
Received: 09/26/01

## METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1J1505 Extracted: 10/11/01** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 10/11/01 (P1J1505-MSD1)** | | | | | **Source: PKI0514-03** | | | | | |
| **cis-1,3-Dichloropropene** | **24.2** | 2.0 | ug/l | 25.0 | ND | 96.8 | 80-120 | 2.45 | 20 | |
| **trans-1,3-Dichloropropene** | **24.5** | 2.0 | ug/l | 25.0 | ND | 98.0 | 70-120 | 4.39 | 20 | |
| **Ethylbenzene** | **45.1** | 2.0 | ug/l | 25.0 | 17 | 112 | 80-120 | 1.98 | 20 | |
| **Hexachlorobutadiene** | **24.0** | 5.0 | ug/l | 25.0 | ND | 96.0 | 80-135 | 5.67 | 20 | |
| **2-Hexanone** | **25.3** | 10 | ug/l | 25.0 | ND | 101 | 25-185 | 4.44 | 20 | |
| **Iodomethane** | **28.1** | 2.0 | ug/l | 25.0 | ND | 112 | 30-155 | 2.11 | 20 | |
| **Isopropylbenzene** | **25.8** | 2.0 | ug/l | 25.0 | ND | 103 | 80-125 | 3.05 | 20 | |
| **p-Isopropyltoluene** | **25.1** | 2.0 | ug/l | 25.0 | ND | 100 | 80-125 | 2.36 | 20 | |
| **Methylene chloride** | **24.9** | 5.0 | ug/l | 25.0 | ND | 99.6 | 55-125 | 2.77 | 20 | |
| **4-Methyl-2-pentanone (MIBK)** | **27.3** | 10 | ug/l | 25.0 | ND | 109 | 10-175 | 0.366 | 20 | |
| **Methyl-tert-butyl Ether (MTBE)** | **39.9** | 5.0 | ug/l | 25.0 | 12 | 112 | 55-135 | 3.69 | 20 | |
| **Naphthalene** | **23.2** | 5.0 | ug/l | 25.0 | ND | 92.8 | 15-160 | 1.28 | 20 | |
| **n-Propylbenzene** | **27.9** | 2.0 | ug/l | 25.0 | ND | 112 | 80-130 | 1.78 | 20 | |
| **Styrene** | **22.7** | 2.0 | ug/l | 25.0 | ND | 90.8 | 60-135 | 4.31 | 20 | |
| **1,1,1,2-Tetrachloroethane** | **27.5** | 5.0 | ug/l | 25.0 | ND | 110 | 80-135 | 0.364 | 20 | |
| **1,1,2,2-Tetrachloroethane** | **26.7** | 2.0 | ug/l | 25.0 | ND | 107 | 35-150 | 1.12 | 20 | |
| **Tetrachloroethene** | **24.8** | 2.0 | ug/l | 25.0 | ND | 99.2 | 80-120 | 2.78 | 20 | |
| **Toluene** | **40.8** | 2.0 | ug/l | 25.0 | 15 | 103 | 80-120 | 2.90 | 20 | |
| **1,2,3-Trichlorobenzene** | **25.2** | 5.0 | ug/l | 25.0 | ND | 101 | 45-145 | 4.27 | 20 | |
| **1,2,4-Trichlorobenzene** | **23.3** | 5.0 | ug/l | 25.0 | ND | 93.2 | 65-130 | 4.61 | 20 | |
| **1,1,1-Trichloroethane** | **25.9** | 2.0 | ug/l | 25.0 | ND | 104 | 80-120 | 3.42 | 20 | |
| **1,1,2-Trichloroethane** | **24.6** | 2.0 | ug/l | 25.0 | ND | 98.4 | 55-145 | 5.92 | 20 | |
| **Trichloroethene** | **25.8** | 2.0 | ug/l | 25.0 | ND | 103 | 80-120 | 1.54 | 20 | |
| **Trichlorofluoromethane** | **22.3** | 5.0 | ug/l | 25.0 | ND | 89.2 | 70-145 | 7.76 | 20 | |
| **1,2,3-Trichloropropane** | **25.0** | 10 | ug/l | 25.0 | ND | 100 | 20-160 | 1.61 | 20 | |
| **1,2,4-Trimethylbenzene** | **76.3** | 2.0 | ug/l | 25.0 | 45 | 125 | 70-135 | 1.95 | 20 | |
| **1,3,5-Trimethylbenzene** | **34.4** | 2.0 | ug/l | 25.0 | 8.6 | 103 | 80-125 | 1.73 | 20 | |
| **Vinyl acetate** | **28.9** | 25 | ug/l | 25.0 | ND | 116 | 25-130 | 7.01 | 20 | |
| **Vinyl chloride** | **31.8** | 5.0 | ug/l | 25.0 | ND | 127 | 25-135 | 5.80 | 20 | |
| **Xylenes, Total** | **258** | 10 | ug/l | 75.0 | 180 | 104 | 80-120 | 1.16 | 20 | |
| *Surrogate: Dibromofluoromethane* | *26.4* | | *ug/l* | *25.0* | | *106* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *27.3* | | *ug/l* | *25.0* | | *109* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.1* | | *ug/l* | *25.0* | | *104* | *80-120* | | | |

Melissa Evans
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150.2.2.2
Report Number: PKI0435

Sampled: 09/26/01
Received: 09/26/01

METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1I2717 Extracted: 09/27/01** | | | | | | | | | | |
| **Blank Analyzed: 09/28/01 (P1I2717-BLK1)** | | | | | | | | | | |
| Arsenic | ND | 0.050 | mg/l | | | | | | | |
| Chromium | ND | 0.010 | mg/l | | | | | | | |
| Iron | ND | 0.20 | mg/l | | | | | | | |
| Manganese | ND | 0.020 | mg/l | | | | | | | |
| Nickel | ND | 0.050 | mg/l | | | | | | | |
| **LCS Analyzed: 09/28/01 (P1I2717-BS1)** | | | | | | | | | | |
| **Arsenic** | **1.08** | 0.050 | mg/l | 1.00 | | 108 | 85-115 | | | |
| **Chromium** | **1.05** | 0.010 | mg/l | 1.00 | | 105 | 85-115 | | | |
| **Iron** | **10.9** | 0.20 | mg/l | 10.0 | | 109 | 85-115 | | | |
| **Manganese** | **1.07** | 0.020 | mg/l | 1.00 | | 107 | 85-115 | | | |
| **Nickel** | **1.04** | 0.050 | mg/l | 1.00 | | 104 | 85-115 | | | |
| **LCS Dup Analyzed: 09/28/01 (P1I2717-BSD1)** | | | | | | | | | | |
| **Arsenic** | **1.04** | 0.050 | mg/l | 1.00 | | 104 | 85-115 | 3.77 | 20 | |
| **Chromium** | **1.02** | 0.010 | mg/l | 1.00 | | 102 | 85-115 | 2.90 | 20 | |
| **Iron** | **10.6** | 0.20 | mg/l | 10.0 | | 106 | 85-115 | 2.79 | 20 | |
| **Manganese** | **1.03** | 0.020 | mg/l | 1.00 | | 103 | 85-115 | 3.81 | 20 | |
| **Nickel** | **1.01** | 0.050 | mg/l | 1.00 | | 101 | 85-115 | 2.93 | 20 | |
| **Matrix Spike Analyzed: 09/28/01 (P1I2717-MS1)** | | | | | **Source: PKI0352-01** | | | | | |
| Arsenic | ND | 50 | mg/l | 1.00 | ND | -60.0 | 70-130 | | | M4 |
| Chromium | ND | 10 | mg/l | 1.00 | ND | | 70-130 | | | M4 |
| Iron | ND | 200 | mg/l | 10.0 | ND | | 70-130 | | | M4 |
| Manganese | ND | 20 | mg/l | 1.00 | ND | | 70-130 | | | M4 |
| Nickel | ND | 50 | mg/l | 1.00 | ND | | 70-130 | | | M4 |
| **Matrix Spike Dup Analyzed: 09/28/01 (P1I2717-MSD1)** | | | | | **Source: PKI0352-01** | | | | | |
| Arsenic | ND | 50 | mg/l | 1.00 | ND | -190 | 70-130 | 9.45 | 20 | M4 |
| Chromium | ND | 10 | mg/l | 1.00 | ND | | 70-130 | | 20 | M4 |
| Iron | ND | 200 | mg/l | 10.0 | ND | | 70-130 | | 20 | M4 |
| Manganese | ND | 20 | mg/l | 1.00 | ND | | 70-130 | | 20 | M4 |
| Nickel | ND | 50 | mg/l | 1.00 | ND | | 70-130 | | 20 | M4 |

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Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150.2.2.2
Report Number: PKI0435

Sampled: 09/26/01
Received: 09/26/01

## METHOD BLANK/QC DATA

## DATA QUALIFIERS AND DEFINITIONS

| | |
|---|---|
| **H1** | Sample analysis performed past holding time. See case narrative. |
| **L3** | The associated blank spike recovery was above method acceptance limits. See case narrative. |
| **M2** | Matrix spike recovery was low, the method control sample recovery was acceptable. |
| **M4** | The analysis of the spiked sample required a dilution such that the spike concentration was diluted below the reporting limit. The method control sample recovery was acceptable. |
| **N1** | See case narrative. |
| **Q11** | Sample is heterogeneous. Sample homogeneity could not be readily achieved using routine laboratory practices. |
| **R4** | MS/MSD RPD exceeded the method control limit. Recovery met acceptance criteria. |
| **R6** | LFB/LFBD RPD exceeded the method control limit. Recovery met acceptance criteria. |
| **ND** | Analyte NOT DETECTED at or above the reporting limit |
| **NR** | Not reported. |
| **RPD** | Relative Percent Difference |

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Project Manager



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# CHAIN OF CUSTODY FORM



Client Name/Address: LAW PHX AZ

Project/PO Number: 70211-0-0150.2.22

Project Manager: JIM COOK

Phone Number: 437-0250

Sampler: PATRICK COOK

Fax Number: 437.1675

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date | Sampling Time | Preservatives | Analysis Required: 8260 | Analysis Required: As, Cr, Fe, Mn | Analysis Required: Ni | Special Instructions |
|---|---|---|---|---|---|---|---|---|---|---|
| MW9-135 | W | VOA | 1 | 9/26/01 | 1335 | | / | | | PKI 0435-01 |
| | | POLY | 1 | | 1335 | | | / | | |
| MW9-175 | | VOA | 2 | | 1342 | | / | | | -02 |
| 1 | | POLY | 1 | | 1342 | | | / | | |
| MW9-205 | | VOA | 1 | | 1357 | | / | | | -03 |
| 1 | | POLY | 1 | | 1357 | | | / | | |
| MW9-225 | | VOA | 1 | | 1415 | | / | | | -04 |
| 1 | | POLY | 1 | | 1415 | | | / | | |

| Relinquished By: | Date /Time: | Received by: | Date /Time: |
|---|---|---|---|
| | 9/26/01 1430 | Enviro Logistics | 9/26/01 1430 |
| Relinquished By: | Date /Time: | Received by: | Date /Time: |
| | 9/26/01 | CLD | |
| Relinquished By: | Date /Time: | Received in Lab by: | Date /Time: |
| Enviro Logistics | 9/26/01 1540 | | 9/26/01 1540 |

Turnaround Time: (Check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal ✓

Sample Integrity: (Check)
intact ✓ on ice ✓

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

Temp 8°C

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150.2-2.2
Report Number: PKI0340

Sampled: 09/20/01
Received: 09/21/01
Issued: 10/8/01
Revised: 11/13/01

# CASE NARRATIVE

| LABORATORY NUMBER | SAMPLE DESCRIPTION | SAMPLE MATRIX |
|---|---|---|
| PKI0340-01 | MW 11-170 | Water |
| PKI0340-02 | MW 11-200 | Water |
| PKI0340-02RE2 | MW 11-200 | Water |
| PKI0340-03 | MW 11-240 | Water |
| PKI0340-03RE1 | MW 11-240 | Water |
| PKI0340-04 | MW 10-130 | Water |
| PKI0340-04RE2 | MW 10-130 | Water |
| PKI0340-05 | MW 10-170 | Water |
| PKI0340-05RE2 | MW 10-170 | Water |
| PKI0340-06 | MW 10-235 | Water |
| PKI0340-06RE2 | MW 10-235 | Water |
| PKI0340-07 | MW 13-170 | Water |
| PKI0340-07RE2 | MW 13-170 | Water |
| PKI0340-08 | Trip Blank | Water |

SAMPLE RECEIPT: Samples were received intact, on ice, and with chain of custody documentation.

HOLDING TIMES: Holding times were met.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

OBSERVATIONS: Report was revised 11/13/01 to include Manganese results.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

QA/QC CRITERIA: The N2 flag on 8260 indicates that the Matrix Spike recovery was outside the method control limits. See Corrective Action Report.

EXPLANATION OF DATA QUALIFIERS: The L3 flag on 8260 indicates that the Laboratory Control Sample recovery was above the method control limits. Analyte not detected, data not impacted.

**DEL MAR ANALYTICAL, PHOENIX (AZ0426)**

Melissa Evans
Project Manager



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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150.2-2.2
Report Number: PKI0340

Sampled: 09/20/01
Received: 09/21/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKI0340-01 (MW 11-170 - Water)** | | | | | | | | |
| **Acetone** | EPA 8260B | P1J0325 | 10000 | **56000** | 500 | 10/3/01 | 10/3/01 | |
| Benzene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Bromobenzene | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| Bromochloromethane | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| Bromodichloromethane | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Bromoform | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| Bromomethane | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| 2-Butanone (MEK) | EPA 8260B | P1J0325 | 5000 | ND | 500 | 10/3/01 | 10/3/01 | |
| n-Butylbenzene | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| sec-Butylbenzene | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| tert-Butylbenzene | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| Carbon Disulfide | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | V1,L3 |
| Carbon tetrachloride | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| Chlorobenzene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Chloroethane | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| Chloroform | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Chloromethane | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| 2-Chlorotoluene | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| 4-Chlorotoluene | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| Dibromochloromethane | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Dibromomethane | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,2-Dichlorobenzene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,3-Dichlorobenzene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,4-Dichlorobenzene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Dichlorodifluoromethane | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,1-Dichloroethane | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | V1 |
| 1,2-Dichloroethane | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | V1 |
| 1,1-Dichloroethene | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| cis-1,2-Dichloroethene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| trans-1,2-Dichloroethene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,2-Dichloropropane | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,3-Dichloropropane | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| 2,2-Dichloropropane | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,1-Dichloropropene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| cis-1,3-Dichloropropene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |

Melissa Evans
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150.2-2.2
Report Number: PKI0340

Sampled: 09/20/01
Received: 09/21/01

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKI0340-01 (MW 11-170 - Water)** | | | | | | | | |
| trans-1,3-Dichloropropene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Ethylbenzene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Hexachlorobutadiene | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| 2-Hexanone | EPA 8260B | P1J0325 | 5000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Iodomethane | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Isopropylbenzene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| p-Isopropyltoluene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Methylene chloride | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P1J0325 | 5000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| Naphthalene | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| n-Propylbenzene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Styrene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Tetrachloroethene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Toluene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | V1,L3 |
| 1,1,2-Trichloroethane | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Trichloroethene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Trichlorofluoromethane | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P1J0325 | 5000 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Vinyl acetate | EPA 8260B | P1J0325 | 12000 | ND | 500 | 10/3/01 | 10/3/01 | V1 |
| Vinyl chloride | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| Xylenes, Total | EPA 8260B | P1J0325 | 5000 | ND | 500 | 10/3/01 | 10/3/01 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *116 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *92.4 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *106 %* | | | | |

Melissa Evans
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150.2-2.2
Report Number: PKI0340

Sampled: 09/20/01
Received: 09/21/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKI0340-02 (MW 11-200 - Water)** | | | | | | | | |
| **Acetone** | EPA 8260B | P1J0325 | 10000 | **70000** | 500 | 10/3/01 | 10/3/01 | |
| Benzene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Bromobenzene | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| Bromochloromethane | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| Bromodichloromethane | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Bromoform | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| Bromomethane | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| 2-Butanone (MEK) | EPA 8260B | P1J0325 | 5000 | ND | 500 | 10/3/01 | 10/3/01 | |
| n-Butylbenzene | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| sec-Butylbenzene | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| tert-Butylbenzene | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| Carbon Disulfide | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | V1,L3 |
| Carbon tetrachloride | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| Chlorobenzene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Chloroethane | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| Chloroform | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Chloromethane | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| 2-Chlorotoluene | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| 4-Chlorotoluene | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| Dibromochloromethane | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Dibromomethane | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,2-Dichlorobenzene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,3-Dichlorobenzene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,4-Dichlorobenzene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Dichlorodifluoromethane | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,1-Dichloroethane | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | V1 |
| 1,2-Dichloroethane | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | V1 |
| 1,1-Dichloroethene | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| cis-1,2-Dichloroethene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| trans-1,2-Dichloroethene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,2-Dichloropropane | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,3-Dichloropropane | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| 2,2-Dichloropropane | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,1-Dichloropropene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| cis-1,3-Dichloropropene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |

Melissa Evans
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150.2-2.2
Report Number: PKI0340

Sampled: 09/20/01
Received: 09/21/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKI0340-02 (MW 11-200 - Water)** | | | | | | | | |
| trans-1,3-Dichloropropene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Ethylbenzene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Hexachlorobutadiene | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| 2-Hexanone | EPA 8260B | P1J0325 | 5000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Iodomethane | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Isopropylbenzene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| p-Isopropyltoluene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Methylene chloride | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P1J0325 | 5000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| Naphthalene | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| n-Propylbenzene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Styrene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Tetrachloroethene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Toluene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | V1,L3 |
| 1,1,2-Trichloroethane | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Trichloroethene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Trichlorofluoromethane | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P1J0325 | 5000 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Vinyl acetate | EPA 8260B | P1J0325 | 12000 | ND | 500 | 10/3/01 | 10/3/01 | V1 |
| Vinyl chloride | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| Xylenes, Total | EPA 8260B | P1J0325 | 5000 | ND | 500 | 10/3/01 | 10/3/01 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *116 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *92.8 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *104 %* | | | | |

Melissa Evans
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150.2-2.2
Report Number: PKI0340

Sampled: 09/20/01
Received: 09/21/01

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKI0340-03 (MW 11-240 - Water)** | | | | | | | | |
| **Acetone** | EPA 8260B | P1J0325 | 4000 | **25000** | 200 | 10/3/01 | 10/3/01 | |
| Benzene | EPA 8260B | P1J0325 | 400 | ND | 200 | 10/3/01 | 10/3/01 | |
| Bromobenzene | EPA 8260B | P1J0325 | 1000 | ND | 200 | 10/3/01 | 10/3/01 | |
| Bromochloromethane | EPA 8260B | P1J0325 | 1000 | ND | 200 | 10/3/01 | 10/3/01 | |
| Bromodichloromethane | EPA 8260B | P1J0325 | 400 | ND | 200 | 10/3/01 | 10/3/01 | |
| Bromoform | EPA 8260B | P1J0325 | 1000 | ND | 200 | 10/3/01 | 10/3/01 | |
| Bromomethane | EPA 8260B | P1J0325 | 1000 | ND | 200 | 10/3/01 | 10/3/01 | |
| 2-Butanone (MEK) | EPA 8260B | P1J0325 | 2000 | ND | 200 | 10/3/01 | 10/3/01 | |
| n-Butylbenzene | EPA 8260B | P1J0325 | 1000 | ND | 200 | 10/3/01 | 10/3/01 | |
| sec-Butylbenzene | EPA 8260B | P1J0325 | 1000 | ND | 200 | 10/3/01 | 10/3/01 | |
| tert-Butylbenzene | EPA 8260B | P1J0325 | 1000 | ND | 200 | 10/3/01 | 10/3/01 | |
| Carbon Disulfide | EPA 8260B | P1J0325 | 1000 | ND | 200 | 10/3/01 | 10/3/01 | V1,L3 |
| Carbon tetrachloride | EPA 8260B | P1J0325 | 1000 | ND | 200 | 10/3/01 | 10/3/01 | |
| Chlorobenzene | EPA 8260B | P1J0325 | 400 | ND | 200 | 10/3/01 | 10/3/01 | |
| Chloroethane | EPA 8260B | P1J0325 | 1000 | ND | 200 | 10/3/01 | 10/3/01 | |
| Chloroform | EPA 8260B | P1J0325 | 400 | ND | 200 | 10/3/01 | 10/3/01 | |
| Chloromethane | EPA 8260B | P1J0325 | 1000 | ND | 200 | 10/3/01 | 10/3/01 | |
| 2-Chlorotoluene | EPA 8260B | P1J0325 | 1000 | ND | 200 | 10/3/01 | 10/3/01 | |
| 4-Chlorotoluene | EPA 8260B | P1J0325 | 1000 | ND | 200 | 10/3/01 | 10/3/01 | |
| Dibromochloromethane | EPA 8260B | P1J0325 | 400 | ND | 200 | 10/3/01 | 10/3/01 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P1J0325 | 1000 | ND | 200 | 10/3/01 | 10/3/01 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P1J0325 | 400 | ND | 200 | 10/3/01 | 10/3/01 | |
| Dibromomethane | EPA 8260B | P1J0325 | 400 | ND | 200 | 10/3/01 | 10/3/01 | |
| 1,2-Dichlorobenzene | EPA 8260B | P1J0325 | 400 | ND | 200 | 10/3/01 | 10/3/01 | |
| 1,3-Dichlorobenzene | EPA 8260B | P1J0325 | 400 | ND | 200 | 10/3/01 | 10/3/01 | |
| 1,4-Dichlorobenzene | EPA 8260B | P1J0325 | 400 | ND | 200 | 10/3/01 | 10/3/01 | |
| Dichlorodifluoromethane | EPA 8260B | P1J0325 | 1000 | ND | 200 | 10/3/01 | 10/3/01 | |
| 1,1-Dichloroethane | EPA 8260B | P1J0325 | 400 | ND | 200 | 10/3/01 | 10/3/01 | |
| 1,2-Dichloroethane | EPA 8260B | P1J0325 | 400 | ND | 200 | 10/3/01 | 10/3/01 | |
| 1,1-Dichloroethene | EPA 8260B | P1J0325 | 1000 | ND | 200 | 10/3/01 | 10/3/01 | |
| cis-1,2-Dichloroethene | EPA 8260B | P1J0325 | 400 | ND | 200 | 10/3/01 | 10/3/01 | |
| trans-1,2-Dichloroethene | EPA 8260B | P1J0325 | 400 | ND | 200 | 10/3/01 | 10/3/01 | |
| 1,2-Dichloropropane | EPA 8260B | P1J0325 | 400 | ND | 200 | 10/3/01 | 10/3/01 | |
| 1,3-Dichloropropane | EPA 8260B | P1J0325 | 400 | ND | 200 | 10/3/01 | 10/3/01 | |
| 2,2-Dichloropropane | EPA 8260B | P1J0325 | 400 | ND | 200 | 10/3/01 | 10/3/01 | |
| 1,1-Dichloropropene | EPA 8260B | P1J0325 | 400 | ND | 200 | 10/3/01 | 10/3/01 | |
| cis-1,3-Dichloropropene | EPA 8260B | P1J0325 | 400 | ND | 200 | 10/3/01 | 10/3/01 | |

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Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150.2-2.2
Report Number: PKI0340

Sampled: 09/20/01
Received: 09/21/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKI0340-03 (MW 11-240 - Water)** | | | | | | | | |
| trans-1,3-Dichloropropene | EPA 8260B | P1J0325 | 400 | ND | 200 | 10/3/01 | 10/3/01 | |
| Ethylbenzene | EPA 8260B | P1J0325 | 400 | ND | 200 | 10/3/01 | 10/3/01 | |
| Hexachlorobutadiene | EPA 8260B | P1J0325 | 1000 | ND | 200 | 10/3/01 | 10/3/01 | |
| 2-Hexanone | EPA 8260B | P1J0325 | 2000 | ND | 200 | 10/3/01 | 10/3/01 | |
| Iodomethane | EPA 8260B | P1J0325 | 400 | ND | 200 | 10/3/01 | 10/3/01 | |
| Isopropylbenzene | EPA 8260B | P1J0325 | 400 | ND | 200 | 10/3/01 | 10/3/01 | |
| p-Isopropyltoluene | EPA 8260B | P1J0325 | 400 | ND | 200 | 10/3/01 | 10/3/01 | |
| Methylene chloride | EPA 8260B | P1J0325 | 1000 | ND | 200 | 10/3/01 | 10/3/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P1J0325 | 2000 | ND | 200 | 10/3/01 | 10/3/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P1J0325 | 1000 | ND | 200 | 10/3/01 | 10/3/01 | |
| Naphthalene | EPA 8260B | P1J0325 | 1000 | ND | 200 | 10/3/01 | 10/3/01 | |
| n-Propylbenzene | EPA 8260B | P1J0325 | 400 | ND | 200 | 10/3/01 | 10/3/01 | |
| Styrene | EPA 8260B | P1J0325 | 400 | ND | 200 | 10/3/01 | 10/3/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P1J0325 | 1000 | ND | 200 | 10/3/01 | 10/3/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1J0325 | 400 | ND | 200 | 10/3/01 | 10/3/01 | |
| Tetrachloroethene | EPA 8260B | P1J0325 | 400 | ND | 200 | 10/3/01 | 10/3/01 | |
| Toluene | EPA 8260B | P1J0325 | 400 | ND | 200 | 10/3/01 | 10/3/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P1J0325 | 1000 | ND | 200 | 10/3/01 | 10/3/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P1J0325 | 1000 | ND | 200 | 10/3/01 | 10/3/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P1J0325 | 400 | ND | 200 | 10/3/01 | 10/3/01 | V1,L3 |
| 1,1,2-Trichloroethane | EPA 8260B | P1J0325 | 400 | ND | 200 | 10/3/01 | 10/3/01 | |
| Trichloroethene | EPA 8260B | P1J0325 | 400 | ND | 200 | 10/3/01 | 10/3/01 | |
| Trichlorofluoromethane | EPA 8260B | P1J0325 | 1000 | ND | 200 | 10/3/01 | 10/3/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P1J0325 | 2000 | ND | 200 | 10/3/01 | 10/3/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P1J0325 | 400 | ND | 200 | 10/3/01 | 10/3/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P1J0325 | 400 | ND | 200 | 10/3/01 | 10/3/01 | |
| Vinyl acetate | EPA 8260B | P1J0325 | 5000 | ND | 200 | 10/3/01 | 10/3/01 | |
| Vinyl chloride | EPA 8260B | P1J0325 | 1000 | ND | 200 | 10/3/01 | 10/3/01 | |
| Xylenes, Total | EPA 8260B | P1J0325 | 2000 | ND | 200 | 10/3/01 | 10/3/01 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *116 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *98.8 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *96.0 %* | | | | |

Melissa Evans
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150.2-2.2
Report Number: PKI0340

Sampled: 09/20/01
Received: 09/21/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKI0340-04 (MW 10-130 - Water)** | | | | | | | | |
| **Acetone** | EPA 8260B | P1J0325 | 10000 | **97000** | 500 | 10/3/01 | 10/3/01 | |
| Benzene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Bromobenzene | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| Bromochloromethane | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| Bromodichloromethane | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Bromoform | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| Bromomethane | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| 2-Butanone (MEK) | EPA 8260B | P1J0325 | 5000 | ND | 500 | 10/3/01 | 10/3/01 | |
| n-Butylbenzene | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| sec-Butylbenzene | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| tert-Butylbenzene | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| Carbon Disulfide | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | V1,L3 |
| Carbon tetrachloride | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| Chlorobenzene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Chloroethane | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| Chloroform | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Chloromethane | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| 2-Chlorotoluene | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| 4-Chlorotoluene | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| Dibromochloromethane | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Dibromomethane | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,2-Dichlorobenzene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,3-Dichlorobenzene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,4-Dichlorobenzene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Dichlorodifluoromethane | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,1-Dichloroethane | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | V1 |
| 1,2-Dichloroethane | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | V1 |
| 1,1-Dichloroethene | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| cis-1,2-Dichloroethene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| trans-1,2-Dichloroethene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,2-Dichloropropane | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,3-Dichloropropane | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| 2,2-Dichloropropane | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,1-Dichloropropene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| cis-1,3-Dichloropropene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |

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Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150.2-2.2
Report Number: PKI0340

Sampled: 09/20/01
Received: 09/21/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKI0340-04 (MW 10-130 - Water)** | | | | | | | | |
| trans-1,3-Dichloropropene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Ethylbenzene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Hexachlorobutadiene | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| 2-Hexanone | EPA 8260B | P1J0325 | 5000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Iodomethane | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Isopropylbenzene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| p-Isopropyltoluene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Methylene chloride | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P1J0325 | 5000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| Naphthalene | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| n-Propylbenzene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Styrene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Tetrachloroethene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Toluene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | V1,L3 |
| 1,1,2-Trichloroethane | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Trichloroethene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Trichlorofluoromethane | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P1J0325 | 5000 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/3/01 | |
| Vinyl acetate | EPA 8260B | P1J0325 | 12000 | ND | 500 | 10/3/01 | 10/3/01 | V1 |
| Vinyl chloride | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/3/01 | |
| Xylenes, Total | EPA 8260B | P1J0325 | 5000 | ND | 500 | 10/3/01 | 10/3/01 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *116 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *90.4 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *91.6 %* | | | | |

Melissa Evans
Project Manager



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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150.2-2.2
Report Number: PKI0340

Sampled: 09/20/01
Received: 09/21/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKI0340-05 (MW 10-170 - Water)** | | | | | | | | |
| **Acetone** | EPA 8260B | P1J0430 | 10000 | **24000** | 500 | 10/4/01 | 10/4/01 | |
| Benzene | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| Bromobenzene | EPA 8260B | P1J0430 | 2500 | ND | 500 | 10/4/01 | 10/4/01 | |
| Bromochloromethane | EPA 8260B | P1J0430 | 2500 | ND | 500 | 10/4/01 | 10/4/01 | |
| Bromodichloromethane | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| Bromoform | EPA 8260B | P1J0430 | 2500 | ND | 500 | 10/4/01 | 10/4/01 | |
| Bromomethane | EPA 8260B | P1J0430 | 2500 | ND | 500 | 10/4/01 | 10/4/01 | |
| 2-Butanone (MEK) | EPA 8260B | P1J0430 | 5000 | ND | 500 | 10/4/01 | 10/4/01 | |
| n-Butylbenzene | EPA 8260B | P1J0430 | 2500 | ND | 500 | 10/4/01 | 10/4/01 | |
| sec-Butylbenzene | EPA 8260B | P1J0430 | 2500 | ND | 500 | 10/4/01 | 10/4/01 | |
| tert-Butylbenzene | EPA 8260B | P1J0430 | 2500 | ND | 500 | 10/4/01 | 10/4/01 | |
| Carbon Disulfide | EPA 8260B | P1J0430 | 2500 | ND | 500 | 10/4/01 | 10/4/01 | V1 |
| Carbon tetrachloride | EPA 8260B | P1J0430 | 2500 | ND | 500 | 10/4/01 | 10/4/01 | |
| Chlorobenzene | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| Chloroethane | EPA 8260B | P1J0430 | 2500 | ND | 500 | 10/4/01 | 10/4/01 | |
| Chloroform | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| Chloromethane | EPA 8260B | P1J0430 | 2500 | ND | 500 | 10/4/01 | 10/4/01 | |
| 2-Chlorotoluene | EPA 8260B | P1J0430 | 2500 | ND | 500 | 10/4/01 | 10/4/01 | |
| 4-Chlorotoluene | EPA 8260B | P1J0430 | 2500 | ND | 500 | 10/4/01 | 10/4/01 | |
| Dibromochloromethane | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P1J0430 | 2500 | ND | 500 | 10/4/01 | 10/4/01 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| Dibromomethane | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| 1,2-Dichlorobenzene | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| 1,3-Dichlorobenzene | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| 1,4-Dichlorobenzene | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| Dichlorodifluoromethane | EPA 8260B | P1J0430 | 2500 | ND | 500 | 10/4/01 | 10/4/01 | V1 |
| 1,1-Dichloroethane | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | V1 |
| 1,2-Dichloroethane | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | V1 |
| 1,1-Dichloroethene | EPA 8260B | P1J0430 | 2500 | ND | 500 | 10/4/01 | 10/4/01 | |
| cis-1,2-Dichloroethene | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| trans-1,2-Dichloroethene | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| 1,2-Dichloropropane | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| 1,3-Dichloropropane | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| 2,2-Dichloropropane | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | V1,L3 |
| 1,1-Dichloropropene | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| cis-1,3-Dichloropropene | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |

Melissa Evans
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150.2-2.2
Report Number: PKI0340

Sampled: 09/20/01
Received: 09/21/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKI0340-05 (MW 10-170 - Water)** | | | | | | | | |
| trans-1,3-Dichloropropene | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| Ethylbenzene | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| Hexachlorobutadiene | EPA 8260B | P1J0430 | 2500 | ND | 500 | 10/4/01 | 10/4/01 | |
| 2-Hexanone | EPA 8260B | P1J0430 | 5000 | ND | 500 | 10/4/01 | 10/4/01 | |
| Iodomethane | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| Isopropylbenzene | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| p-Isopropyltoluene | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| Methylene chloride | EPA 8260B | P1J0430 | 2500 | ND | 500 | 10/4/01 | 10/4/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P1J0430 | 5000 | ND | 500 | 10/4/01 | 10/4/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P1J0430 | 2500 | ND | 500 | 10/4/01 | 10/4/01 | |
| Naphthalene | EPA 8260B | P1J0430 | 2500 | ND | 500 | 10/4/01 | 10/4/01 | |
| n-Propylbenzene | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| Styrene | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P1J0430 | 2500 | ND | 500 | 10/4/01 | 10/4/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| Tetrachloroethene | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| Toluene | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P1J0430 | 2500 | ND | 500 | 10/4/01 | 10/4/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P1J0430 | 2500 | ND | 500 | 10/4/01 | 10/4/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | V1,L3 |
| 1,1,2-Trichloroethane | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| Trichloroethene | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| Trichlorofluoromethane | EPA 8260B | P1J0430 | 2500 | ND | 500 | 10/4/01 | 10/4/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P1J0430 | 5000 | ND | 500 | 10/4/01 | 10/4/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| Vinyl acetate | EPA 8260B | P1J0430 | 12000 | ND | 500 | 10/4/01 | 10/4/01 | |
| Vinyl chloride | EPA 8260B | P1J0430 | 2500 | ND | 500 | 10/4/01 | 10/4/01 | |
| Xylenes, Total | EPA 8260B | P1J0430 | 5000 | ND | 500 | 10/4/01 | 10/4/01 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *113 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *90.0 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *104 %* | | | | |

Melissa Evans
Project Manager



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Law Engineering
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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150.2-2.2
Report Number: PKI0340

Sampled: 09/20/01
Received: 09/21/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKI0340-06 (MW 10-235 - Water)** | | | | | | | | |
| **Acetone** | EPA 8260B | P1J0325 | 10000 | **44000** | 500 | 10/3/01 | 10/4/01 | |
| Benzene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/4/01 | |
| Bromobenzene | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/4/01 | |
| Bromochloromethane | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/4/01 | |
| Bromodichloromethane | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/4/01 | |
| Bromoform | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/4/01 | |
| Bromomethane | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/4/01 | |
| 2-Butanone (MEK) | EPA 8260B | P1J0325 | 5000 | ND | 500 | 10/3/01 | 10/4/01 | |
| n-Butylbenzene | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/4/01 | |
| sec-Butylbenzene | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/4/01 | |
| tert-Butylbenzene | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/4/01 | |
| Carbon Disulfide | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/4/01 | V1,L3 |
| Carbon tetrachloride | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/4/01 | |
| Chlorobenzene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/4/01 | |
| Chloroethane | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/4/01 | |
| Chloroform | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/4/01 | |
| Chloromethane | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/4/01 | |
| 2-Chlorotoluene | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/4/01 | |
| 4-Chlorotoluene | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/4/01 | |
| Dibromochloromethane | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/4/01 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/4/01 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/4/01 | |
| Dibromomethane | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/4/01 | |
| 1,2-Dichlorobenzene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/4/01 | |
| 1,3-Dichlorobenzene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/4/01 | |
| 1,4-Dichlorobenzene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/4/01 | |
| Dichlorodifluoromethane | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/4/01 | |
| 1,1-Dichloroethane | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/4/01 | V1 |
| 1,2-Dichloroethane | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/4/01 | V1 |
| 1,1-Dichloroethene | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/4/01 | |
| cis-1,2-Dichloroethene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/4/01 | |
| trans-1,2-Dichloroethene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/4/01 | |
| 1,2-Dichloropropane | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/4/01 | |
| 1,3-Dichloropropane | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/4/01 | |
| 2,2-Dichloropropane | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/4/01 | |
| 1,1-Dichloropropene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/4/01 | |
| cis-1,3-Dichloropropene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/4/01 | |

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Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150.2-2.2
Report Number: PKI0340

Sampled: 09/20/01
Received: 09/21/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKI0340-06 (MW 10-235 - Water)** | | | | | | | | |
| trans-1,3-Dichloropropene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/4/01 | |
| Ethylbenzene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/4/01 | |
| Hexachlorobutadiene | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/4/01 | |
| 2-Hexanone | EPA 8260B | P1J0325 | 5000 | ND | 500 | 10/3/01 | 10/4/01 | |
| Iodomethane | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/4/01 | |
| Isopropylbenzene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/4/01 | |
| p-Isopropyltoluene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/4/01 | |
| Methylene chloride | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/4/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P1J0325 | 5000 | ND | 500 | 10/3/01 | 10/4/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/4/01 | |
| Naphthalene | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/4/01 | |
| n-Propylbenzene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/4/01 | |
| Styrene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/4/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/4/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/4/01 | |
| Tetrachloroethene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/4/01 | |
| Toluene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/4/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/4/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/4/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/4/01 | V1,L3 |
| 1,1,2-Trichloroethane | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/4/01 | |
| Trichloroethene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/4/01 | |
| Trichlorofluoromethane | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/4/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P1J0325 | 5000 | ND | 500 | 10/3/01 | 10/4/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/4/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P1J0325 | 1000 | ND | 500 | 10/3/01 | 10/4/01 | |
| Vinyl acetate | EPA 8260B | P1J0325 | 12000 | ND | 500 | 10/3/01 | 10/4/01 | V1 |
| Vinyl chloride | EPA 8260B | P1J0325 | 2500 | ND | 500 | 10/3/01 | 10/4/01 | |
| Xylenes, Total | EPA 8260B | P1J0325 | 5000 | ND | 500 | 10/3/01 | 10/4/01 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *119 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *84.8 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *104 %* | | | | |

Melissa Evans
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150.2-2.2
Report Number: PKI0340

Sampled: 09/20/01
Received: 09/21/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKI0340-07 (MW 13-170 - Water)** | | | | | | | | |
| **Acetone** | EPA 8260B | P1J0430 | 10000 | **24000** | 500 | 10/4/01 | 10/4/01 | |
| Benzene | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| Bromobenzene | EPA 8260B | P1J0430 | 2500 | ND | 500 | 10/4/01 | 10/4/01 | |
| Bromochloromethane | EPA 8260B | P1J0430 | 2500 | ND | 500 | 10/4/01 | 10/4/01 | |
| Bromodichloromethane | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| Bromoform | EPA 8260B | P1J0430 | 2500 | ND | 500 | 10/4/01 | 10/4/01 | |
| Bromomethane | EPA 8260B | P1J0430 | 2500 | ND | 500 | 10/4/01 | 10/4/01 | |
| 2-Butanone (MEK) | EPA 8260B | P1J0430 | 5000 | ND | 500 | 10/4/01 | 10/4/01 | |
| n-Butylbenzene | EPA 8260B | P1J0430 | 2500 | ND | 500 | 10/4/01 | 10/4/01 | |
| sec-Butylbenzene | EPA 8260B | P1J0430 | 2500 | ND | 500 | 10/4/01 | 10/4/01 | |
| tert-Butylbenzene | EPA 8260B | P1J0430 | 2500 | ND | 500 | 10/4/01 | 10/4/01 | |
| Carbon Disulfide | EPA 8260B | P1J0430 | 2500 | ND | 500 | 10/4/01 | 10/4/01 | V1 |
| Carbon tetrachloride | EPA 8260B | P1J0430 | 2500 | ND | 500 | 10/4/01 | 10/4/01 | |
| Chlorobenzene | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| Chloroethane | EPA 8260B | P1J0430 | 2500 | ND | 500 | 10/4/01 | 10/4/01 | |
| Chloroform | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| Chloromethane | EPA 8260B | P1J0430 | 2500 | ND | 500 | 10/4/01 | 10/4/01 | |
| 2-Chlorotoluene | EPA 8260B | P1J0430 | 2500 | ND | 500 | 10/4/01 | 10/4/01 | |
| 4-Chlorotoluene | EPA 8260B | P1J0430 | 2500 | ND | 500 | 10/4/01 | 10/4/01 | |
| Dibromochloromethane | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P1J0430 | 2500 | ND | 500 | 10/4/01 | 10/4/01 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| Dibromomethane | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| 1,2-Dichlorobenzene | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| 1,3-Dichlorobenzene | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| 1,4-Dichlorobenzene | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| Dichlorodifluoromethane | EPA 8260B | P1J0430 | 2500 | ND | 500 | 10/4/01 | 10/4/01 | V1 |
| 1,1-Dichloroethane | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | V1 |
| 1,2-Dichloroethane | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | V1 |
| 1,1-Dichloroethene | EPA 8260B | P1J0430 | 2500 | ND | 500 | 10/4/01 | 10/4/01 | |
| cis-1,2-Dichloroethene | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| trans-1,2-Dichloroethene | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| 1,2-Dichloropropane | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| 1,3-Dichloropropane | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| 2,2-Dichloropropane | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | V1,L3 |
| 1,1-Dichloropropene | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| cis-1,3-Dichloropropene | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |

Melissa Evans
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150.2-2.2
Report Number: PKI0340

Sampled: 09/20/01
Received: 09/21/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKI0340-07 (MW 13-170 - Water)** | | | | | | | | |
| trans-1,3-Dichloropropene | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| Ethylbenzene | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| Hexachlorobutadiene | EPA 8260B | P1J0430 | 2500 | ND | 500 | 10/4/01 | 10/4/01 | |
| 2-Hexanone | EPA 8260B | P1J0430 | 5000 | ND | 500 | 10/4/01 | 10/4/01 | |
| Iodomethane | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| Isopropylbenzene | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| p-Isopropyltoluene | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| Methylene chloride | EPA 8260B | P1J0430 | 2500 | ND | 500 | 10/4/01 | 10/4/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P1J0430 | 5000 | ND | 500 | 10/4/01 | 10/4/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P1J0430 | 2500 | ND | 500 | 10/4/01 | 10/4/01 | |
| Naphthalene | EPA 8260B | P1J0430 | 2500 | ND | 500 | 10/4/01 | 10/4/01 | |
| n-Propylbenzene | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| Styrene | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P1J0430 | 2500 | ND | 500 | 10/4/01 | 10/4/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| Tetrachloroethene | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| Toluene | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P1J0430 | 2500 | ND | 500 | 10/4/01 | 10/4/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P1J0430 | 2500 | ND | 500 | 10/4/01 | 10/4/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | V1,L3 |
| 1,1,2-Trichloroethane | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| Trichloroethene | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| Trichlorofluoromethane | EPA 8260B | P1J0430 | 2500 | ND | 500 | 10/4/01 | 10/4/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P1J0430 | 5000 | ND | 500 | 10/4/01 | 10/4/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P1J0430 | 1000 | ND | 500 | 10/4/01 | 10/4/01 | |
| Vinyl acetate | EPA 8260B | P1J0430 | 12000 | ND | 500 | 10/4/01 | 10/4/01 | |
| Vinyl chloride | EPA 8260B | P1J0430 | 2500 | ND | 500 | 10/4/01 | 10/4/01 | |
| Xylenes, Total | EPA 8260B | P1J0430 | 5000 | ND | 500 | 10/4/01 | 10/4/01 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *112 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *90.0 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *103 %* | | | | |

Melissa Evans
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150.2-2.2
Report Number: PKI0340

Sampled: 09/20/01
Received: 09/21/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKI0340-08 (Trip Blank - Water)** | | | | | | | | |
| **Acetone** | EPA 8260B | P1J0325 | 20 | **32** | 1 | 10/3/01 | 10/3/01 | |
| Benzene | EPA 8260B | P1J0325 | 2.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| Bromobenzene | EPA 8260B | P1J0325 | 5.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| Bromochloromethane | EPA 8260B | P1J0325 | 5.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| Bromodichloromethane | EPA 8260B | P1J0325 | 2.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| Bromoform | EPA 8260B | P1J0325 | 5.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| Bromomethane | EPA 8260B | P1J0325 | 5.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| 2-Butanone (MEK) | EPA 8260B | P1J0325 | 10 | ND | 1 | 10/3/01 | 10/3/01 | |
| n-Butylbenzene | EPA 8260B | P1J0325 | 5.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| sec-Butylbenzene | EPA 8260B | P1J0325 | 5.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| tert-Butylbenzene | EPA 8260B | P1J0325 | 5.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| Carbon Disulfide | EPA 8260B | P1J0325 | 5.0 | ND | 1 | 10/3/01 | 10/3/01 | V1,L3 |
| Carbon tetrachloride | EPA 8260B | P1J0325 | 5.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| Chlorobenzene | EPA 8260B | P1J0325 | 2.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| Chloroethane | EPA 8260B | P1J0325 | 5.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| Chloroform | EPA 8260B | P1J0325 | 2.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| Chloromethane | EPA 8260B | P1J0325 | 5.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| 2-Chlorotoluene | EPA 8260B | P1J0325 | 5.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| 4-Chlorotoluene | EPA 8260B | P1J0325 | 5.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| Dibromochloromethane | EPA 8260B | P1J0325 | 2.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P1J0325 | 5.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P1J0325 | 2.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| Dibromomethane | EPA 8260B | P1J0325 | 2.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| 1,2-Dichlorobenzene | EPA 8260B | P1J0325 | 2.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| 1,3-Dichlorobenzene | EPA 8260B | P1J0325 | 2.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| 1,4-Dichlorobenzene | EPA 8260B | P1J0325 | 2.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| Dichlorodifluoromethane | EPA 8260B | P1J0325 | 5.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| 1,1-Dichloroethane | EPA 8260B | P1J0325 | 2.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| 1,2-Dichloroethane | EPA 8260B | P1J0325 | 2.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| 1,1-Dichloroethene | EPA 8260B | P1J0325 | 5.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| cis-1,2-Dichloroethene | EPA 8260B | P1J0325 | 2.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| trans-1,2-Dichloroethene | EPA 8260B | P1J0325 | 2.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| 1,2-Dichloropropane | EPA 8260B | P1J0325 | 2.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| 1,3-Dichloropropane | EPA 8260B | P1J0325 | 2.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| 2,2-Dichloropropane | EPA 8260B | P1J0325 | 2.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| 1,1-Dichloropropene | EPA 8260B | P1J0325 | 2.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| cis-1,3-Dichloropropene | EPA 8260B | P1J0325 | 2.0 | ND | 1 | 10/3/01 | 10/3/01 | |

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150.2-2.2
Report Number: PKI0340

Sampled: 09/20/01
Received: 09/21/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKI0340-08 (Trip Blank - Water)** | | | | | | | | |
| trans-1,3-Dichloropropene | EPA 8260B | P1J0325 | 2.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| Ethylbenzene | EPA 8260B | P1J0325 | 2.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| Hexachlorobutadiene | EPA 8260B | P1J0325 | 5.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| 2-Hexanone | EPA 8260B | P1J0325 | 10 | ND | 1 | 10/3/01 | 10/3/01 | |
| Iodomethane | EPA 8260B | P1J0325 | 2.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| Isopropylbenzene | EPA 8260B | P1J0325 | 2.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| p-Isopropyltoluene | EPA 8260B | P1J0325 | 2.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| Methylene chloride | EPA 8260B | P1J0325 | 5.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P1J0325 | 10 | ND | 1 | 10/3/01 | 10/3/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P1J0325 | 5.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| Naphthalene | EPA 8260B | P1J0325 | 5.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| n-Propylbenzene | EPA 8260B | P1J0325 | 2.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| Styrene | EPA 8260B | P1J0325 | 2.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P1J0325 | 5.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1J0325 | 2.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| Tetrachloroethene | EPA 8260B | P1J0325 | 2.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| Toluene | EPA 8260B | P1J0325 | 2.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P1J0325 | 5.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P1J0325 | 5.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P1J0325 | 2.0 | ND | 1 | 10/3/01 | 10/3/01 | V1,L3 |
| 1,1,2-Trichloroethane | EPA 8260B | P1J0325 | 2.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| Trichloroethene | EPA 8260B | P1J0325 | 2.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| Trichlorofluoromethane | EPA 8260B | P1J0325 | 5.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P1J0325 | 10 | ND | 1 | 10/3/01 | 10/3/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P1J0325 | 2.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P1J0325 | 2.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| Vinyl acetate | EPA 8260B | P1J0325 | 25 | ND | 1 | 10/3/01 | 10/3/01 | |
| Vinyl chloride | EPA 8260B | P1J0325 | 5.0 | ND | 1 | 10/3/01 | 10/3/01 | |
| Xylenes, Total | EPA 8260B | P1J0325 | 10 | ND | 1 | 10/3/01 | 10/3/01 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *115 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *97.6 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *102 %* | | | | |

**DEL MAR ANALYTICAL, PHOENIX (AZ0426**

Melissa Evans
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150.2-2.2
Report Number: PKI0340

Sampled: 09/20/01
Received: 09/21/01

# TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKI0340-01 (MW 11-170 - Water)** | | | | | | | | |
| Arsenic | EPA 200.7 | P1I2613 | 0.050 | ND | 1 | 9/26/01 | 9/26/01 | |
| Chromium | EPA 200.7 | P1I2613 | 0.010 | ND | 1 | 9/26/01 | 9/26/01 | |
| Iron | EPA 200.7 | P1I2613 | 0.20 | ND | 1 | 9/26/01 | 9/26/01 | |
| **Magnesium** | EPA 200.7 | P1I2613 | 0.50 | **49** | 1 | 9/26/01 | 9/26/01 | |
| **Manganese** | EPA 200.7 | P1I2613 | 0.020 | **2.3** | 1 | 9/26/01 | 9/26/01 | |
| Nickel | EPA 200.7 | P1I2613 | 0.050 | ND | 1 | 9/26/01 | 9/26/01 | |
| **Sample ID: PKI0340-02 (MW 11-200 - Water)** | | | | | | | | |
| **Manganese** | EPA 200.7 | P1J0212 | 0.020 | **1.8** | 1 | 10/2/01 | 10/4/01 | |
| **Sample ID: PKI0340-02RE2 (MW 11-200 - Water)** | | | | | | | | |
| Arsenic | EPA 200.7 | P1J0212 | 0.050 | ND | 1 | 10/2/01 | 10/4/01 | |
| Chromium | EPA 200.7 | P1J0212 | 0.010 | ND | 1 | 10/2/01 | 10/4/01 | |
| **Iron** | EPA 200.7 | P1J0212 | 0.20 | **0.70** | 1 | 10/2/01 | 10/4/01 | |
| **Magnesium** | EPA 200.7 | P1J0212 | 0.50 | **48** | 1 | 10/2/01 | 10/4/01 | |
| Nickel | EPA 200.7 | P1J0212 | 0.050 | ND | 1 | 10/2/01 | 10/4/01 | |
| **Sample ID: PKI0340-03 (MW 11-240 - Water)** | | | | | | | | |
| Chromium | EPA 200.7 | P1I2613 | 0.010 | ND | 1 | 9/26/01 | 9/26/01 | |
| **Iron** | EPA 200.7 | P1I2613 | 0.20 | **0.22** | 1 | 9/26/01 | 9/26/01 | |
| **Magnesium** | EPA 200.7 | P1I2613 | 0.50 | **76** | 1 | 9/26/01 | 9/26/01 | |
| **Manganese** | EPA 200.7 | P1I2613 | 0.020 | **2.7** | 1 | 9/26/01 | 9/26/01 | |
| Nickel | EPA 200.7 | P1I2613 | 0.050 | ND | 1 | 9/26/01 | 9/26/01 | |
| **Sample ID: PKI0340-03RE1 (MW 11-240 - Water)** | | | | | | | | |
| Arsenic | EPA 200.7 | P1I2721 | 0.050 | ND | 1 | 9/27/01 | 9/28/01 | |

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Attention: Jim Clarke

Client Project ID: 70211-0-0150.2-2.2
Report Number: PKI0340

Sampled: 09/20/01
Received: 09/21/01

## TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKI0340-04 (MW 10-130 - Water)** | | | | | | | | |
| **Manganese** | EPA 200.7 | P1J0212 | 0.020 | **4.5** | 1 | 10/2/01 | 10/4/01 | |
| **Sample ID: PKI0340-04RE2 (MW 10-130 - Water)** | | | | | | | | |
| Arsenic | EPA 200.7 | P1J0212 | 0.050 | ND | 1 | 10/2/01 | 10/4/01 | |
| **Chromium** | EPA 200.7 | P1J0212 | 0.010 | **0.039** | 1 | 10/2/01 | 10/4/01 | |
| **Iron** | EPA 200.7 | P1J0212 | 0.20 | **5.6** | 1 | 10/2/01 | 10/4/01 | |
| **Magnesium** | EPA 200.7 | P1J0212 | 0.50 | **47** | 1 | 10/2/01 | 10/4/01 | |
| Nickel | EPA 200.7 | P1J0212 | 0.050 | ND | 1 | 10/2/01 | 10/4/01 | |
| **Sample ID: PKI0340-05 (MW 10-170 - Water)** | | | | | | | | |
| **Manganese** | EPA 200.7 | P1J0310 | 0.020 | **4.6** | 1 | 10/3/01 | 10/4/01 | |
| **Sample ID: PKI0340-05RE2 (MW 10-170 - Water)** | | | | | | | | |
| Arsenic | EPA 200.7 | P1J0310 | 0.050 | ND | 1 | 9/28/01 | 10/4/01 | |
| Chromium | EPA 200.7 | P1J0310 | 0.010 | ND | 1 | 9/28/01 | 10/4/01 | |
| **Iron** | EPA 200.7 | P1J0310 | 0.20 | **2.2** | 1 | 9/28/01 | 10/4/01 | |
| **Magnesium** | EPA 200.7 | P1J0310 | 0.50 | **55** | 1 | 9/28/01 | 10/4/01 | |
| Nickel | EPA 200.7 | P1J0310 | 0.050 | ND | 1 | 9/28/01 | 10/4/01 | |
| **Sample ID: PKI0340-06 (MW 10-235 - Water)** | | | | | | | | |
| **Manganese** | EPA 200.7 | P1J0212 | 0.020 | **2.5** | 1 | 10/2/01 | 10/4/01 | |
| **Sample ID: PKI0340-06RE2 (MW 10-235 - Water)** | | | | | | | | |
| Arsenic | EPA 200.7 | P1J0212 | 0.050 | ND | 1 | 10/2/01 | 10/4/01 | |
| Chromium | EPA 200.7 | P1J0212 | 0.010 | ND | 1 | 10/2/01 | 10/4/01 | |
| **Iron** | EPA 200.7 | P1J0212 | 0.20 | **1.3** | 1 | 10/2/01 | 10/4/01 | |
| **Magnesium** | EPA 200.7 | P1J0212 | 0.50 | **72** | 1 | 10/2/01 | 10/4/01 | |
| Nickel | EPA 200.7 | P1J0212 | 0.050 | ND | 1 | 10/2/01 | 10/4/01 | |

Melissa Evans
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150.2-2.2
Report Number: PKI0340

Sampled: 09/20/01
Received: 09/21/01

## TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: PKI0340-07 (MW 13-170 - Water)** | | | | | | | | |
| **Manganese** | EPA 200.7 | P1J0212 | 0.020 | **4.6** | 1 | 10/2/01 | 10/4/01 | |
| **Sample ID: PKI0340-07RE2 (MW 13-170 - Water)** | | | | | | | | |
| Arsenic | EPA 200.7 | P1J0212 | 0.050 | ND | 1 | 10/2/01 | 10/4/01 | |
| Chromium | EPA 200.7 | P1J0212 | 0.010 | ND | 1 | 10/2/01 | 10/4/01 | |
| **Iron** | EPA 200.7 | P1J0212 | 0.20 | **2.9** | 1 | 10/2/01 | 10/4/01 | |
| **Magnesium** | EPA 200.7 | P1J0212 | 0.50 | **56** | 1 | 10/2/01 | 10/4/01 | |
| Nickel | EPA 200.7 | P1J0212 | 0.050 | ND | 1 | 10/2/01 | 10/4/01 | |

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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150.2-2.2
Report Number: PKI0340

Sampled: 09/20/01
Received: 09/21/01

METHOD BLANK QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1J0325 Extracted: 10/03/01** | | | | | | | | | | |
| **Blank Analyzed: 10/03/01 (P1J0325-BLK1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | |
| Benzene | ND | 2.0 | ug/l | | | | | | | |
| Bromobenzene | ND | 5.0 | ug/l | | | | | | | |
| Bromochloromethane | ND | 5.0 | ug/l | | | | | | | |
| Bromodichloromethane | ND | 2.0 | ug/l | | | | | | | |
| Bromoform | ND | 5.0 | ug/l | | | | | | | |
| Bromomethane | ND | 5.0 | ug/l | | | | | | | |
| 2-Butanone (MEK) | ND | 10 | ug/l | | | | | | | |
| n-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| sec-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| tert-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| Carbon Disulfide | ND | 5.0 | ug/l | | | | | | | |
| Carbon tetrachloride | ND | 5.0 | ug/l | | | | | | | |
| Chlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| Chloroethane | ND | 5.0 | ug/l | | | | | | | |
| Chloroform | ND | 2.0 | ug/l | | | | | | | |
| Chloromethane | ND | 5.0 | ug/l | | | | | | | |
| 2-Chlorotoluene | ND | 5.0 | ug/l | | | | | | | |
| 4-Chlorotoluene | ND | 5.0 | ug/l | | | | | | | |
| Dibromochloromethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/l | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 2.0 | ug/l | | | | | | | |
| Dibromomethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| Dichlorodifluoromethane | ND | 5.0 | ug/l | | | | | | | |
| 1,1-Dichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,1-Dichloroethene | ND | 5.0 | ug/l | | | | | | | |
| cis-1,2-Dichloroethene | ND | 2.0 | ug/l | | | | | | | |
| trans-1,2-Dichloroethene | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,3-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 2,2-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |

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Law Engineering
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Attention: Jim Clarke

Client Project ID: 70211-0-0150.2-2.2
Report Number: PKI0340

Sampled: 09/20/01
Received: 09/21/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1J0325 Extracted: 10/03/01** | | | | | | | | | | |
| **Blank Analyzed: 10/03/01 (P1J0325-BLK1)** | | | | | | | | | | |
| 1,1-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| cis-1,3-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| Ethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 5.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 10 | ug/l | | | | | | | |
| Iodomethane | ND | 2.0 | ug/l | | | | | | | |
| Isopropylbenzene | ND | 2.0 | ug/l | | | | | | | |
| p-Isopropyltoluene | ND | 2.0 | ug/l | | | | | | | |
| Methylene chloride | ND | 5.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 5.0 | ug/l | | | | | | | |
| Naphthalene | ND | 5.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Styrene | ND | 2.0 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/l | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 2.0 | ug/l | | | | | | | |
| Toluene | ND | 2.0 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 5.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,1,2-Trichloroethane | ND | 2.0 | ug/l | | | | | | | |
| Trichloroethene | ND | 2.0 | ug/l | | | | | | | |
| Trichlorofluoromethane | ND | 5.0 | ug/l | | | | | | | |
| 1,2,3-Trichloropropane | ND | 10 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Vinyl acetate | ND | 25 | ug/l | | | | | | | |
| Vinyl chloride | ND | 5.0 | ug/l | | | | | | | |
| Xylenes, Total | ND | 10 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *27.6* | | *ug/l* | *25.0* | | *110* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *25.8* | | *ug/l* | *25.0* | | *103* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *24.4* | | *ug/l* | *25.0* | | *97.6* | *80-120* | | | |

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Project Manager



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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150.2-2.2
Report Number: PKI0340

Sampled: 09/20/01
Received: 09/21/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1J0325 Extracted: 10/03/01** | | | | | | | | | | |
| **LCS Analyzed: 10/03/01 (P1J0325-BS1)** | | | | | | | | | | |
| Acetone | 20.7 | 20 | ug/l | 25.0 | | 82.8 | 30-200 | | | |
| Benzene | 24.5 | 2.0 | ug/l | 25.0 | | 98.0 | 80-120 | | | |
| Bromobenzene | 26.0 | 5.0 | ug/l | 25.0 | | 104 | 80-120 | | | |
| Bromochloromethane | 26.6 | 5.0 | ug/l | 25.0 | | 106 | 80-120 | | | |
| Bromodichloromethane | 28.9 | 2.0 | ug/l | 25.0 | | 116 | 80-130 | | | |
| Bromoform | 29.3 | 5.0 | ug/l | 25.0 | | 117 | 60-140 | | | |
| Bromomethane | 21.9 | 5.0 | ug/l | 25.0 | | 87.6 | 60-150 | | | |
| 2-Butanone (MEK) | 24.2 | 10 | ug/l | 25.0 | | 96.8 | 30-185 | | | |
| n-Butylbenzene | 26.6 | 5.0 | ug/l | 25.0 | | 106 | 75-130 | | | |
| sec-Butylbenzene | 26.7 | 5.0 | ug/l | 25.0 | | 107 | 80-125 | | | |
| tert-Butylbenzene | 27.2 | 5.0 | ug/l | 25.0 | | 109 | 80-120 | | | |
| Carbon Disulfide | 31.4 | 5.0 | ug/l | 25.0 | | 126 | 65-120 | | | V1,L3 |
| Carbon tetrachloride | 33.3 | 5.0 | ug/l | 25.0 | | 133 | 75-150 | | | |
| Chlorobenzene | 24.7 | 2.0 | ug/l | 25.0 | | 98.8 | 80-120 | | | |
| Chloroethane | 22.8 | 5.0 | ug/l | 25.0 | | 91.2 | 80-125 | | | |
| Chloroform | 28.8 | 2.0 | ug/l | 25.0 | | 115 | 80-120 | | | |
| Chloromethane | 18.4 | 5.0 | ug/l | 25.0 | | 73.6 | 60-125 | | | |
| 2-Chlorotoluene | 26.5 | 5.0 | ug/l | 25.0 | | 106 | 80-120 | | | |
| 4-Chlorotoluene | 27.3 | 5.0 | ug/l | 25.0 | | 109 | 80-120 | | | |
| Dibromochloromethane | 30.5 | 2.0 | ug/l | 25.0 | | 122 | 70-150 | | | |
| 1,2-Dibromo-3-chloropropane | 29.2 | 5.0 | ug/l | 25.0 | | 117 | 50-145 | | | |
| 1,2-Dibromoethane (EDB) | 26.3 | 2.0 | ug/l | 25.0 | | 105 | 75-120 | | | |
| Dibromomethane | 24.5 | 2.0 | ug/l | 25.0 | | 98.0 | 80-120 | | | |
| 1,2-Dichlorobenzene | 27.0 | 2.0 | ug/l | 25.0 | | 108 | 80-120 | | | |
| 1,3-Dichlorobenzene | 27.3 | 2.0 | ug/l | 25.0 | | 109 | 80-120 | | | |
| 1,4-Dichlorobenzene | 27.6 | 2.0 | ug/l | 25.0 | | 110 | 80-120 | | | |
| Dichlorodifluoromethane | 31.6 | 5.0 | ug/l | 25.0 | | 126 | 25-140 | | | |
| 1,1-Dichloroethane | 30.1 | 2.0 | ug/l | 25.0 | | 120 | 80-120 | | | |
| 1,2-Dichloroethane | 28.7 | 2.0 | ug/l | 25.0 | | 115 | 80-120 | | | |
| 1,1-Dichloroethene | 29.1 | 5.0 | ug/l | 25.0 | | 116 | 80-120 | | | |
| cis-1,2-Dichloroethene | 29.9 | 2.0 | ug/l | 25.0 | | 120 | 80-120 | | | |
| trans-1,2-Dichloroethene | 29.4 | 2.0 | ug/l | 25.0 | | 118 | 80-120 | | | |
| 1,2-Dichloropropane | 25.6 | 2.0 | ug/l | 25.0 | | 102 | 80-120 | | | |
| 1,3-Dichloropropane | 27.5 | 2.0 | ug/l | 25.0 | | 110 | 80-120 | | | |
| 2,2-Dichloropropane | 33.2 | 2.0 | ug/l | 25.0 | | 133 | 75-135 | | | |
| 1,1-Dichloropropene | 29.0 | 2.0 | ug/l | 25.0 | | 116 | 80-120 | | | |

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Project Manager



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Attention: Jim Clarke

Client Project ID: 70211-0-0150.2-2.2
Report Number: PKI0340

Sampled: 09/20/01
Received: 09/21/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1J0325 Extracted: 10/03/01** | | | | | | | | | | |
| **LCS Analyzed: 10/03/01 (P1J0325-BS1)** | | | | | | | | | | |
| **cis-1,3-Dichloropropene** | **27.0** | 2.0 | ug/l | 25.0 | | 108 | 80-120 | | | |
| **trans-1,3-Dichloropropene** | **28.9** | 2.0 | ug/l | 25.0 | | 116 | 80-120 | | | |
| **Ethylbenzene** | **24.2** | 2.0 | ug/l | 25.0 | | 96.8 | 80-120 | | | |
| **Hexachlorobutadiene** | **16.8** | 5.0 | ug/l | 25.0 | | 67.2 | 60-145 | | | |
| **2-Hexanone** | **23.8** | 10 | ug/l | 25.0 | | 95.2 | 50-170 | | | |
| **Iodomethane** | **20.6** | 2.0 | ug/l | 25.0 | | 82.4 | 40-155 | | | |
| **Isopropylbenzene** | **26.0** | 2.0 | ug/l | 25.0 | | 104 | 80-120 | | | |
| **p-Isopropyltoluene** | **26.3** | 2.0 | ug/l | 25.0 | | 105 | 80-120 | | | |
| **Methylene chloride** | **21.7** | 5.0 | ug/l | 25.0 | | 86.8 | 80-120 | | | |
| **4-Methyl-2-pentanone (MIBK)** | **22.4** | 10 | ug/l | 25.0 | | 89.6 | 70-140 | | | |
| **Methyl-tert-butyl Ether (MTBE)** | **28.0** | 5.0 | ug/l | 25.0 | | 112 | 75-135 | | | |
| **Naphthalene** | **21.6** | 5.0 | ug/l | 25.0 | | 86.4 | 70-130 | | | |
| **n-Propylbenzene** | **27.7** | 2.0 | ug/l | 25.0 | | 111 | 80-120 | | | |
| **Styrene** | **25.8** | 2.0 | ug/l | 25.0 | | 103 | 80-120 | | | |
| **1,1,1,2-Tetrachloroethane** | **30.8** | 5.0 | ug/l | 25.0 | | 123 | 65-150 | | | |
| **1,1,2,2-Tetrachloroethane** | **25.2** | 2.0 | ug/l | 25.0 | | 101 | 70-130 | | | |
| **Tetrachloroethene** | **25.8** | 2.0 | ug/l | 25.0 | | 103 | 80-125 | | | |
| **Toluene** | **24.3** | 2.0 | ug/l | 25.0 | | 97.2 | 80-120 | | | |
| **1,2,3-Trichlorobenzene** | **21.5** | 5.0 | ug/l | 25.0 | | 86.0 | 75-125 | | | |
| **1,2,4-Trichlorobenzene** | **23.7** | 5.0 | ug/l | 25.0 | | 94.8 | 80-120 | | | |
| **1,1,1-Trichloroethane** | **31.9** | 2.0 | ug/l | 25.0 | | 128 | 80-120 | | | V1,L3 |
| **1,1,2-Trichloroethane** | **27.2** | 2.0 | ug/l | 25.0 | | 109 | 80-120 | | | |
| **Trichloroethene** | **26.1** | 2.0 | ug/l | 25.0 | | 104 | 80-120 | | | |
| **Trichlorofluoromethane** | **30.4** | 5.0 | ug/l | 25.0 | | 122 | 75-150 | | | |
| **1,2,3-Trichloropropane** | **26.8** | 10 | ug/l | 25.0 | | 107 | 65-135 | | | |
| **1,2,4-Trimethylbenzene** | **27.4** | 2.0 | ug/l | 25.0 | | 110 | 80-120 | | | |
| **1,3,5-Trimethylbenzene** | **27.4** | 2.0 | ug/l | 25.0 | | 110 | 80-120 | | | |
| **Vinyl acetate** | **27.6** | 25 | ug/l | 25.0 | | 110 | 40-120 | | | |
| **Vinyl chloride** | **23.9** | 5.0 | ug/l | 25.0 | | 95.6 | 80-120 | | | |
| **Xylenes, Total** | **71.9** | 10 | ug/l | 75.0 | | 95.9 | 80-120 | | | |
| *Surrogate: Dibromofluoromethane* | *28.5* | | *ug/l* | *25.0* | | *114* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *25.4* | | *ug/l* | *25.0* | | *102* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *24.2* | | *ug/l* | *25.0* | | *96.8* | *80-120* | | | |

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Report Number: PKI0340

Sampled: 09/20/01
Received: 09/21/01

## METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1J0325 Extracted: 10/03/01** | | | | | | | | | | |
| **LCS Dup Analyzed: 10/03/01 (P1J0325-BSD1)** | | | | | | | | | | |
| **Acetone** | **25.4** | 20 | ug/l | 25.0 | | 102 | 30-200 | 20.4 | 20 | |
| **Benzene** | **24.0** | 2.0 | ug/l | 25.0 | | 96.0 | 80-120 | 2.06 | 20 | |
| **Bromobenzene** | **23.7** | 5.0 | ug/l | 25.0 | | 94.8 | 80-120 | 9.26 | 20 | |
| **Bromochloromethane** | **25.8** | 5.0 | ug/l | 25.0 | | 103 | 80-120 | 3.05 | 20 | |
| **Bromodichloromethane** | **26.8** | 2.0 | ug/l | 25.0 | | 107 | 80-130 | 7.54 | 20 | |
| **Bromoform** | **27.6** | 5.0 | ug/l | 25.0 | | 110 | 60-140 | 5.98 | 20 | |
| **Bromomethane** | **24.1** | 5.0 | ug/l | 25.0 | | 96.4 | 60-150 | 9.57 | 20 | |
| **2-Butanone (MEK)** | **27.4** | 10 | ug/l | 25.0 | | 110 | 30-185 | 12.4 | 20 | |
| **n-Butylbenzene** | **26.2** | 5.0 | ug/l | 25.0 | | 105 | 75-130 | 1.52 | 20 | |
| **sec-Butylbenzene** | **25.9** | 5.0 | ug/l | 25.0 | | 104 | 80-125 | 3.04 | 20 | |
| **tert-Butylbenzene** | **24.8** | 5.0 | ug/l | 25.0 | | 99.2 | 80-120 | 9.23 | 20 | |
| **Carbon Disulfide** | **29.9** | 5.0 | ug/l | 25.0 | | 120 | 65-120 | 4.89 | 20 | |
| **Carbon tetrachloride** | **31.6** | 5.0 | ug/l | 25.0 | | 126 | 75-150 | 5.24 | 20 | |
| **Chlorobenzene** | **23.0** | 2.0 | ug/l | 25.0 | | 92.0 | 80-120 | 7.13 | 20 | |
| **Chloroethane** | **24.2** | 5.0 | ug/l | 25.0 | | 96.8 | 80-125 | 5.96 | 20 | |
| **Chloroform** | **27.0** | 2.0 | ug/l | 25.0 | | 108 | 80-120 | 6.45 | 20 | |
| **Chloromethane** | **20.0** | 5.0 | ug/l | 25.0 | | 80.0 | 60-125 | 8.33 | 20 | |
| **2-Chlorotoluene** | **24.3** | 5.0 | ug/l | 25.0 | | 97.2 | 80-120 | 8.66 | 20 | |
| **4-Chlorotoluene** | **24.7** | 5.0 | ug/l | 25.0 | | 98.8 | 80-120 | 10.0 | 20 | |
| **Dibromochloromethane** | **27.6** | 2.0 | ug/l | 25.0 | | 110 | 70-150 | 9.98 | 20 | |
| **1,2-Dibromo-3-chloropropane** | **31.2** | 5.0 | ug/l | 25.0 | | 125 | 50-145 | 6.62 | 20 | |
| **1,2-Dibromoethane (EDB)** | **25.2** | 2.0 | ug/l | 25.0 | | 101 | 75-120 | 4.27 | 20 | |
| **Dibromomethane** | **24.1** | 2.0 | ug/l | 25.0 | | 96.4 | 80-120 | 1.65 | 20 | |
| **1,2-Dichlorobenzene** | **25.0** | 2.0 | ug/l | 25.0 | | 100 | 80-120 | 7.69 | 20 | |
| **1,3-Dichlorobenzene** | **24.8** | 2.0 | ug/l | 25.0 | | 99.2 | 80-120 | 9.60 | 20 | |
| **1,4-Dichlorobenzene** | **24.9** | 2.0 | ug/l | 25.0 | | 99.6 | 80-120 | 10.3 | 20 | |
| **Dichlorodifluoromethane** | **32.4** | 5.0 | ug/l | 25.0 | | 130 | 25-140 | 2.50 | 20 | |
| **1,1-Dichloroethane** | **27.8** | 2.0 | ug/l | 25.0 | | 111 | 80-120 | 7.94 | 20 | |
| **1,2-Dichloroethane** | **27.3** | 2.0 | ug/l | 25.0 | | 109 | 80-120 | 5.00 | 20 | |
| **1,1-Dichloroethene** | **27.8** | 5.0 | ug/l | 25.0 | | 111 | 80-120 | 4.57 | 20 | |
| **cis-1,2-Dichloroethene** | **28.0** | 2.0 | ug/l | 25.0 | | 112 | 80-120 | 6.56 | 20 | |
| **trans-1,2-Dichloroethene** | **27.0** | 2.0 | ug/l | 25.0 | | 108 | 80-120 | 8.51 | 20 | |
| **1,2-Dichloropropane** | **24.6** | 2.0 | ug/l | 25.0 | | 98.4 | 80-120 | 3.98 | 20 | |
| **1,3-Dichloropropane** | **26.0** | 2.0 | ug/l | 25.0 | | 104 | 80-120 | 5.61 | 20 | |
| **2,2-Dichloropropane** | **31.1** | 2.0 | ug/l | 25.0 | | 124 | 75-135 | 6.53 | 20 | |
| **1,1-Dichloropropene** | **27.5** | 2.0 | ug/l | 25.0 | | 110 | 80-120 | 5.31 | 20 | |

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Law Engineering
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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150.2-2.2
Report Number: PKI0340

Sampled: 09/20/01
Received: 09/21/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1J0325 Extracted: 10/03/01** | | | | | | | | | | |
| **LCS Dup Analyzed: 10/03/01 (P1J0325-BSD1)** | | | | | | | | | | |
| **cis-1,3-Dichloropropene** | **25.2** | 2.0 | ug/l | 25.0 | | 101 | 80-120 | 6.90 | 20 | |
| **trans-1,3-Dichloropropene** | **27.4** | 2.0 | ug/l | 25.0 | | 110 | 80-120 | 5.33 | 20 | |
| **Ethylbenzene** | **22.6** | 2.0 | ug/l | 25.0 | | 90.4 | 80-120 | 6.84 | 20 | |
| **Hexachlorobutadiene** | **23.1** | 5.0 | ug/l | 25.0 | | 92.4 | 60-145 | 31.6 | 20 | R4 |
| **2-Hexanone** | **24.8** | 10 | ug/l | 25.0 | | 99.2 | 50-170 | 4.12 | 20 | |
| **Iodomethane** | **19.6** | 2.0 | ug/l | 25.0 | | 78.4 | 40-155 | 4.98 | 20 | |
| **Isopropylbenzene** | **24.0** | 2.0 | ug/l | 25.0 | | 96.0 | 80-120 | 8.00 | 20 | |
| **p-Isopropyltoluene** | **24.9** | 2.0 | ug/l | 25.0 | | 99.6 | 80-120 | 5.47 | 20 | |
| **Methylene chloride** | **20.5** | 5.0 | ug/l | 25.0 | | 82.0 | 80-120 | 5.69 | 20 | |
| **4-Methyl-2-pentanone (MIBK)** | **23.3** | 10 | ug/l | 25.0 | | 93.2 | 70-140 | 3.94 | 20 | |
| **Methyl-tert-butyl Ether (MTBE)** | **27.4** | 5.0 | ug/l | 25.0 | | 110 | 75-135 | 2.17 | 20 | |
| **Naphthalene** | **24.2** | 5.0 | ug/l | 25.0 | | 96.8 | 70-130 | 11.4 | 20 | |
| **n-Propylbenzene** | **25.8** | 2.0 | ug/l | 25.0 | | 103 | 80-120 | 7.10 | 20 | |
| **Styrene** | **23.2** | 2.0 | ug/l | 25.0 | | 92.8 | 80-120 | 10.6 | 20 | |
| **1,1,1,2-Tetrachloroethane** | **27.6** | 5.0 | ug/l | 25.0 | | 110 | 65-150 | 11.0 | 20 | |
| **1,1,2,2-Tetrachloroethane** | **24.8** | 2.0 | ug/l | 25.0 | | 99.2 | 70-130 | 1.60 | 20 | |
| **Tetrachloroethene** | **25.5** | 2.0 | ug/l | 25.0 | | 102 | 80-125 | 1.17 | 20 | |
| **Toluene** | **23.6** | 2.0 | ug/l | 25.0 | | 94.4 | 80-120 | 2.92 | 20 | |
| **1,2,3-Trichlorobenzene** | **24.1** | 5.0 | ug/l | 25.0 | | 96.4 | 75-125 | 11.4 | 20 | |
| **1,2,4-Trichlorobenzene** | **24.7** | 5.0 | ug/l | 25.0 | | 98.8 | 80-120 | 4.13 | 20 | |
| **1,1,1-Trichloroethane** | **29.9** | 2.0 | ug/l | 25.0 | | 120 | 80-120 | 6.47 | 20 | |
| **1,1,2-Trichloroethane** | **25.4** | 2.0 | ug/l | 25.0 | | 102 | 80-120 | 6.84 | 20 | |
| **Trichloroethene** | **25.2** | 2.0 | ug/l | 25.0 | | 101 | 80-120 | 3.51 | 20 | |
| **Trichlorofluoromethane** | **29.4** | 5.0 | ug/l | 25.0 | | 118 | 75-150 | 3.34 | 20 | |
| **1,2,3-Trichloropropane** | **25.8** | 10 | ug/l | 25.0 | | 103 | 65-135 | 3.80 | 20 | |
| **1,2,4-Trimethylbenzene** | **25.8** | 2.0 | ug/l | 25.0 | | 103 | 80-120 | 6.02 | 20 | |
| **1,3,5-Trimethylbenzene** | **25.4** | 2.0 | ug/l | 25.0 | | 102 | 80-120 | 7.58 | 20 | |
| **Vinyl acetate** | **28.0** | 25 | ug/l | 25.0 | | 112 | 40-120 | 1.44 | 20 | |
| **Vinyl chloride** | **25.2** | 5.0 | ug/l | 25.0 | | 101 | 80-120 | 5.30 | 20 | |
| **Xylenes, Total** | **67.0** | 10 | ug/l | 75.0 | | 89.3 | 80-120 | 7.06 | 20 | |
| *Surrogate: Dibromofluoromethane* | *28.0* | | *ug/l* | *25.0* | | *112* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *25.6* | | *ug/l* | *25.0* | | *102* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *24.7* | | *ug/l* | *25.0* | | *98.8* | *80-120* | | | |

Melissa Evans
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150.2-2.2
Report Number: PKI0340

Sampled: 09/20/01
Received: 09/21/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1J0325 Extracted: 10/03/01** | | | | | | | | | | |
| **Matrix Spike Analyzed: 10/03/01 (P1J0325-MS1)** | | | | | **Source: PKI0357-01** | | | | | |
| **Acetone** | **27.5** | 20 | ug/l | 25.0 | ND | 110 | 5-200 | | | |
| **Benzene** | **25.0** | 2.0 | ug/l | 25.0 | ND | 100 | 80-120 | | | |
| **Bromobenzene** | **23.9** | 5.0 | ug/l | 25.0 | ND | 95.6 | 80-120 | | | |
| **Bromochloromethane** | **26.0** | 5.0 | ug/l | 25.0 | ND | 104 | 60-135 | | | |
| **Bromodichloromethane** | **27.7** | 2.0 | ug/l | 25.0 | ND | 111 | 80-120 | | | |
| **Bromoform** | **26.2** | 5.0 | ug/l | 25.0 | ND | 105 | 40-140 | | | |
| **Bromomethane** | **28.2** | 5.0 | ug/l | 25.0 | ND | 113 | 25-165 | | | |
| **2-Butanone (MEK)** | **26.5** | 10 | ug/l | 25.0 | ND | 106 | 10-160 | | | |
| **n-Butylbenzene** | **26.6** | 5.0 | ug/l | 25.0 | ND | 106 | 75-135 | | | |
| **sec-Butylbenzene** | **26.2** | 5.0 | ug/l | 25.0 | ND | 105 | 80-135 | | | |
| **tert-Butylbenzene** | **25.3** | 5.0 | ug/l | 25.0 | ND | 101 | 80-125 | | | |
| **Carbon Disulfide** | **28.2** | 5.0 | ug/l | 25.0 | ND | 113 | 20-120 | | | |
| **Carbon tetrachloride** | **31.1** | 5.0 | ug/l | 25.0 | ND | 124 | 80-145 | | | |
| **Chlorobenzene** | **23.1** | 2.0 | ug/l | 25.0 | ND | 92.4 | 80-120 | | | |
| **Chloroethane** | **25.3** | 5.0 | ug/l | 25.0 | ND | 101 | 30-150 | | | |
| **Chloroform** | **27.7** | 2.0 | ug/l | 25.0 | ND | 111 | 80-125 | | | |
| **Chloromethane** | **20.1** | 5.0 | ug/l | 25.0 | ND | 80.4 | 15-140 | | | |
| **2-Chlorotoluene** | **24.6** | 5.0 | ug/l | 25.0 | ND | 98.4 | 80-125 | | | |
| **4-Chlorotoluene** | **24.8** | 5.0 | ug/l | 25.0 | ND | 99.2 | 80-125 | | | |
| **Dibromochloromethane** | **27.3** | 2.0 | ug/l | 25.0 | ND | 109 | 75-135 | | | |
| **1,2-Dibromo-3-chloropropane** | **26.9** | 5.0 | ug/l | 25.0 | ND | 108 | 25-185 | | | |
| **1,2-Dibromoethane (EDB)** | **24.6** | 2.0 | ug/l | 25.0 | ND | 98.4 | 45-145 | | | |
| **Dibromomethane** | **24.5** | 2.0 | ug/l | 25.0 | ND | 98.0 | 55-140 | | | |
| **1,2-Dichlorobenzene** | **25.0** | 2.0 | ug/l | 25.0 | ND | 100 | 80-120 | | | |
| **1,3-Dichlorobenzene** | **24.6** | 2.0 | ug/l | 25.0 | ND | 98.4 | 80-120 | | | |
| **1,4-Dichlorobenzene** | **25.2** | 2.0 | ug/l | 25.0 | ND | 101 | 80-120 | | | |
| **Dichlorodifluoromethane** | **32.0** | 5.0 | ug/l | 25.0 | ND | 128 | 25-145 | | | |
| **1,1-Dichloroethane** | **28.6** | 2.0 | ug/l | 25.0 | ND | 114 | 75-120 | | | |
| **1,2-Dichloroethane** | **28.7** | 2.0 | ug/l | 25.0 | ND | 115 | 60-135 | | | |
| **1,1-Dichloroethene** | **26.6** | 5.0 | ug/l | 25.0 | ND | 106 | 55-120 | | | |
| **cis-1,2-Dichloroethene** | **28.3** | 2.0 | ug/l | 25.0 | ND | 113 | 75-120 | | | |
| **trans-1,2-Dichloroethene** | **27.5** | 2.0 | ug/l | 25.0 | ND | 110 | 65-120 | | | |
| **1,2-Dichloropropane** | **25.7** | 2.0 | ug/l | 25.0 | ND | 103 | 80-125 | | | |
| **1,3-Dichloropropane** | **25.1** | 2.0 | ug/l | 25.0 | ND | 100 | 55-140 | | | |
| **2,2-Dichloropropane** | **31.2** | 2.0 | ug/l | 25.0 | ND | 125 | 45-165 | | | |
| **1,1-Dichloropropene** | **27.8** | 2.0 | ug/l | 25.0 | ND | 111 | 80-120 | | | |

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Law Engineering
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Attention: Jim Clarke

Client Project ID: 70211-0-0150.2-2.2
Report Number: PKI0340

Sampled: 09/20/01
Received: 09/21/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1J0325 Extracted: 10/03/01** | | | | | | | | | | |
| **Matrix Spike Analyzed: 10/03/01 (P1J0325-MS1)** | | | | | **Source: PKI0357-01** | | | | | |
| **cis-1,3-Dichloropropene** | **25.6** | 2.0 | ug/l | 25.0 | ND | 102 | 80-120 | | | |
| **trans-1,3-Dichloropropene** | **26.0** | 2.0 | ug/l | 25.0 | ND | 104 | 70-120 | | | |
| **Ethylbenzene** | **22.4** | 2.0 | ug/l | 25.0 | ND | 89.6 | 80-120 | | | |
| **Hexachlorobutadiene** | **28.6** | 5.0 | ug/l | 25.0 | ND | 114 | 80-135 | | | |
| **2-Hexanone** | **23.1** | 10 | ug/l | 25.0 | ND | 92.4 | 25-185 | | | |
| **Iodomethane** | **17.7** | 2.0 | ug/l | 25.0 | ND | 70.8 | 30-155 | | | |
| **Isopropylbenzene** | **24.2** | 2.0 | ug/l | 25.0 | ND | 96.8 | 80-125 | | | |
| **p-Isopropyltoluene** | **25.1** | 2.0 | ug/l | 25.0 | ND | 100 | 80-125 | | | |
| **Methylene chloride** | **21.0** | 5.0 | ug/l | 25.0 | ND | 84.0 | 55-125 | | | |
| **4-Methyl-2-pentanone (MIBK)** | **23.7** | 10 | ug/l | 25.0 | ND | 94.8 | 10-175 | | | |
| **Methyl-tert-butyl Ether (MTBE)** | **27.9** | 5.0 | ug/l | 25.0 | ND | 112 | 55-135 | | | |
| **Naphthalene** | **23.8** | 5.0 | ug/l | 25.0 | ND | 95.2 | 15-160 | | | |
| **n-Propylbenzene** | **25.5** | 2.0 | ug/l | 25.0 | ND | 102 | 80-130 | | | |
| **Styrene** | **22.7** | 2.0 | ug/l | 25.0 | ND | 90.8 | 60-135 | | | |
| **1,1,1,2-Tetrachloroethane** | **27.0** | 5.0 | ug/l | 25.0 | ND | 108 | 80-135 | | | |
| **1,1,2,2-Tetrachloroethane** | **23.4** | 2.0 | ug/l | 25.0 | ND | 93.6 | 35-150 | | | |
| **Tetrachloroethene** | **24.2** | 2.0 | ug/l | 25.0 | ND | 96.8 | 80-120 | | | |
| **Toluene** | **23.6** | 2.0 | ug/l | 25.0 | ND | 94.4 | 80-120 | | | |
| **1,2,3-Trichlorobenzene** | **26.0** | 5.0 | ug/l | 25.0 | ND | 104 | 45-145 | | | |
| **1,2,4-Trichlorobenzene** | **25.9** | 5.0 | ug/l | 25.0 | ND | 104 | 65-130 | | | |
| **1,1,1-Trichloroethane** | **30.3** | 2.0 | ug/l | 25.0 | ND | 121 | 80-120 | | | N2 |
| **1,1,2-Trichloroethane** | **24.5** | 2.0 | ug/l | 25.0 | ND | 98.0 | 55-145 | | | |
| **Trichloroethene** | **34.4** | 2.0 | ug/l | 25.0 | 8.8 | 102 | 80-120 | | | |
| **Trichlorofluoromethane** | **28.0** | 5.0 | ug/l | 25.0 | ND | 112 | 70-145 | | | |
| **1,2,3-Trichloropropane** | **25.4** | 10 | ug/l | 25.0 | ND | 102 | 20-160 | | | |
| **1,2,4-Trimethylbenzene** | **25.3** | 2.0 | ug/l | 25.0 | ND | 101 | 70-135 | | | |
| **1,3,5-Trimethylbenzene** | **25.3** | 2.0 | ug/l | 25.0 | ND | 101 | 80-125 | | | |
| **Vinyl acetate** | **28.6** | 25 | ug/l | 25.0 | ND | 114 | 25-130 | | | |
| **Vinyl chloride** | **23.6** | 5.0 | ug/l | 25.0 | ND | 94.4 | 25-135 | | | |
| **Xylenes, Total** | **66.9** | 10 | ug/l | 75.0 | ND | 89.2 | 80-120 | | | |
| *Surrogate: Dibromofluoromethane* | *27.9* | | *ug/l* | *25.0* | | *112* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *24.7* | | *ug/l* | *25.0* | | *98.8* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *24.6* | | *ug/l* | *25.0* | | *98.4* | *80-120* | | | |

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Project Manager



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Attention: Jim Clarke

Client Project ID: 70211-0-0150.2-2.2
Report Number: PKI0340

Sampled: 09/20/01
Received: 09/21/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1J0325 Extracted: 10/03/01** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 10/03/01 (P1J0325-MSD1)** | | | | | **Source: PKI0357-01** | | | | | |
| **Acetone** | **28.8** | 20 | ug/l | 25.0 | ND | 115 | 5-200 | 4.62 | 20 | |
| **Benzene** | **26.8** | 2.0 | ug/l | 25.0 | ND | 107 | 80-120 | 6.95 | 20 | |
| **Bromobenzene** | **23.5** | 5.0 | ug/l | 25.0 | ND | 94.0 | 80-120 | 1.69 | 20 | |
| **Bromochloromethane** | **28.1** | 5.0 | ug/l | 25.0 | ND | 112 | 60-135 | 7.76 | 20 | |
| **Bromodichloromethane** | **30.3** | 2.0 | ug/l | 25.0 | ND | 121 | 80-120 | 8.97 | 20 | M1 |
| **Bromoform** | **25.9** | 5.0 | ug/l | 25.0 | ND | 104 | 40-140 | 1.15 | 20 | |
| **Bromomethane** | **18.0** | 5.0 | ug/l | 25.0 | ND | 72.0 | 25-165 | 44.2 | 20 | R4 |
| **2-Butanone (MEK)** | **25.6** | 10 | ug/l | 25.0 | ND | 102 | 10-160 | 3.45 | 20 | |
| **n-Butylbenzene** | **27.3** | 5.0 | ug/l | 25.0 | ND | 109 | 75-135 | 2.60 | 20 | |
| **sec-Butylbenzene** | **27.2** | 5.0 | ug/l | 25.0 | ND | 109 | 80-135 | 3.75 | 20 | |
| **tert-Butylbenzene** | **25.8** | 5.0 | ug/l | 25.0 | ND | 103 | 80-125 | 1.96 | 20 | |
| **Carbon Disulfide** | **31.3** | 5.0 | ug/l | 25.0 | ND | 125 | 20-120 | 10.4 | 20 | N2 |
| **Carbon tetrachloride** | **33.0** | 5.0 | ug/l | 25.0 | ND | 132 | 80-145 | 5.93 | 20 | |
| **Chlorobenzene** | **23.3** | 2.0 | ug/l | 25.0 | ND | 93.2 | 80-120 | 0.862 | 20 | |
| **Chloroethane** | **18.1** | 5.0 | ug/l | 25.0 | ND | 72.4 | 30-150 | 33.2 | 20 | R4 |
| **Chloroform** | **29.7** | 2.0 | ug/l | 25.0 | ND | 119 | 80-125 | 6.97 | 20 | |
| **Chloromethane** | **23.5** | 5.0 | ug/l | 25.0 | ND | 94.0 | 15-140 | 15.6 | 20 | |
| **2-Chlorotoluene** | **24.8** | 5.0 | ug/l | 25.0 | ND | 99.2 | 80-125 | 0.810 | 20 | |
| **4-Chlorotoluene** | **25.2** | 5.0 | ug/l | 25.0 | ND | 101 | 80-125 | 1.60 | 20 | |
| **Dibromochloromethane** | **27.1** | 2.0 | ug/l | 25.0 | ND | 108 | 75-135 | 0.735 | 20 | |
| **1,2-Dibromo-3-chloropropane** | **26.7** | 5.0 | ug/l | 25.0 | ND | 107 | 25-185 | 0.746 | 20 | |
| **1,2-Dibromoethane (EDB)** | **24.5** | 2.0 | ug/l | 25.0 | ND | 98.0 | 45-145 | 0.407 | 20 | |
| **Dibromomethane** | **26.6** | 2.0 | ug/l | 25.0 | ND | 106 | 55-140 | 8.22 | 20 | |
| **1,2-Dichlorobenzene** | **26.2** | 2.0 | ug/l | 25.0 | ND | 105 | 80-120 | 4.69 | 20 | |
| **1,3-Dichlorobenzene** | **25.8** | 2.0 | ug/l | 25.0 | ND | 103 | 80-120 | 4.76 | 20 | |
| **1,4-Dichlorobenzene** | **26.1** | 2.0 | ug/l | 25.0 | ND | 104 | 80-120 | 3.51 | 20 | |
| **Dichlorodifluoromethane** | **34.3** | 5.0 | ug/l | 25.0 | ND | 137 | 25-145 | 6.94 | 20 | |
| **1,1-Dichloroethane** | **30.3** | 2.0 | ug/l | 25.0 | ND | 121 | 75-120 | 5.77 | 20 | M1 |
| **1,2-Dichloroethane** | **31.5** | 2.0 | ug/l | 25.0 | ND | 126 | 60-135 | 9.30 | 20 | |
| **1,1-Dichloroethene** | **29.5** | 5.0 | ug/l | 25.0 | ND | 118 | 55-120 | 10.3 | 20 | |
| **cis-1,2-Dichloroethene** | **29.7** | 2.0 | ug/l | 25.0 | ND | 119 | 75-120 | 4.83 | 20 | |
| **trans-1,2-Dichloroethene** | **28.8** | 2.0 | ug/l | 25.0 | ND | 115 | 65-120 | 4.62 | 20 | |
| **1,2-Dichloropropane** | **27.6** | 2.0 | ug/l | 25.0 | ND | 110 | 80-125 | 7.13 | 20 | |
| **1,3-Dichloropropane** | **25.4** | 2.0 | ug/l | 25.0 | ND | 102 | 55-140 | 1.19 | 20 | |
| **2,2-Dichloropropane** | **32.8** | 2.0 | ug/l | 25.0 | ND | 131 | 45-165 | 5.00 | 20 | |
| **1,1-Dichloropropene** | **29.0** | 2.0 | ug/l | 25.0 | ND | 116 | 80-120 | 4.23 | 20 | |

Melissa Evans
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150.2-2.2
Report Number: PKI0340

Sampled: 09/20/01
Received: 09/21/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1J0325 Extracted: 10/03/01** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 10/03/01 (P1J0325-MSD1)** | | | | | **Source: PKI0357-01** | | | | | |
| **cis-1,3-Dichloropropene** | **27.8** | 2.0 | ug/l | 25.0 | ND | 111 | 80-120 | 8.24 | 20 | |
| **trans-1,3-Dichloropropene** | **26.2** | 2.0 | ug/l | 25.0 | ND | 105 | 70-120 | 0.766 | 20 | |
| **Ethylbenzene** | **22.9** | 2.0 | ug/l | 25.0 | ND | 91.6 | 80-120 | 2.21 | 20 | |
| **Hexachlorobutadiene** | **29.9** | 5.0 | ug/l | 25.0 | ND | 120 | 80-135 | 4.44 | 20 | |
| **2-Hexanone** | **22.5** | 10 | ug/l | 25.0 | ND | 90.0 | 25-185 | 2.63 | 20 | |
| **Iodomethane** | **19.7** | 2.0 | ug/l | 25.0 | ND | 78.8 | 30-155 | 10.7 | 20 | |
| **Isopropylbenzene** | **24.8** | 2.0 | ug/l | 25.0 | ND | 99.2 | 80-125 | 2.45 | 20 | |
| **p-Isopropyltoluene** | **26.1** | 2.0 | ug/l | 25.0 | ND | 104 | 80-125 | 3.91 | 20 | |
| **Methylene chloride** | **23.3** | 5.0 | ug/l | 25.0 | ND | 93.2 | 55-125 | 10.4 | 20 | |
| **4-Methyl-2-pentanone (MIBK)** | **23.2** | 10 | ug/l | 25.0 | ND | 92.8 | 10-175 | 2.13 | 20 | |
| **Methyl-tert-butyl Ether (MTBE)** | **29.6** | 5.0 | ug/l | 25.0 | ND | 118 | 55-135 | 5.91 | 20 | |
| **Naphthalene** | **23.3** | 5.0 | ug/l | 25.0 | ND | 93.2 | 15-160 | 2.12 | 20 | |
| **n-Propylbenzene** | **26.0** | 2.0 | ug/l | 25.0 | ND | 104 | 80-130 | 1.94 | 20 | |
| **Styrene** | **23.4** | 2.0 | ug/l | 25.0 | ND | 93.6 | 60-135 | 3.04 | 20 | |
| **1,1,1,2-Tetrachloroethane** | **26.4** | 5.0 | ug/l | 25.0 | ND | 106 | 80-135 | 2.25 | 20 | |
| **1,1,2,2-Tetrachloroethane** | **22.7** | 2.0 | ug/l | 25.0 | ND | 90.8 | 35-150 | 3.04 | 20 | |
| **Tetrachloroethene** | **24.7** | 2.0 | ug/l | 25.0 | ND | 98.8 | 80-120 | 2.04 | 20 | |
| **Toluene** | **24.0** | 2.0 | ug/l | 25.0 | ND | 96.0 | 80-120 | 1.68 | 20 | |
| **1,2,3-Trichlorobenzene** | **25.3** | 5.0 | ug/l | 25.0 | ND | 101 | 45-145 | 2.73 | 20 | |
| **1,2,4-Trichlorobenzene** | **25.9** | 5.0 | ug/l | 25.0 | ND | 104 | 65-130 | 0.00 | 20 | |
| **1,1,1-Trichloroethane** | **31.4** | 2.0 | ug/l | 25.0 | ND | 126 | 80-120 | 3.57 | 20 | N2 |
| **1,1,2-Trichloroethane** | **24.4** | 2.0 | ug/l | 25.0 | ND | 97.6 | 55-145 | 0.409 | 20 | |
| **Trichloroethene** | **37.4** | 2.0 | ug/l | 25.0 | 8.8 | 114 | 80-120 | 8.36 | 20 | |
| **Trichlorofluoromethane** | **28.3** | 5.0 | ug/l | 25.0 | ND | 113 | 70-145 | 1.07 | 20 | |
| **1,2,3-Trichloropropane** | **24.3** | 10 | ug/l | 25.0 | ND | 97.2 | 20-160 | 4.43 | 20 | |
| **1,2,4-Trimethylbenzene** | **26.0** | 2.0 | ug/l | 25.0 | ND | 104 | 70-135 | 2.73 | 20 | |
| **1,3,5-Trimethylbenzene** | **25.8** | 2.0 | ug/l | 25.0 | ND | 103 | 80-125 | 1.96 | 20 | |
| **Vinyl acetate** | **30.0** | 25 | ug/l | 25.0 | ND | 120 | 25-130 | 4.78 | 20 | |
| **Vinyl chloride** | **26.5** | 5.0 | ug/l | 25.0 | ND | 106 | 25-135 | 11.6 | 20 | |
| **Xylenes, Total** | **69.1** | 10 | ug/l | 75.0 | ND | 92.1 | 80-120 | 3.24 | 20 | |
| *Surrogate: Dibromofluoromethane* | *28.4* | | *ug/l* | *25.0* | | *114* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *23.6* | | *ug/l* | *25.0* | | *94.4* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *23.7* | | *ug/l* | *25.0* | | *94.8* | *80-120* | | | |

Melissa Evans
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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150.2-2.2
Report Number: PKI0340

Sampled: 09/20/01
Received: 09/21/01

## METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1J0430 Extracted: 10/04/01** | | | | | | | | | | |
| **Blank Analyzed: 10/04/01 (P1J0430-BLK1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | |
| Benzene | ND | 2.0 | ug/l | | | | | | | |
| Bromobenzene | ND | 5.0 | ug/l | | | | | | | |
| Bromochloromethane | ND | 5.0 | ug/l | | | | | | | |
| Bromodichloromethane | ND | 2.0 | ug/l | | | | | | | |
| Bromoform | ND | 5.0 | ug/l | | | | | | | |
| Bromomethane | ND | 5.0 | ug/l | | | | | | | |
| 2-Butanone (MEK) | ND | 10 | ug/l | | | | | | | |
| n-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| sec-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| tert-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| Carbon Disulfide | ND | 5.0 | ug/l | | | | | | | |
| Carbon tetrachloride | ND | 5.0 | ug/l | | | | | | | |
| Chlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| Chloroethane | ND | 5.0 | ug/l | | | | | | | |
| Chloroform | ND | 2.0 | ug/l | | | | | | | |
| Chloromethane | ND | 5.0 | ug/l | | | | | | | |
| 2-Chlorotoluene | ND | 5.0 | ug/l | | | | | | | |
| 4-Chlorotoluene | ND | 5.0 | ug/l | | | | | | | |
| Dibromochloromethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/l | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 2.0 | ug/l | | | | | | | |
| Dibromomethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| Dichlorodifluoromethane | ND | 5.0 | ug/l | | | | | | | |
| 1,1-Dichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,1-Dichloroethene | ND | 5.0 | ug/l | | | | | | | |
| cis-1,2-Dichloroethene | ND | 2.0 | ug/l | | | | | | | |
| trans-1,2-Dichloroethene | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,3-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 2,2-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |

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Attention: Jim Clarke

Client Project ID: 70211-0-0150.2-2.2
Report Number: PKI0340

Sampled: 09/20/01
Received: 09/21/01

## METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1J0430 Extracted: 10/04/01** | | | | | | | | | | |
| **Blank Analyzed: 10/04/01 (P1J0430-BLK1)** | | | | | | | | | | |
| 1,1-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| cis-1,3-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| Ethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 5.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 10 | ug/l | | | | | | | |
| Iodomethane | ND | 2.0 | ug/l | | | | | | | |
| Isopropylbenzene | ND | 2.0 | ug/l | | | | | | | |
| p-Isopropyltoluene | ND | 2.0 | ug/l | | | | | | | |
| Methylene chloride | ND | 5.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 5.0 | ug/l | | | | | | | |
| Naphthalene | ND | 5.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Styrene | ND | 2.0 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/l | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 2.0 | ug/l | | | | | | | |
| Toluene | ND | 2.0 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 5.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,1,2-Trichloroethane | ND | 2.0 | ug/l | | | | | | | |
| Trichloroethene | ND | 2.0 | ug/l | | | | | | | |
| Trichlorofluoromethane | ND | 5.0 | ug/l | | | | | | | |
| 1,2,3-Trichloropropane | ND | 10 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Vinyl acetate | ND | 25 | ug/l | | | | | | | |
| Vinyl chloride | ND | 5.0 | ug/l | | | | | | | |
| Xylenes, Total | ND | 10 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *26.9* | | *ug/l* | *25.0* | | *108* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *22.1* | | *ug/l* | *25.0* | | *88.4* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *24.9* | | *ug/l* | *25.0* | | *99.6* | *80-120* | | | |

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Attention: Jim Clarke

Client Project ID: 70211-0-0150.2-2.2
Report Number: PKI0340

Sampled: 09/20/01
Received: 09/21/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1J0430 Extracted: 10/04/01** | | | | | | | | | | |
| **LCS Analyzed: 10/04/01 (P1J0430-BS1)** | | | | | | | | | | |
| **Acetone** | **24.2** | 20 | ug/l | 25.0 | | 96.8 | 30-200 | | | |
| **Benzene** | **23.8** | 2.0 | ug/l | 25.0 | | 95.2 | 80-120 | | | |
| **Bromobenzene** | **22.8** | 5.0 | ug/l | 25.0 | | 91.2 | 80-120 | | | |
| **Bromochloromethane** | **26.8** | 5.0 | ug/l | 25.0 | | 107 | 80-120 | | | |
| **Bromodichloromethane** | **29.0** | 2.0 | ug/l | 25.0 | | 116 | 80-130 | | | |
| **Bromoform** | **24.2** | 5.0 | ug/l | 25.0 | | 96.8 | 60-140 | | | |
| **Bromomethane** | **26.8** | 5.0 | ug/l | 25.0 | | 107 | 60-150 | | | |
| **2-Butanone (MEK)** | **26.7** | 10 | ug/l | 25.0 | | 107 | 30-185 | | | |
| **n-Butylbenzene** | **26.9** | 5.0 | ug/l | 25.0 | | 108 | 75-130 | | | |
| **sec-Butylbenzene** | **25.8** | 5.0 | ug/l | 25.0 | | 103 | 80-125 | | | |
| **tert-Butylbenzene** | **25.2** | 5.0 | ug/l | 25.0 | | 101 | 80-120 | | | |
| **Carbon Disulfide** | **30.9** | 5.0 | ug/l | 25.0 | | 124 | 65-120 | | | V1,L3 |
| **Carbon tetrachloride** | **33.7** | 5.0 | ug/l | 25.0 | | 135 | 75-150 | | | |
| **Chlorobenzene** | **20.7** | 2.0 | ug/l | 25.0 | | 82.8 | 80-120 | | | |
| **Chloroethane** | **27.0** | 5.0 | ug/l | 25.0 | | 108 | 80-125 | | | |
| **Chloroform** | **28.6** | 2.0 | ug/l | 25.0 | | 114 | 80-120 | | | |
| **Chloromethane** | **25.8** | 5.0 | ug/l | 25.0 | | 103 | 60-125 | | | |
| **2-Chlorotoluene** | **24.2** | 5.0 | ug/l | 25.0 | | 96.8 | 80-120 | | | |
| **4-Chlorotoluene** | **24.9** | 5.0 | ug/l | 25.0 | | 99.6 | 80-120 | | | |
| **Dibromochloromethane** | **24.8** | 2.0 | ug/l | 25.0 | | 99.2 | 70-150 | | | |
| **1,2-Dibromo-3-chloropropane** | **27.4** | 5.0 | ug/l | 25.0 | | 110 | 50-145 | | | |
| **1,2-Dibromoethane (EDB)** | **21.3** | 2.0 | ug/l | 25.0 | | 85.2 | 75-120 | | | |
| **Dibromomethane** | **25.6** | 2.0 | ug/l | 25.0 | | 102 | 80-120 | | | |
| **1,2-Dichlorobenzene** | **24.8** | 2.0 | ug/l | 25.0 | | 99.2 | 80-120 | | | |
| **1,3-Dichlorobenzene** | **24.8** | 2.0 | ug/l | 25.0 | | 99.2 | 80-120 | | | |
| **1,4-Dichlorobenzene** | **24.6** | 2.0 | ug/l | 25.0 | | 98.4 | 80-120 | | | |
| **Dichlorodifluoromethane** | **35.3** | 5.0 | ug/l | 25.0 | | 141 | 25-140 | | | V1,L3 |
| **1,1-Dichloroethane** | **30.2** | 2.0 | ug/l | 25.0 | | 121 | 80-120 | | | V1,L3 |
| **1,2-Dichloroethane** | **32.2** | 2.0 | ug/l | 25.0 | | 129 | 80-120 | | | V1,L3 |
| **1,1-Dichloroethene** | **29.0** | 5.0 | ug/l | 25.0 | | 116 | 80-120 | | | |
| **cis-1,2-Dichloroethene** | **29.4** | 2.0 | ug/l | 25.0 | | 118 | 80-120 | | | |
| **trans-1,2-Dichloroethene** | **28.4** | 2.0 | ug/l | 25.0 | | 114 | 80-120 | | | |
| **1,2-Dichloropropane** | **25.1** | 2.0 | ug/l | 25.0 | | 100 | 80-120 | | | |
| **1,3-Dichloropropane** | **22.1** | 2.0 | ug/l | 25.0 | | 88.4 | 80-120 | | | |
| **2,2-Dichloropropane** | **34.0** | 2.0 | ug/l | 25.0 | | 136 | 75-135 | | | V1,L3 |
| **1,1-Dichloropropene** | **27.7** | 2.0 | ug/l | 25.0 | | 111 | 80-120 | | | |

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Project Manager



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Attention: Jim Clarke

Client Project ID: 70211-0-0150.2-2.2
Report Number: PKI0340

Sampled: 09/20/01
Received: 09/21/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1J0430 Extracted: 10/04/01** | | | | | | | | | | |
| **LCS Analyzed: 10/04/01 (P1J0430-BS1)** | | | | | | | | | | |
| **cis-1,3-Dichloropropene** | **26.5** | 2.0 | ug/l | 25.0 | | 106 | 80-120 | | | |
| **trans-1,3-Dichloropropene** | **23.6** | 2.0 | ug/l | 25.0 | | 94.4 | 80-120 | | | |
| **Ethylbenzene** | **20.3** | 2.0 | ug/l | 25.0 | | 81.2 | 80-120 | | | |
| **Hexachlorobutadiene** | **27.3** | 5.0 | ug/l | 25.0 | | 109 | 60-145 | | | |
| **2-Hexanone** | **19.2** | 10 | ug/l | 25.0 | | 76.8 | 50-170 | | | |
| **Iodomethane** | **17.3** | 2.0 | ug/l | 25.0 | | 69.2 | 40-155 | | | |
| **Isopropylbenzene** | **22.9** | 2.0 | ug/l | 25.0 | | 91.6 | 80-120 | | | |
| **p-Isopropyltoluene** | **25.9** | 2.0 | ug/l | 25.0 | | 104 | 80-120 | | | |
| **Methylene chloride** | **23.2** | 5.0 | ug/l | 25.0 | | 92.8 | 80-120 | | | |
| **4-Methyl-2-pentanone (MIBK)** | **24.0** | 10 | ug/l | 25.0 | | 96.0 | 70-140 | | | |
| **Methyl-tert-butyl Ether (MTBE)** | **29.3** | 5.0 | ug/l | 25.0 | | 117 | 75-135 | | | |
| **Naphthalene** | **20.7** | 5.0 | ug/l | 25.0 | | 82.8 | 70-130 | | | |
| **n-Propylbenzene** | **25.0** | 2.0 | ug/l | 25.0 | | 100 | 80-120 | | | |
| **Styrene** | **21.8** | 2.0 | ug/l | 25.0 | | 87.2 | 80-120 | | | |
| **1,1,1,2-Tetrachloroethane** | **24.1** | 5.0 | ug/l | 25.0 | | 96.4 | 65-150 | | | |
| **1,1,2,2-Tetrachloroethane** | **22.5** | 2.0 | ug/l | 25.0 | | 90.0 | 70-130 | | | |
| **Tetrachloroethene** | **20.8** | 2.0 | ug/l | 25.0 | | 83.2 | 80-125 | | | |
| **Toluene** | **20.3** | 2.0 | ug/l | 25.0 | | 81.2 | 80-120 | | | |
| **1,2,3-Trichlorobenzene** | **22.6** | 5.0 | ug/l | 25.0 | | 90.4 | 75-125 | | | |
| **1,2,4-Trichlorobenzene** | **24.2** | 5.0 | ug/l | 25.0 | | 96.8 | 80-120 | | | |
| **1,1,1-Trichloroethane** | **31.7** | 2.0 | ug/l | 25.0 | | 127 | 80-120 | | | V1,L3 |
| **1,1,2-Trichloroethane** | **20.8** | 2.0 | ug/l | 25.0 | | 83.2 | 80-120 | | | |
| **Trichloroethene** | **24.8** | 2.0 | ug/l | 25.0 | | 99.2 | 80-120 | | | |
| **Trichlorofluoromethane** | **33.3** | 5.0 | ug/l | 25.0 | | 133 | 75-150 | | | |
| **1,2,3-Trichloropropane** | **24.8** | 10 | ug/l | 25.0 | | 99.2 | 65-135 | | | |
| **1,2,4-Trimethylbenzene** | **25.0** | 2.0 | ug/l | 25.0 | | 100 | 80-120 | | | |
| **1,3,5-Trimethylbenzene** | **25.4** | 2.0 | ug/l | 25.0 | | 102 | 80-120 | | | |
| **Vinyl acetate** | **29.0** | 25 | ug/l | 25.0 | | 116 | 40-120 | | | |
| **Vinyl chloride** | **26.4** | 5.0 | ug/l | 25.0 | | 106 | 80-120 | | | |
| **Xylenes, Total** | **61.6** | 10 | ug/l | 75.0 | | 82.1 | 80-120 | | | |
| *Surrogate: Dibromofluoromethane* | *28.3* | | *ug/l* | *25.0* | | *113* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *21.9* | | *ug/l* | *25.0* | | *87.6* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *23.8* | | *ug/l* | *25.0* | | *95.2* | *80-120* | | | |

Melissa Evans
Project Manager



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Law Engineering
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Attention: Jim Clarke

Client Project ID: 70211-0-0150.2-2.2
Report Number: PKI0340

Sampled: 09/20/01
Received: 09/21/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1J0430 Extracted: 10/04/01** | | | | | | | | | | |
| **LCS Dup Analyzed: 10/04/01 (P1J0430-BSD1)** | | | | | | | | | | |
| **Acetone** | **26.4** | 20 | ug/l | 25.0 | | 106 | 30-200 | 8.70 | 20 | |
| **Benzene** | **23.4** | 2.0 | ug/l | 25.0 | | 93.6 | 80-120 | 1.69 | 20 | |
| **Bromobenzene** | **22.9** | 5.0 | ug/l | 25.0 | | 91.6 | 80-120 | 0.438 | 20 | |
| **Bromochloromethane** | **26.8** | 5.0 | ug/l | 25.0 | | 107 | 80-120 | 0.00 | 20 | |
| **Bromodichloromethane** | **29.1** | 2.0 | ug/l | 25.0 | | 116 | 80-130 | 0.344 | 20 | |
| **Bromoform** | **24.0** | 5.0 | ug/l | 25.0 | | 96.0 | 60-140 | 0.830 | 20 | |
| **Bromomethane** | **29.4** | 5.0 | ug/l | 25.0 | | 118 | 60-150 | 9.25 | 20 | |
| **2-Butanone (MEK)** | **24.7** | 10 | ug/l | 25.0 | | 98.8 | 30-185 | 7.78 | 20 | |
| **n-Butylbenzene** | **26.0** | 5.0 | ug/l | 25.0 | | 104 | 75-130 | 3.40 | 20 | |
| **sec-Butylbenzene** | **25.6** | 5.0 | ug/l | 25.0 | | 102 | 80-125 | 0.778 | 20 | |
| **tert-Butylbenzene** | **25.4** | 5.0 | ug/l | 25.0 | | 102 | 80-120 | 0.791 | 20 | |
| **Carbon Disulfide** | **31.1** | 5.0 | ug/l | 25.0 | | 124 | 65-120 | 0.645 | 20 | L3 |
| **Carbon tetrachloride** | **33.8** | 5.0 | ug/l | 25.0 | | 135 | 75-150 | 0.296 | 20 | |
| **Chlorobenzene** | **20.6** | 2.0 | ug/l | 25.0 | | 82.4 | 80-120 | 0.484 | 20 | |
| **Chloroethane** | **28.4** | 5.0 | ug/l | 25.0 | | 114 | 80-125 | 5.05 | 20 | |
| **Chloroform** | **28.1** | 2.0 | ug/l | 25.0 | | 112 | 80-120 | 1.76 | 20 | |
| **Chloromethane** | **25.9** | 5.0 | ug/l | 25.0 | | 104 | 60-125 | 0.387 | 20 | |
| **2-Chlorotoluene** | **23.8** | 5.0 | ug/l | 25.0 | | 95.2 | 80-120 | 1.67 | 20 | |
| **4-Chlorotoluene** | **24.3** | 5.0 | ug/l | 25.0 | | 97.2 | 80-120 | 2.44 | 20 | |
| **Dibromochloromethane** | **24.4** | 2.0 | ug/l | 25.0 | | 97.6 | 70-150 | 1.63 | 20 | |
| **1,2-Dibromo-3-chloropropane** | **24.6** | 5.0 | ug/l | 25.0 | | 98.4 | 50-145 | 10.8 | 20 | |
| **1,2-Dibromoethane (EDB)** | **21.7** | 2.0 | ug/l | 25.0 | | 86.8 | 75-120 | 1.86 | 20 | |
| **Dibromomethane** | **24.8** | 2.0 | ug/l | 25.0 | | 99.2 | 80-120 | 3.17 | 20 | |
| **1,2-Dichlorobenzene** | **24.0** | 2.0 | ug/l | 25.0 | | 96.0 | 80-120 | 3.28 | 20 | |
| **1,3-Dichlorobenzene** | **24.2** | 2.0 | ug/l | 25.0 | | 96.8 | 80-120 | 2.45 | 20 | |
| **1,4-Dichlorobenzene** | **24.4** | 2.0 | ug/l | 25.0 | | 97.6 | 80-120 | 0.816 | 20 | |
| **Dichlorodifluoromethane** | **34.8** | 5.0 | ug/l | 25.0 | | 139 | 25-140 | 1.43 | 20 | |
| **1,1-Dichloroethane** | **31.0** | 2.0 | ug/l | 25.0 | | 124 | 80-120 | 2.61 | 20 | L3 |
| **1,2-Dichloroethane** | **30.9** | 2.0 | ug/l | 25.0 | | 124 | 80-120 | 4.12 | 20 | L3 |
| **1,1-Dichloroethene** | **29.2** | 5.0 | ug/l | 25.0 | | 117 | 80-120 | 0.687 | 20 | |
| **cis-1,2-Dichloroethene** | **30.0** | 2.0 | ug/l | 25.0 | | 120 | 80-120 | 2.02 | 20 | |
| **trans-1,2-Dichloroethene** | **29.1** | 2.0 | ug/l | 25.0 | | 116 | 80-120 | 2.43 | 20 | |
| **1,2-Dichloropropane** | **24.6** | 2.0 | ug/l | 25.0 | | 98.4 | 80-120 | 2.01 | 20 | |
| **1,3-Dichloropropane** | **21.7** | 2.0 | ug/l | 25.0 | | 86.8 | 80-120 | 1.83 | 20 | |
| **2,2-Dichloropropane** | **35.7** | 2.0 | ug/l | 25.0 | | 143 | 75-135 | 4.88 | 20 | L3 |
| **1,1-Dichloropropene** | **28.0** | 2.0 | ug/l | 25.0 | | 112 | 80-120 | 1.08 | 20 | |

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Attention: Jim Clarke

Client Project ID: 70211-0-0150.2-2.2
Report Number: PKI0340

Sampled: 09/20/01
Received: 09/21/01

**METHOD BLANK/QC DATA**

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1J0430 Extracted: 10/04/01** | | | | | | | | | | |
| **LCS Dup Analyzed: 10/04/01 (P1J0430-BSD1)** | | | | | | | | | | |
| **cis-1,3-Dichloropropene** | **25.9** | 2.0 | ug/l | 25.0 | | 104 | 80-120 | 2.29 | 20 | |
| **trans-1,3-Dichloropropene** | **23.6** | 2.0 | ug/l | 25.0 | | 94.4 | 80-120 | 0.00 | 20 | |
| **Ethylbenzene** | **20.7** | 2.0 | ug/l | 25.0 | | 82.8 | 80-120 | 1.95 | 20 | |
| **Hexachlorobutadiene** | **28.1** | 5.0 | ug/l | 25.0 | | 112 | 60-145 | 2.89 | 20 | |
| **2-Hexanone** | **19.1** | 10 | ug/l | 25.0 | | 76.4 | 50-170 | 0.522 | 20 | |
| **Iodomethane** | **17.1** | 2.0 | ug/l | 25.0 | | 68.4 | 40-155 | 1.16 | 20 | |
| **Isopropylbenzene** | **22.7** | 2.0 | ug/l | 25.0 | | 90.8 | 80-120 | 0.877 | 20 | |
| **p-Isopropyltoluene** | **25.0** | 2.0 | ug/l | 25.0 | | 100 | 80-120 | 3.54 | 20 | |
| **Methylene chloride** | **24.5** | 5.0 | ug/l | 25.0 | | 98.0 | 80-120 | 5.45 | 20 | |
| **4-Methyl-2-pentanone (MIBK)** | **21.6** | 10 | ug/l | 25.0 | | 86.4 | 70-140 | 10.5 | 20 | |
| **Methyl-tert-butyl Ether (MTBE)** | **29.0** | 5.0 | ug/l | 25.0 | | 116 | 75-135 | 1.03 | 20 | |
| **Naphthalene** | **20.7** | 5.0 | ug/l | 25.0 | | 82.8 | 70-130 | 0.00 | 20 | |
| **n-Propylbenzene** | **24.7** | 2.0 | ug/l | 25.0 | | 98.8 | 80-120 | 1.21 | 20 | |
| **Styrene** | **21.4** | 2.0 | ug/l | 25.0 | | 85.6 | 80-120 | 1.85 | 20 | |
| **1,1,1,2-Tetrachloroethane** | **24.6** | 5.0 | ug/l | 25.0 | | 98.4 | 65-150 | 2.05 | 20 | |
| **1,1,2,2-Tetrachloroethane** | **21.4** | 2.0 | ug/l | 25.0 | | 85.6 | 70-130 | 5.01 | 20 | |
| **Tetrachloroethene** | **20.8** | 2.0 | ug/l | 25.0 | | 83.2 | 80-125 | 0.00 | 20 | |
| **Toluene** | **20.8** | 2.0 | ug/l | 25.0 | | 83.2 | 80-120 | 2.43 | 20 | |
| **1,2,3-Trichlorobenzene** | **22.8** | 5.0 | ug/l | 25.0 | | 91.2 | 75-125 | 0.881 | 20 | |
| **1,2,4-Trichlorobenzene** | **23.6** | 5.0 | ug/l | 25.0 | | 94.4 | 80-120 | 2.51 | 20 | |
| **1,1,1-Trichloroethane** | **31.9** | 2.0 | ug/l | 25.0 | | 128 | 80-120 | 0.629 | 20 | L3 |
| **1,1,2-Trichloroethane** | **21.1** | 2.0 | ug/l | 25.0 | | 84.4 | 80-120 | 1.43 | 20 | |
| **Trichloroethene** | **24.8** | 2.0 | ug/l | 25.0 | | 99.2 | 80-120 | 0.00 | 20 | |
| **Trichlorofluoromethane** | **33.9** | 5.0 | ug/l | 25.0 | | 136 | 75-150 | 1.79 | 20 | |
| **1,2,3-Trichloropropane** | **24.1** | 10 | ug/l | 25.0 | | 96.4 | 65-135 | 2.86 | 20 | |
| **1,2,4-Trimethylbenzene** | **25.0** | 2.0 | ug/l | 25.0 | | 100 | 80-120 | 0.00 | 20 | |
| **1,3,5-Trimethylbenzene** | **24.9** | 2.0 | ug/l | 25.0 | | 99.6 | 80-120 | 1.99 | 20 | |
| **Vinyl acetate** | **29.5** | 25 | ug/l | 25.0 | | 118 | 40-120 | 1.71 | 20 | |
| **Vinyl chloride** | **26.4** | 5.0 | ug/l | 25.0 | | 106 | 80-120 | 0.00 | 20 | |
| **Xylenes, Total** | **61.7** | 10 | ug/l | 75.0 | | 82.3 | 80-120 | 0.162 | 20 | |
| *Surrogate: Dibromofluoromethane* | *29.5* | | *ug/l* | *25.0* | | *118* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *22.3* | | *ug/l* | *25.0* | | *89.2* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *24.1* | | *ug/l* | *25.0* | | *96.4* | *80-120* | | | |

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Client Project ID: 70211-0-0150.2-2.2
Report Number: PKI0340

Sampled: 09/20/01
Received: 09/21/01

## METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1J0430 Extracted: 10/04/01** | | | | | | | | | | |
| **Matrix Spike Analyzed: 10/04/01 (P1J0430-MS1)** | | | | | **Source: PKI0358-01** | | | | | |
| **Acetone** | **26.9** | 20 | ug/l | 25.0 | ND | 108 | 5-200 | | | |
| **Benzene** | **24.8** | 2.0 | ug/l | 25.0 | ND | 99.2 | 80-120 | | | |
| **Bromobenzene** | **24.5** | 5.0 | ug/l | 25.0 | ND | 98.0 | 80-120 | | | |
| **Bromochloromethane** | **28.7** | 5.0 | ug/l | 25.0 | ND | 115 | 60-135 | | | |
| **Bromodichloromethane** | **29.9** | 2.0 | ug/l | 25.0 | ND | 120 | 80-120 | | | |
| **Bromoform** | **27.2** | 5.0 | ug/l | 25.0 | ND | 109 | 40-140 | | | |
| **Bromomethane** | **30.9** | 5.0 | ug/l | 25.0 | ND | 124 | 25-165 | | | |
| **2-Butanone (MEK)** | **32.2** | 10 | ug/l | 25.0 | ND | 129 | 10-160 | | | |
| **n-Butylbenzene** | **26.6** | 5.0 | ug/l | 25.0 | ND | 106 | 75-135 | | | |
| **sec-Butylbenzene** | **27.1** | 5.0 | ug/l | 25.0 | ND | 108 | 80-135 | | | |
| **tert-Butylbenzene** | **26.1** | 5.0 | ug/l | 25.0 | ND | 104 | 80-125 | | | |
| **Carbon Disulfide** | **31.9** | 5.0 | ug/l | 25.0 | ND | 128 | 20-120 | | | N2 |
| **Carbon tetrachloride** | **34.0** | 5.0 | ug/l | 25.0 | ND | 136 | 80-145 | | | |
| **Chlorobenzene** | **22.3** | 2.0 | ug/l | 25.0 | ND | 89.2 | 80-120 | | | |
| **Chloroethane** | **28.8** | 5.0 | ug/l | 25.0 | ND | 115 | 30-150 | | | |
| **Chloroform** | **30.8** | 2.0 | ug/l | 25.0 | ND | 123 | 80-125 | | | |
| **Chloromethane** | **24.3** | 5.0 | ug/l | 25.0 | ND | 97.2 | 15-140 | | | |
| **2-Chlorotoluene** | **24.9** | 5.0 | ug/l | 25.0 | ND | 99.6 | 80-125 | | | |
| **4-Chlorotoluene** | **25.7** | 5.0 | ug/l | 25.0 | ND | 103 | 80-125 | | | |
| **Dibromochloromethane** | **27.2** | 2.0 | ug/l | 25.0 | ND | 109 | 75-135 | | | |
| **1,2-Dibromo-3-chloropropane** | **31.4** | 5.0 | ug/l | 25.0 | ND | 126 | 25-185 | | | |
| **1,2-Dibromoethane (EDB)** | **23.8** | 2.0 | ug/l | 25.0 | ND | 95.2 | 45-145 | | | |
| **Dibromomethane** | **26.4** | 2.0 | ug/l | 25.0 | ND | 106 | 55-140 | | | |
| **1,2-Dichlorobenzene** | **25.8** | 2.0 | ug/l | 25.0 | ND | 103 | 80-120 | | | |
| **1,3-Dichlorobenzene** | **25.5** | 2.0 | ug/l | 25.0 | ND | 102 | 80-120 | | | |
| **1,4-Dichlorobenzene** | **25.9** | 2.0 | ug/l | 25.0 | ND | 104 | 80-120 | | | |
| **Dichlorodifluoromethane** | **34.9** | 5.0 | ug/l | 25.0 | ND | 140 | 25-145 | | | |
| **1,1-Dichloroethane** | **31.5** | 2.0 | ug/l | 25.0 | ND | 126 | 75-120 | | | N2 |
| **1,2-Dichloroethane** | **33.0** | 2.0 | ug/l | 25.0 | ND | 132 | 60-135 | | | |
| **1,1-Dichloroethene** | **29.4** | 5.0 | ug/l | 25.0 | ND | 118 | 55-120 | | | |
| **cis-1,2-Dichloroethene** | **31.0** | 2.0 | ug/l | 25.0 | ND | 124 | 75-120 | | | M1 |
| **trans-1,2-Dichloroethene** | **29.1** | 2.0 | ug/l | 25.0 | ND | 116 | 65-120 | | | |
| **1,2-Dichloropropane** | **25.7** | 2.0 | ug/l | 25.0 | ND | 103 | 80-125 | | | |
| **1,3-Dichloropropane** | **24.3** | 2.0 | ug/l | 25.0 | ND | 97.2 | 55-140 | | | |
| **2,2-Dichloropropane** | **31.1** | 2.0 | ug/l | 25.0 | ND | 124 | 45-165 | | | |
| **1,1-Dichloropropene** | **28.6** | 2.0 | ug/l | 25.0 | ND | 114 | 80-120 | | | |

Melissa Evans
Project Manager



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Attention: Jim Clarke

Client Project ID: 70211-0-0150.2-2.2
Report Number: PKI0340

Sampled: 09/20/01
Received: 09/21/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1J0430 Extracted: 10/04/01** | | | | | | | | | | |
| **Matrix Spike Analyzed: 10/04/01 (P1J0430-MS1)** | | | | | **Source: PKI0358-01** | | | | | |
| **cis-1,3-Dichloropropene** | **26.1** | 2.0 | ug/l | 25.0 | ND | 104 | 80-120 | | | |
| **trans-1,3-Dichloropropene** | **25.2** | 2.0 | ug/l | 25.0 | ND | 101 | 70-120 | | | |
| **Ethylbenzene** | **22.1** | 2.0 | ug/l | 25.0 | ND | 88.4 | 80-120 | | | |
| **Hexachlorobutadiene** | **24.9** | 5.0 | ug/l | 25.0 | ND | 99.6 | 80-135 | | | |
| **2-Hexanone** | **23.0** | 10 | ug/l | 25.0 | ND | 92.0 | 25-185 | | | |
| **Iodomethane** | **18.6** | 2.0 | ug/l | 25.0 | ND | 74.4 | 30-155 | | | |
| **Isopropylbenzene** | **24.0** | 2.0 | ug/l | 25.0 | ND | 96.0 | 80-125 | | | |
| **p-Isopropyltoluene** | **26.1** | 2.0 | ug/l | 25.0 | ND | 104 | 80-125 | | | |
| **Methylene chloride** | **24.4** | 5.0 | ug/l | 25.0 | ND | 97.6 | 55-125 | | | |
| **4-Methyl-2-pentanone (MIBK)** | **25.5** | 10 | ug/l | 25.0 | ND | 102 | 10-175 | | | |
| **Methyl-tert-butyl Ether (MTBE)** | **31.0** | 5.0 | ug/l | 25.0 | ND | 124 | 55-135 | | | |
| **Naphthalene** | **22.7** | 5.0 | ug/l | 25.0 | ND | 90.8 | 15-160 | | | |
| **n-Propylbenzene** | **26.1** | 2.0 | ug/l | 25.0 | ND | 104 | 80-130 | | | |
| **Styrene** | **23.3** | 2.0 | ug/l | 25.0 | ND | 93.2 | 60-135 | | | |
| **1,1,1,2-Tetrachloroethane** | **26.7** | 5.0 | ug/l | 25.0 | ND | 107 | 80-135 | | | |
| **1,1,2,2-Tetrachloroethane** | **25.4** | 2.0 | ug/l | 25.0 | ND | 102 | 35-150 | | | |
| **Tetrachloroethene** | **48.4** | 2.0 | ug/l | 25.0 | 28 | 81.6 | 80-120 | | | |
| **Toluene** | **22.2** | 2.0 | ug/l | 25.0 | ND | 88.8 | 80-120 | | | |
| **1,2,3-Trichlorobenzene** | **23.9** | 5.0 | ug/l | 25.0 | ND | 95.6 | 45-145 | | | |
| **1,2,4-Trichlorobenzene** | **24.4** | 5.0 | ug/l | 25.0 | ND | 97.6 | 65-130 | | | |
| **1,1,1-Trichloroethane** | **32.4** | 2.0 | ug/l | 25.0 | ND | 130 | 80-120 | | | N2 |
| **1,1,2-Trichloroethane** | **23.5** | 2.0 | ug/l | 25.0 | ND | 94.0 | 55-145 | | | |
| **Trichloroethene** | **27.3** | 2.0 | ug/l | 25.0 | ND | 109 | 80-120 | | | |
| **Trichlorofluoromethane** | **35.0** | 5.0 | ug/l | 25.0 | ND | 140 | 70-145 | | | |
| **1,2,3-Trichloropropane** | **28.2** | 10 | ug/l | 25.0 | ND | 113 | 20-160 | | | |
| **1,2,4-Trimethylbenzene** | **26.3** | 2.0 | ug/l | 25.0 | ND | 105 | 70-135 | | | |
| **1,3,5-Trimethylbenzene** | **26.6** | 2.0 | ug/l | 25.0 | ND | 106 | 80-125 | | | |
| **Vinyl acetate** | **27.3** | 25 | ug/l | 25.0 | ND | 109 | 25-130 | | | |
| **Vinyl chloride** | **25.4** | 5.0 | ug/l | 25.0 | ND | 102 | 25-135 | | | |
| **Xylenes, Total** | **66.1** | 10 | ug/l | 75.0 | ND | 88.1 | 80-120 | | | |
| *Surrogate: Dibromofluoromethane* | *29.1* | | *ug/l* | *25.0* | | *116* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *22.8* | | *ug/l* | *25.0* | | *91.2* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *24.5* | | *ug/l* | *25.0* | | *98.0* | *80-120* | | | |

Melissa Evans
Project Manager



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Law Engineering
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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150.2-2.2
Report Number: PKI0340

Sampled: 09/20/01
Received: 09/21/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1J0430 Extracted: 10/04/01** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 10/04/01 (P1J0430-MSD1)** | | | | | **Source: PKI0358-01** | | | | | |
| **Acetone** | **30.5** | 20 | ug/l | 25.0 | ND | 122 | 5-200 | 12.5 | 20 | |
| **Benzene** | **25.0** | 2.0 | ug/l | 25.0 | ND | 100 | 80-120 | 0.803 | 20 | |
| **Bromobenzene** | **24.6** | 5.0 | ug/l | 25.0 | ND | 98.4 | 80-120 | 0.407 | 20 | |
| **Bromochloromethane** | **28.1** | 5.0 | ug/l | 25.0 | ND | 112 | 60-135 | 2.11 | 20 | |
| **Bromodichloromethane** | **29.2** | 2.0 | ug/l | 25.0 | ND | 117 | 80-120 | 2.37 | 20 | |
| **Bromoform** | **27.7** | 5.0 | ug/l | 25.0 | ND | 111 | 40-140 | 1.82 | 20 | |
| **Bromomethane** | **35.3** | 5.0 | ug/l | 25.0 | ND | 141 | 25-165 | 13.3 | 20 | |
| **2-Butanone (MEK)** | **31.9** | 10 | ug/l | 25.0 | ND | 128 | 10-160 | 0.936 | 20 | |
| **n-Butylbenzene** | **26.8** | 5.0 | ug/l | 25.0 | ND | 107 | 75-135 | 0.749 | 20 | |
| **sec-Butylbenzene** | **26.5** | 5.0 | ug/l | 25.0 | ND | 106 | 80-135 | 2.24 | 20 | |
| **tert-Butylbenzene** | **25.5** | 5.0 | ug/l | 25.0 | ND | 102 | 80-125 | 2.33 | 20 | |
| **Carbon Disulfide** | **32.4** | 5.0 | ug/l | 25.0 | ND | 130 | 20-120 | 1.56 | 20 | N2 |
| **Carbon tetrachloride** | **35.8** | 5.0 | ug/l | 25.0 | ND | 143 | 80-145 | 5.16 | 20 | |
| **Chlorobenzene** | **22.6** | 2.0 | ug/l | 25.0 | ND | 90.4 | 80-120 | 1.34 | 20 | |
| **Chloroethane** | **31.1** | 5.0 | ug/l | 25.0 | ND | 124 | 30-150 | 7.68 | 20 | |
| **Chloroform** | **31.0** | 2.0 | ug/l | 25.0 | ND | 124 | 80-125 | 0.647 | 20 | |
| **Chloromethane** | **27.2** | 5.0 | ug/l | 25.0 | ND | 109 | 15-140 | 11.3 | 20 | |
| **2-Chlorotoluene** | **25.6** | 5.0 | ug/l | 25.0 | ND | 102 | 80-125 | 2.77 | 20 | |
| **4-Chlorotoluene** | **25.6** | 5.0 | ug/l | 25.0 | ND | 102 | 80-125 | 0.390 | 20 | |
| **Dibromochloromethane** | **27.3** | 2.0 | ug/l | 25.0 | ND | 109 | 75-135 | 0.367 | 20 | |
| **1,2-Dibromo-3-chloropropane** | **30.6** | 5.0 | ug/l | 25.0 | ND | 122 | 25-185 | 2.58 | 20 | |
| **1,2-Dibromoethane (EDB)** | **24.1** | 2.0 | ug/l | 25.0 | ND | 96.4 | 45-145 | 1.25 | 20 | |
| **Dibromomethane** | **26.6** | 2.0 | ug/l | 25.0 | ND | 106 | 55-140 | 0.755 | 20 | |
| **1,2-Dichlorobenzene** | **25.3** | 2.0 | ug/l | 25.0 | ND | 101 | 80-120 | 1.96 | 20 | |
| **1,3-Dichlorobenzene** | **25.7** | 2.0 | ug/l | 25.0 | ND | 103 | 80-120 | 0.781 | 20 | |
| **1,4-Dichlorobenzene** | **25.8** | 2.0 | ug/l | 25.0 | ND | 103 | 80-120 | 0.387 | 20 | |
| **Dichlorodifluoromethane** | **37.4** | 5.0 | ug/l | 25.0 | ND | 150 | 25-145 | 6.92 | 20 | N2 |
| **1,1-Dichloroethane** | **32.3** | 2.0 | ug/l | 25.0 | ND | 129 | 75-120 | 2.51 | 20 | N2 |
| **1,2-Dichloroethane** | **32.5** | 2.0 | ug/l | 25.0 | ND | 130 | 60-135 | 1.53 | 20 | |
| **1,1-Dichloroethene** | **29.6** | 5.0 | ug/l | 25.0 | ND | 118 | 55-120 | 0.678 | 20 | |
| **cis-1,2-Dichloroethene** | **31.2** | 2.0 | ug/l | 25.0 | ND | 125 | 75-120 | 0.643 | 20 | M1 |
| **trans-1,2-Dichloroethene** | **29.8** | 2.0 | ug/l | 25.0 | ND | 119 | 65-120 | 2.38 | 20 | |
| **1,2-Dichloropropane** | **25.9** | 2.0 | ug/l | 25.0 | ND | 104 | 80-125 | 0.775 | 20 | |
| **1,3-Dichloropropane** | **24.7** | 2.0 | ug/l | 25.0 | ND | 98.8 | 55-140 | 1.63 | 20 | |
| **2,2-Dichloropropane** | **33.0** | 2.0 | ug/l | 25.0 | ND | 132 | 45-165 | 5.93 | 20 | |
| **1,1-Dichloropropene** | **29.5** | 2.0 | ug/l | 25.0 | ND | 118 | 80-120 | 3.10 | 20 | |

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Attention: Jim Clarke

Client Project ID: 70211-0-0150.2-2.2
Report Number: PKI0340

Sampled: 09/20/01
Received: 09/21/01

METHOD BLANK QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1J0430 Extracted: 10/04/01** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 10/04/01 (P1J0430-MSD1)** | | | | | **Source: PKI0358-01** | | | | | |
| **cis-1,3-Dichloropropene** | **25.7** | 2.0 | ug/l | 25.0 | ND | 103 | 80-120 | 1.54 | 20 | |
| **trans-1,3-Dichloropropene** | **25.1** | 2.0 | ug/l | 25.0 | ND | 100 | 70-120 | 0.398 | 20 | |
| **Ethylbenzene** | **21.8** | 2.0 | ug/l | 25.0 | ND | 87.2 | 80-120 | 1.37 | 20 | |
| **Hexachlorobutadiene** | **26.8** | 5.0 | ug/l | 25.0 | ND | 107 | 80-135 | 7.35 | 20 | |
| **2-Hexanone** | **23.1** | 10 | ug/l | 25.0 | ND | 92.4 | 25-185 | 0.434 | 20 | |
| **Iodomethane** | **16.8** | 2.0 | ug/l | 25.0 | ND | 67.2 | 30-155 | 10.2 | 20 | |
| **Isopropylbenzene** | **24.1** | 2.0 | ug/l | 25.0 | ND | 96.4 | 80-125 | 0.416 | 20 | |
| **p-Isopropyltoluene** | **26.0** | 2.0 | ug/l | 25.0 | ND | 104 | 80-125 | 0.384 | 20 | |
| **Methylene chloride** | **24.6** | 5.0 | ug/l | 25.0 | ND | 98.4 | 55-125 | 0.816 | 20 | |
| **4-Methyl-2-pentanone (MIBK)** | **26.4** | 10 | ug/l | 25.0 | ND | 106 | 10-175 | 3.47 | 20 | |
| **Methyl-tert-butyl Ether (MTBE)** | **31.1** | 5.0 | ug/l | 25.0 | ND | 124 | 55-135 | 0.322 | 20 | |
| **Naphthalene** | **24.2** | 5.0 | ug/l | 25.0 | ND | 96.8 | 15-160 | 6.40 | 20 | |
| **n-Propylbenzene** | **26.1** | 2.0 | ug/l | 25.0 | ND | 104 | 80-130 | 0.00 | 20 | |
| **Styrene** | **22.2** | 2.0 | ug/l | 25.0 | ND | 88.8 | 60-135 | 4.84 | 20 | |
| **1,1,1,2-Tetrachloroethane** | **27.1** | 5.0 | ug/l | 25.0 | ND | 108 | 80-135 | 1.49 | 20 | |
| **1,1,2,2-Tetrachloroethane** | **25.1** | 2.0 | ug/l | 25.0 | ND | 100 | 35-150 | 1.19 | 20 | |
| **Tetrachloroethene** | **49.5** | 2.0 | ug/l | 25.0 | 28 | 86.0 | 80-120 | 2.25 | 20 | |
| **Toluene** | **22.3** | 2.0 | ug/l | 25.0 | ND | 89.2 | 80-120 | 0.449 | 20 | |
| **1,2,3-Trichlorobenzene** | **24.4** | 5.0 | ug/l | 25.0 | ND | 97.6 | 45-145 | 2.07 | 20 | |
| **1,2,4-Trichlorobenzene** | **24.1** | 5.0 | ug/l | 25.0 | ND | 96.4 | 65-130 | 1.24 | 20 | |
| **1,1,1-Trichloroethane** | **33.1** | 2.0 | ug/l | 25.0 | ND | 132 | 80-120 | 2.14 | 20 | N2 |
| **1,1,2-Trichloroethane** | **23.6** | 2.0 | ug/l | 25.0 | ND | 94.4 | 55-145 | 0.425 | 20 | |
| **Trichloroethene** | **27.0** | 2.0 | ug/l | 25.0 | ND | 108 | 80-120 | 1.10 | 20 | |
| **Trichlorofluoromethane** | **35.1** | 5.0 | ug/l | 25.0 | ND | 140 | 70-145 | 0.285 | 20 | |
| **1,2,3-Trichloropropane** | **27.6** | 10 | ug/l | 25.0 | ND | 110 | 20-160 | 2.15 | 20 | |
| **1,2,4-Trimethylbenzene** | **25.2** | 2.0 | ug/l | 25.0 | ND | 101 | 70-135 | 4.27 | 20 | |
| **1,3,5-Trimethylbenzene** | **25.9** | 2.0 | ug/l | 25.0 | ND | 104 | 80-125 | 2.67 | 20 | |
| **Vinyl acetate** | **27.1** | 25 | ug/l | 25.0 | ND | 108 | 25-130 | 0.735 | 20 | |
| **Vinyl chloride** | **27.8** | 5.0 | ug/l | 25.0 | ND | 111 | 25-135 | 9.02 | 20 | |
| **Xylenes, Total** | **65.7** | 10 | ug/l | 75.0 | ND | 87.6 | 80-120 | 0.607 | 20 | |
| *Surrogate: Dibromofluoromethane* | *28.5* | | *ug/l* | *25.0* | | *114* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *22.2* | | *ug/l* | *25.0* | | *88.8* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *24.2* | | *ug/l* | *25.0* | | *96.8* | *80-120* | | | |

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Attention: Jim Clarke

Client Project ID: 70211-0-0150.2-2.2
Report Number: PKI0340

Sampled: 09/20/01
Received: 09/21/01

## METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1I2613 Extracted: 09/26/01** | | | | | | | | | | |
| **Blank Analyzed: 09/26/01 (P1I2613-BLK1)** | | | | | | | | | | |
| Arsenic | ND | 0.050 | mg/l | | | | | | | |
| Chromium | ND | 0.010 | mg/l | | | | | | | B4 |
| Iron | ND | 0.20 | mg/l | | | | | | | |
| Magnesium | ND | 0.50 | mg/l | | | | | | | |
| Manganese | ND | 0.020 | mg/l | | | | | | | |
| Nickel | ND | 0.050 | mg/l | | | | | | | |
| **LCS Analyzed: 09/26/01 (P1I2613-BS1)** | | | | | | | | | | |
| **Arsenic** | **1.03** | 0.050 | mg/l | 1.00 | | 103 | 85-115 | | | |
| **Chromium** | **0.974** | 0.010 | mg/l | 1.00 | | 97.4 | 85-115 | | | |
| **Iron** | **9.99** | 0.20 | mg/l | 10.0 | | 99.9 | 85-115 | | | |
| **Magnesium** | **9.84** | 0.50 | mg/l | 10.0 | | 98.4 | 85-115 | | | |
| **Manganese** | **0.981** | 0.020 | mg/l | 1.00 | | 98.1 | 85-115 | | | |
| **Nickel** | **0.956** | 0.050 | mg/l | 1.00 | | 95.6 | 85-115 | | | |
| **LCS Dup Analyzed: 09/26/01 (P1I2613-BSD1)** | | | | | | | | | | |
| **Arsenic** | **0.992** | 0.050 | mg/l | 1.00 | | 99.2 | 85-115 | 3.76 | 20 | |
| **Chromium** | **0.974** | 0.010 | mg/l | 1.00 | | 97.4 | 85-115 | 0.00 | 20 | |
| **Iron** | **10.0** | 0.20 | mg/l | 10.0 | | 100 | 85-115 | 0.100 | 20 | |
| **Magnesium** | **9.86** | 0.50 | mg/l | 10.0 | | 98.6 | 85-115 | 0.203 | 20 | |
| **Manganese** | **1.04** | 0.020 | mg/l | 1.00 | | 104 | 85-115 | 5.84 | 20 | |
| **Nickel** | **0.958** | 0.050 | mg/l | 1.00 | | 95.8 | 85-115 | 0.209 | 20 | |
| **Matrix Spike Analyzed: 09/26/01 (P1I2613-MS1)** | | | | | **Source: PKI0351-01** | | | | | |
| **Arsenic** | **1.16** | 0.050 | mg/l | 1.00 | ND | 116 | 70-130 | | | |
| **Chromium** | **1.06** | 0.010 | mg/l | 1.00 | ND | 105 | 70-130 | | | |
| **Iron** | **11.4** | 0.20 | mg/l | 10.0 | 0.30 | 111 | 70-130 | | | |
| **Magnesium** | **53.9** | 0.50 | mg/l | 10.0 | 45 | 89.0 | 70-130 | | | |
| **Manganese** | **1.09** | 0.020 | mg/l | 1.00 | ND | 109 | 70-130 | | | |
| **Nickel** | **1.01** | 0.050 | mg/l | 1.00 | ND | 101 | 70-130 | | | |

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Sampled: 09/20/01
Received: 09/21/01

## METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1I2613 Extracted: 09/26/01** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 09/26/01 (P1I2613-MSD1)** | | | | | **Source: PKI0351-01** | | | | | |
| **Arsenic** | **1.14** | 0.050 | mg/l | 1.00 | ND | 114 | 70-130 | 1.74 | 20 | |
| **Chromium** | **1.06** | 0.010 | mg/l | 1.00 | ND | 105 | 70-130 | 0.00 | 20 | |
| **Iron** | **11.3** | 0.20 | mg/l | 10.0 | 0.30 | 110 | 70-130 | 0.881 | 20 | |
| **Magnesium** | **53.9** | 0.50 | mg/l | 10.0 | 45 | 89.0 | 70-130 | 0.00 | 20 | |
| **Manganese** | **1.08** | 0.020 | mg/l | 1.00 | ND | 108 | 70-130 | 0.922 | 20 | |
| **Nickel** | **1.01** | 0.050 | mg/l | 1.00 | ND | 101 | 70-130 | 0.00 | 20 | |
| **Batch: P1I2721 Extracted: 09/27/01** | | | | | | | | | | |
| **Blank Analyzed: 09/28/01 (P1I2721-BLK1)** | | | | | | | | | | |
| Arsenic | ND | 0.050 | mg/l | | | | | | | |
| **LCS Analyzed: 09/28/01 (P1I2721-BS1)** | | | | | | | | | | |
| **Arsenic** | **0.990** | 0.050 | mg/l | 1.00 | | 99.0 | 85-115 | | | |
| **Matrix Spike Analyzed: 09/28/01 (P1I2721-MS1)** | | | | | **Source: PKI0338-01** | | | | | |
| **Arsenic** | **1.07** | 0.050 | mg/l | 1.00 | ND | 107 | 70-130 | | | |
| **Matrix Spike Dup Analyzed: 09/28/01 (P1I2721-MSD1)** | | | | | **Source: PKI0338-01** | | | | | |
| **Arsenic** | **0.980** | 0.050 | mg/l | 1.00 | ND | 98.0 | 70-130 | 8.78 | 20 | |
| **Batch: P1J0212 Extracted: 10/02/01** | | | | | | | | | | |
| **Blank Analyzed: 10/03/01 (P1J0212-BLK1)** | | | | | | | | | | |
| Arsenic | ND | 0.050 | mg/l | | | | | | | |
| Chromium | ND | 0.010 | mg/l | | | | | | | |
| Iron | ND | 0.20 | mg/l | | | | | | | |
| Magnesium | ND | 0.50 | mg/l | | | | | | | |
| Manganese | ND | 0.020 | mg/l | | | | | | | |
| Nickel | ND | 0.050 | mg/l | | | | | | | |

Melissa Evans
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150.2-2.2
Report Number: PKI0340

Sampled: 09/20/01
Received: 09/21/01

METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1J0212 Extracted: 10/02/01** | | | | | | | | | | |
| **LCS Analyzed: 10/03/01 (P1J0212-BS1)** | | | | | | | | | | |
| **Arsenic** | **1.04** | 0.050 | mg/l | 1.00 | | 104 | 85-115 | | | |
| **Chromium** | **1.03** | 0.010 | mg/l | 1.00 | | 103 | 85-115 | | | |
| **Iron** | **10.6** | 0.20 | mg/l | 10.0 | | 106 | 85-115 | | | |
| **Magnesium** | **10.2** | 0.50 | mg/l | 10.0 | | 102 | 85-115 | | | |
| **Manganese** | **1.03** | 0.020 | mg/l | 1.00 | | 103 | 85-115 | | | |
| **Nickel** | **1.02** | 0.050 | mg/l | 1.00 | | 102 | 85-115 | | | |
| **Matrix Spike Analyzed: 10/04/01 (P1J0212-MS1)** | | | | | **Source: PKI0318-03RE2** | | | | | |
| **Arsenic** | **1.05** | 0.050 | mg/l | 1.00 | ND | 105 | 70-130 | | | |
| **Chromium** | **1.01** | 0.010 | mg/l | 1.00 | ND | 101 | 70-130 | | | |
| **Iron** | **10.5** | 0.20 | mg/l | 10.0 | ND | 105 | 70-130 | | | |
| **Magnesium** | **52.0** | 0.50 | mg/l | 10.0 | 43 | 90.0 | 70-130 | | | |
| **Manganese** | **2.50** | 0.020 | mg/l | 1.00 | 1.5 | 100 | 70-130 | | | |
| **Nickel** | **0.974** | 0.050 | mg/l | 1.00 | ND | 97.4 | 70-130 | | | |
| **Matrix Spike Dup Analyzed: 10/04/01 (P1J0212-MSD1)** | | | | | **Source: PKI0318-03RE2** | | | | | |
| **Arsenic** | **1.06** | 0.050 | mg/l | 1.00 | ND | 106 | 70-130 | 0.948 | 20 | |
| **Chromium** | **1.02** | 0.010 | mg/l | 1.00 | ND | 102 | 70-130 | 0.985 | 20 | |
| **Iron** | **10.5** | 0.20 | mg/l | 10.0 | ND | 105 | 70-130 | 0.00 | 20 | |
| **Magnesium** | **52.7** | 0.50 | mg/l | 10.0 | 43 | 97.0 | 70-130 | 1.34 | 20 | |
| **Manganese** | **2.53** | 0.020 | mg/l | 1.00 | 1.5 | 103 | 70-130 | 1.19 | 20 | |
| **Nickel** | **0.987** | 0.050 | mg/l | 1.00 | ND | 98.7 | 70-130 | 1.33 | 20 | |
| **Batch: P1J0310 Extracted: 10/03/01** | | | | | | | | | | |
| **Blank Analyzed: 10/04/01 (P1J0310-BLK1)** | | | | | | | | | | |
| Arsenic | ND | 0.050 | mg/l | | | | | | | |
| Chromium | ND | 0.010 | mg/l | | | | | | | |
| Iron | ND | 0.20 | mg/l | | | | | | | |
| Magnesium | ND | 0.50 | mg/l | | | | | | | |
| Manganese | ND | 0.020 | mg/l | | | | | | | |
| Nickel | ND | 0.050 | mg/l | | | | | | | |

Melissa Evans
Project Manager



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150.2-2.2
Report Number: PKI0340

Sampled: 09/20/01
Received: 09/21/01

## METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1J0310 Extracted: 10/03/01** | | | | | | | | | | |
| **LCS Analyzed: 10/04/01 (P1J0310-BS1)** | | | | | | | | | | |
| **Arsenic** | **1.00** | 0.050 | mg/l | 1.00 | | 100 | 85-115 | | | |
| **Chromium** | **0.983** | 0.010 | mg/l | 1.00 | | 98.3 | 85-115 | | | |
| **Iron** | **10.3** | 0.20 | mg/l | 10.0 | | 103 | 85-115 | | | |
| **Magnesium** | **9.98** | 0.50 | mg/l | 10.0 | | 99.8 | 85-115 | | | |
| **Manganese** | **1.00** | 0.020 | mg/l | 1.00 | | 100 | 85-115 | | | |
| **Nickel** | **0.972** | 0.050 | mg/l | 1.00 | | 97.2 | 85-115 | | | |
| **LCS Dup Analyzed: 10/04/01 (P1J0310-BSD1)** | | | | | | | | | | |
| **Arsenic** | **0.988** | 0.050 | mg/l | 1.00 | | 98.8 | 85-115 | 1.21 | 20 | |
| **Chromium** | **0.972** | 0.010 | mg/l | 1.00 | | 97.2 | 85-115 | 1.13 | 20 | |
| **Iron** | **10.2** | 0.20 | mg/l | 10.0 | | 102 | 85-115 | 0.976 | 20 | |
| **Magnesium** | **9.80** | 0.50 | mg/l | 10.0 | | 98.0 | 85-115 | 1.82 | 20 | |
| **Manganese** | **0.990** | 0.020 | mg/l | 1.00 | | 99.0 | 85-115 | 1.01 | 20 | |
| **Nickel** | **0.963** | 0.050 | mg/l | 1.00 | | 96.3 | 85-115 | 0.930 | 20 | |
| **Matrix Spike Analyzed: 10/04/01 (P1J0310-MS1)** | | | | | **Source: PKI0464-03** | | | | | |
| **Arsenic** | **1.01** | 0.050 | mg/l | 1.00 | ND | 99.6 | 70-130 | | | |
| **Chromium** | **0.961** | 0.010 | mg/l | 1.00 | 0.010 | 95.1 | 70-130 | | | |
| **Iron** | **19.1** | 0.20 | mg/l | 10.0 | 8.1 | 110 | 70-130 | | | |
| **Magnesium** | **11.6** | 0.50 | mg/l | 10.0 | 1.3 | 103 | 70-130 | | | |
| **Manganese** | **1.27** | 0.020 | mg/l | 1.00 | 0.27 | 100 | 70-130 | | | |
| **Nickel** | **0.954** | 0.050 | mg/l | 1.00 | ND | 94.8 | 70-130 | | | |
| **Matrix Spike Dup Analyzed: 10/04/01 (P1J0310-MSD1)** | | | | | **Source: PKI0464-03** | | | | | |
| **Arsenic** | **1.03** | 0.050 | mg/l | 1.00 | ND | 102 | 70-130 | 1.96 | 20 | |
| **Chromium** | **0.978** | 0.010 | mg/l | 1.00 | 0.010 | 96.8 | 70-130 | 1.75 | 20 | |
| **Iron** | **18.9** | 0.20 | mg/l | 10.0 | 8.1 | 108 | 70-130 | 1.05 | 20 | |
| **Magnesium** | **11.8** | 0.50 | mg/l | 10.0 | 1.3 | 105 | 70-130 | 1.71 | 20 | |
| **Manganese** | **1.28** | 0.020 | mg/l | 1.00 | 0.27 | 101 | 70-130 | 0.784 | 20 | |
| **Nickel** | **0.976** | 0.050 | mg/l | 1.00 | ND | 97.0 | 70-130 | 2.28 | 20 | |

Melissa Evans
Project Manager



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| | | |
|---|---|---|
| Law Engineering<br>4634 S. 36th Place<br>Phoenix, AZ 85040<br>Attention: Jim Clarke | Client Project ID: 70211-0-0150.2-2.2<br>Report Number: PKI0340 | Sampled: 09/20/01<br>Received: 09/21/01 |

## METHOD BLANK/QC DATA

## DATA QUALIFIERS AND DEFINITIONS

| | |
|---|---|
| **B4** | Target analyte detected in blank at/above method acceptance criteria. |
| **L3** | The associated blank spike recovery was above method acceptance limits. See case narrative. |
| **M1** | Matrix spike recovery was high, the method control sample recovery was acceptable. |
| **M2** | Matrix spike recovery was low, the method control sample recovery was acceptable. |
| **N2** | See corrective action report. |
| **R4** | MS/MSD RPD exceeded the method control limit. Recovery met acceptance criteria. |
| **V1** | CCV recovery was above method acceptance limits. This target analyte was not detected in the sample. |
| **ND** | Analyte NOT DETECTED at or above the reporting limit |
| **NR** | Not reported. |
| **RPD** | Relative Percent Difference |

Melissa Evans
Project Manager



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# CHAIN OF CUSTODY FORM

Quote #: _____ Page 1 of 2

Client Name/Address: LAW PAX AZ

Project/PO Number: 70211-0-0150.2.2

Project Manager: JIM CLARKE

Phone Number: 437 0230

Sampler: PATRICK COOK

Fax Number: 437 3607

Analysis Required: 8260 (AS Cl, Mg, Mn Ca Tot. Hardness)

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date/Time | Preservatives | Special Instructions |
|---|---|---|---|---|---|---|
| MW 11-170 | W | VOA | 2 | 9/20/01 1155 | | PKE0340-01 |
| | | POLY | 1 | 1155 | | |
| MW-200 | | VOA | 2 | 1340 | | 02 |
| | | POLY | 1 | 1340 | | |
| MW-240 | | VOA | 2 | 1340 | | |
| | | POLY | 1 | 1340 | | 03 |
| MW 10-130 | | VOA | 1 | 1500 | | 04 |
| | | POLY | 1 | 1500 | | 04D |
| MW 10-170 | | VOA | 2 | 1515 | | 05 |
| | | POLY | 1 | | | |
| ~~MW 10-235~~ | | ~~VOA~~ | ~~2~~ | | | |
| | | POLY | 1 | | | |
| MW 10-235 | | VOA | 2 | | | 06 |
| | | | | | | |

Relinquished By: Michelle Visintin Date /Time: 09210 0835

Received by: Date /Time: 9.21.01

Relinquished By: Date /Time:

Received by: Date /Time: 9/21/01

By: Date /Time: 9/21/01

Received in Lab by: Date /Time: 9/21/01 0835

Turnaround Time: (Check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal ✓

Sample Integrity: (Check)
intact ✓ on ice ✓

Temp 3°C

quishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is days from the date of invoice. Sample(s) will be disposed of after 30 days.

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# CHAIN OF CUSTODY FORM

Quote #: _____ Page 2 of 2

| Client Name/Address: | Project/PO Number: |
|---|---|
| LAW Phoenix AZ | 702110 00150 |
| **Project Manager:** Jim Clarke | **Phone Number:** 437 0250 |
| **Sampler:** Patrick Cook | **Fax Number:** 437 3675 |

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date/Time | Preservatives | 8260 | MS of 2001 w/MD for MW9 | Special Instructions |
|---|---|---|---|---|---|---|---|---|
| MW9-130 | W | | 2 | 092501 | | | PKI 0340 | MD Bottle provided - |
| | | | 1 | | | | | |
| MW9-175 | | | 2 | | | | | |
| | | | 1 | | | | | |
| MW9-205 | | | 2 | | | | | |
| | | | 1 | | | | | |
| MW9-235 | | | 2 | | | | | |
| ~~MW9-270~~ | | | | | | | | |
| MW9-235 | | | 1 | | | | | |
| MW7-170 | W | | 12 | 1420 | | | -07 | |
| | | | 1 | 1430 | | | | |
| Trip Blank | | | 2 | | | X | Added to COC 9/21/01 -08 | |

| Relinquished By: | Date /Time: | Received by: | Date /Time: |
|---|---|---|---|
| [signature] | 092101 0835 | [signature] | |
| Relinquished By: | Date /Time: | Received by: | Date /Time: 9/21/01 |
| Relinquished By: | Date /Time: 9/21/01 | Received in Lab by: [signature] | Date /Time: 9/21/01 0835 |

Turnaround Time: (Check)
same day _____ 72 hours _____
24 hours _____ 5 days _____
48 hours _____ normal ✓

Sample Integrity: (Check)
intact ✓ on ice ✓ 3°C

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

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# CHAIN OF CUSTODY FORM

Quote #: _____ Page 1 of 2

Client Name/Address: LAW FAX AZ

Project/PO Number: 70211-0-0150.2.2

Project Manager: JIM CHAPPELL

Sampler: PATRICK COOK

Phone Number: 437 0230

Fax Number: 437 3167

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date/Time | Preservatives | Analysis Required | Special Instructions |
|---|---|---|---|---|---|---|---|
| MW11-170 | W | VOA | 2 | 9/20/01 1255 | | 8260 As Ch, Mg, Na, Ni, SO4 | PKID 340-01 |
| | | POLY | 1 | 1255 | | | |
| MW11-200 | | VOA | 2 | 1330 | | | 02 |
| | | POLY | 1 | 1330 | | | |
| MW11-240 | | VOA | 2 | 1340 | | | |
| | | POLY | 1 | 1340 | | | 03 |
| MW10-130 | | VOA | 2 | 1500 | | | 04 |
| | | POLY | 1 | 1500 | | | 04D2 |
| MW10-170 | | VOA | 2 | 1515 | | | 05 |
| | | POLY | 1 | | | | |
| MW10-235 | | VOA | 2 | | | | |
| | | POLY | 1 | | | | |
| MW10-235 | | VOA | 2 | | | | 06 |
| | | | | | | | |

Relinquished By: _____ Date /Time: 9/21/01 0835

Received by: _____ Date /Time: 9/21/01 0835

Relinquished By: _____ Date /Time: 9/21/01

Received by: _____ Date /Time: 9/21/01

Relinquished By: _____ Date /Time: 9/21/01

Received in Lab by: _____ Date /Time: 9/21/01 0835

Turnaround Time: (Check)
same day _____ 72 hours _____
24 hours _____ 5 days _____
48 hours _____ normal ✓

Sample Integrity: (Check)
intact ✓ on ice ✓

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

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# CHAIN OF CUSTODY FORM

Quote #: _____ Page 2 of 2

| Client Name/Address: | Project/PO Number: |
|---|---|
| LAW Phoenix AZ | 702110 0150 |
| **Project Manager:** Jim Clarke | **Phone Number:** 437 0250 |
| **Sampler:** Patrick Cook | **Fax Number:** 437 3675 |

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date/Time | Preservatives | 8260 (VOCs to MRL) | 8270 (SVOCs to MRL) | Analysis Required | Special Instructions |
|---|---|---|---|---|---|---|---|---|---|
| MW9-135 | W | | 2 | 092001 | | X | X | PKT0340 | |
| | | | 1 | | | | | | |
| MW9-175 | | | 2 | | | | | | |
| | | | 1 | | | | | | |
| MW9-205 | | | 2 | | | | | | |
| | | | 1 | | | | | | |
| MW9-235 | | | 2 | | | | | | |
| ~~MW9-270~~ | | | | | | | | | |
| MW9-235 MW9-170 | ↓ | | 1 2 | 1420 | | X | X | -07 | |
| | ↓ | | 1 2 | 1420 | | | | | |
| Trip Blank | | | | | | X | Added To COC 9/21/01 | -08 | |

| Relinquished By: | Date /Time: | Received by: | Date /Time: |
|---|---|---|---|
| [signature] | 092101 0835 | | |
| Relinquished By: | Date /Time: | Received by: | Date /Time: 9/21/01 |
| Relinquished By: | Date /Time: 9/21/01 | Received in Lab by: [signature] | Date /Time: 9/21/01 0835 |

Turnaround Time: (Check)
same day _____ 72 hours _____
24 hours _____ 5 days _____
48 hours _____ normal ✓

Sample Integrity: (Check)
intact ✓ on ice ✓ temp 3

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01
Issued: 12/20/01-1/18/02
Revised: 1/18/02

# CASE NARRATIVE

| LABORATORY NUMBER | SAMPLE DESCRIPTION | SAMPLE MATRIX |
|---|---|---|
| PKL0435-01 | MW-2D | Water |
| PKL0435-02 | MW-3S | Water |
| PKL0435-03 | MW-5D | Water |
| PKL0435-04 | MW-7D | Water |
| PKL0435-05 | MW-AM-8S | Water |
| PKL0435-06 | MW-12 | Water |
| PKL0435-07 | MW-9 130 | Water |
| PKL0435-08 | MW-9 175 | Water |
| PKL0435-09 | MW-9 205 | Water |
| PKL0435-10 | MW-9 235 | Water |
| PKL0435-11 | MW-10 170 | Water |
| PKL0435-12 | MW-10 130 | Water |
| PKL0435-13 | MW-10 235 | Water |
| PKL0435-14 | MW-11 200 | Water |
| PKL0435-15 | MW-11 170 | Water |
| PKL0435-16 | MW-11 240 | Water |
| PKL0435-16RE1 | MW-11 240 | Water |
| PKL0435-17 | Trip Blank | Water |

Debbie Fuller
Project Manager

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

SAMPLE RECEIPT: Samples were received intact, on ice, and with chain of custody documentation.

HOLDING TIMES: Holding times were met.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

OBSERVATIONS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

QA/QC CRITERIA: The N2 flag on 8260 (Low) Acetone indicates that the Calibration Verification recovery was below the method control limit for this analyte. See Corrective Action Report. Per consultation with client, this is not a coumpund of interest and is not being used for compliance.

EXPLANATION OF DATA QUALIFIERS: The N1 flag on 8260 (Low) Acetone indicates that the concentration exceeds the calibration range and therefore result is semi-quantitative.

**DEL MAR ANALYTICAL , PHOENIX (AZ0426)**

Debbie Fuller
Project Manager

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2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

# CORRECTIVE ACTION REPORT

| | | | |
|---|---|---|---|
| Department: | GC/MS | Method: | 8260B |
| Date: | 01/03/2002 | Matrix: | Water |
| Batch: | P2A0401 | | |
| Samples: | PKL0395-01 – PKL0395-04, PKL0396-04, PKL0416-07 – PKL0416-11, PKL0424-01, PKL0424-02, PKL0424-04, PKL0424-06, PKL0424-08, PKL0435-08, PKL0435-11 & PKL0435-17 | | |

Identification and Definition of Problem:

Acetone recovered low (56%) and outside of the 60-140% Continuing Calibration Verification acceptance limits in the Continuing Calibration Verification Standard (CCV) / Laboratory Control Sample (LCS).

Determination of the Cause of the Problem:

A definitive cause for the low recovery could not be determined.

Corrective Action:

The CCV/LCS standard recovered within the 40-150% Laboratory Control Sample acceptance limits. Also, the Laboratory Control Sample Duplicate (LCSD) recovered at 64%, which is within the Continuing Calibration Verification and the LCS limits. The LCSD is prepared with the same spiking solution and in the same manner as the CCV/LCS. The LCSD was analyzed immediately following the CCV/LCS prior to sample analysis. In addition, the Matrix Spike and Matrix Spike Duplicate recovered within acceptance limits. Also, the Relative Percent Difference between the LCS/LCSD and MS/MSD was within acceptance limits. Therefore the data should not be significantly impacted by the low CCV recovery. The associated samples and QC have been flagged "N2" to indicate the low recovery.

Elizabeth C. Wueschner: Elizabeth C. Wueschner Date: 1/11/2002
Quality Assurance Manager

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130

Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PKL0435-01 (MW-2D - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P2A0315 | 20 | ND | 1 | 1/3/02 | 1/3/02 | |
| Benzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Bromobenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Bromochloromethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Bromodichloromethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Bromoform | EPA 8260B | P2A0315 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Bromomethane | EPA 8260B | P2A0315 | 4.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 2-Butanone (MEK) | EPA 8260B | P2A0315 | 10 | ND | 1 | 1/3/02 | 1/3/02 | |
| n-Butylbenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| sec-Butylbenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| tert-Butylbenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Carbon Disulfide | EPA 8260B | P2A0315 | 5.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Carbon tetrachloride | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Chlorobenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Chloroethane | EPA 8260B | P2A0315 | 4.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Chloroform | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Chloromethane | EPA 8260B | P2A0315 | 4.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 2-Chlorotoluene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 4-Chlorotoluene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Dibromochloromethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Dibromomethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2-Dichlorobenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,3-Dichlorobenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,4-Dichlorobenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Dichlorodifluoromethane | EPA 8260B | P2A0315 | 4.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1-Dichloroethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2-Dichloroethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1-Dichloroethene | EPA 8260B | P2A0315 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| cis-1,2-Dichloroethene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| trans-1,2-Dichloroethene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2-Dichloropropane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,3-Dichloropropane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 2,2-Dichloropropane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1-Dichloropropene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| cis-1,3-Dichloropropene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| trans-1,3-Dichloropropene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Ethylbenzene | EPA 8260B | P2A0315 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Hexachlorobutadiene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 2-Hexanone | EPA 8260B | P2A0315 | 10 | ND | 1 | 1/3/02 | 1/3/02 | |
| Iodomethane | EPA 8260B | P2A0315 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Isopropylbenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |

Debbie Fuller
Project Manager

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PKL0435-01 (MW-2D - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Methylene chloride | EPA 8260B | P2A0315 | 5.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P2A0315 | 10 | ND | 1 | 1/3/02 | 1/3/02 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P2A0315 | 5.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Naphthalene | EPA 8260B | P2A0315 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| n-Propylbenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Styrene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P2A0315 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Tetrachloroethene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Toluene | EPA 8260B | P2A0315 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1,1-Trichloroethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1,2-Trichloroethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Trichloroethene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Trichlorofluoromethane | EPA 8260B | P2A0315 | 4.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2,3-Trichloropropane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Vinyl acetate | EPA 8260B | P2A0315 | 5.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Vinyl chloride | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Xylenes, Total | EPA 8260B | P2A0315 | 3.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *104 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *110 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *106 %* | | | | |

Debbie Fuller
Project Manager

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130

Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PKL0435-02 (MW-3S - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P2A0315 | 20 | ND | 1 | 1/3/02 | 1/3/02 | |
| Benzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Bromobenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Bromochloromethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Bromodichloromethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Bromoform | EPA 8260B | P2A0315 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Bromomethane | EPA 8260B | P2A0315 | 4.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 2-Butanone (MEK) | EPA 8260B | P2A0315 | 10 | ND | 1 | 1/3/02 | 1/3/02 | |
| n-Butylbenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| sec-Butylbenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| tert-Butylbenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Carbon Disulfide | EPA 8260B | P2A0315 | 5.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Carbon tetrachloride | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Chlorobenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Chloroethane | EPA 8260B | P2A0315 | 4.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Chloroform | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Chloromethane | EPA 8260B | P2A0315 | 4.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 2-Chlorotoluene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 4-Chlorotoluene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Dibromochloromethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Dibromomethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2-Dichlorobenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,3-Dichlorobenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,4-Dichlorobenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Dichlorodifluoromethane | EPA 8260B | P2A0315 | 4.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1-Dichloroethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2-Dichloroethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1-Dichloroethene | EPA 8260B | P2A0315 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| cis-1,2-Dichloroethene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| trans-1,2-Dichloroethene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2-Dichloropropane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,3-Dichloropropane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 2,2-Dichloropropane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1-Dichloropropene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| cis-1,3-Dichloropropene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| trans-1,3-Dichloropropene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Ethylbenzene | EPA 8260B | P2A0315 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Hexachlorobutadiene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 2-Hexanone | EPA 8260B | P2A0315 | 10 | ND | 1 | 1/3/02 | 1/3/02 | |
| Iodomethane | EPA 8260B | P2A0315 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Isopropylbenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130

Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PKL0435-02 (MW-3S - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Methylene chloride | EPA 8260B | P2A0315 | 5.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P2A0315 | 10 | ND | 1 | 1/3/02 | 1/3/02 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P2A0315 | 5.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Naphthalene | EPA 8260B | P2A0315 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| n-Propylbenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Styrene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P2A0315 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Tetrachloroethene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Toluene | EPA 8260B | P2A0315 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1,1-Trichloroethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1,2-Trichloroethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Trichloroethene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Trichlorofluoromethane | EPA 8260B | P2A0315 | 4.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2,3-Trichloropropane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Vinyl acetate | EPA 8260B | P2A0315 | 5.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Vinyl chloride | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Xylenes, Total | EPA 8260B | P2A0315 | 3.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *103 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *110 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *109 %* | | | | |

Debbie Fuller
Project Manager

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130

Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PKL0435-03 (MW-5D - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P2A0315 | 20 | ND | 1 | 1/3/02 | 1/3/02 | |
| Benzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Bromobenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Bromochloromethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Bromodichloromethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Bromoform | EPA 8260B | P2A0315 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Bromomethane | EPA 8260B | P2A0315 | 4.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 2-Butanone (MEK) | EPA 8260B | P2A0315 | 10 | ND | 1 | 1/3/02 | 1/3/02 | |
| n-Butylbenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| sec-Butylbenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| tert-Butylbenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Carbon Disulfide | EPA 8260B | P2A0315 | 5.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Carbon tetrachloride | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Chlorobenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Chloroethane | EPA 8260B | P2A0315 | 4.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Chloroform | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Chloromethane | EPA 8260B | P2A0315 | 4.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 2-Chlorotoluene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 4-Chlorotoluene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Dibromochloromethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Dibromomethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2-Dichlorobenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,3-Dichlorobenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,4-Dichlorobenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Dichlorodifluoromethane | EPA 8260B | P2A0315 | 4.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1-Dichloroethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2-Dichloroethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1-Dichloroethene | EPA 8260B | P2A0315 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| cis-1,2-Dichloroethene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| trans-1,2-Dichloroethene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2-Dichloropropane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,3-Dichloropropane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 2,2-Dichloropropane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1-Dichloropropene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| cis-1,3-Dichloropropene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| trans-1,3-Dichloropropene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Ethylbenzene | EPA 8260B | P2A0315 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Hexachlorobutadiene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 2-Hexanone | EPA 8260B | P2A0315 | 10 | ND | 1 | 1/3/02 | 1/3/02 | |
| Iodomethane | EPA 8260B | P2A0315 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Isopropylbenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |

Debbie Fuller
Project Manager

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PKL0435-03 (MW-5D - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Methylene chloride | EPA 8260B | P2A0315 | 5.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P2A0315 | 10 | ND | 1 | 1/3/02 | 1/3/02 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P2A0315 | 5.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Naphthalene | EPA 8260B | P2A0315 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| n-Propylbenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Styrene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P2A0315 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| **Tetrachloroethene** | EPA 8260B | P2A0315 | 1.0 | **5.4** | 1 | 1/3/02 | 1/3/02 | |
| Toluene | EPA 8260B | P2A0315 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1,1-Trichloroethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1,2-Trichloroethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Trichloroethene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Trichlorofluoromethane | EPA 8260B | P2A0315 | 4.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2,3-Trichloropropane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Vinyl acetate | EPA 8260B | P2A0315 | 5.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Vinyl chloride | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Xylenes, Total | EPA 8260B | P2A0315 | 3.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *104 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *110 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *106 %* | | | | |

Debbie Fuller
Project Manager

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PKL0435-04 (MW-7D - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P2A0315 | 20 | ND | 1 | 1/3/02 | 1/3/02 | |
| Benzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Bromobenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Bromochloromethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Bromodichloromethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Bromoform | EPA 8260B | P2A0315 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Bromomethane | EPA 8260B | P2A0315 | 4.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 2-Butanone (MEK) | EPA 8260B | P2A0315 | 10 | ND | 1 | 1/3/02 | 1/3/02 | |
| n-Butylbenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| sec-Butylbenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| tert-Butylbenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Carbon Disulfide | EPA 8260B | P2A0315 | 5.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Carbon tetrachloride | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Chlorobenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Chloroethane | EPA 8260B | P2A0315 | 4.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Chloroform | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Chloromethane | EPA 8260B | P2A0315 | 4.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 2-Chlorotoluene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 4-Chlorotoluene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Dibromochloromethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Dibromomethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2-Dichlorobenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,3-Dichlorobenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,4-Dichlorobenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Dichlorodifluoromethane | EPA 8260B | P2A0315 | 4.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1-Dichloroethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2-Dichloroethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1-Dichloroethene | EPA 8260B | P2A0315 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| **cis-1,2-Dichloroethene** | EPA 8260B | P2A0315 | 1.0 | **2.0** | 1 | 1/3/02 | 1/3/02 | |
| trans-1,2-Dichloroethene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2-Dichloropropane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,3-Dichloropropane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 2,2-Dichloropropane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1-Dichloropropene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| cis-1,3-Dichloropropene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| trans-1,3-Dichloropropene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Ethylbenzene | EPA 8260B | P2A0315 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Hexachlorobutadiene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 2-Hexanone | EPA 8260B | P2A0315 | 10 | ND | 1 | 1/3/02 | 1/3/02 | |
| Iodomethane | EPA 8260B | P2A0315 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Isopropylbenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PKL0435-04 (MW-7D - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Methylene chloride | EPA 8260B | P2A0315 | 5.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P2A0315 | 10 | ND | 1 | 1/3/02 | 1/3/02 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P2A0315 | 5.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Naphthalene | EPA 8260B | P2A0315 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| n-Propylbenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Styrene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P2A0315 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| **Tetrachloroethene** | EPA 8260B | P2A0315 | 1.0 | **31** | 1 | 1/3/02 | 1/3/02 | |
| Toluene | EPA 8260B | P2A0315 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1,1-Trichloroethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1,2-Trichloroethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Trichloroethene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Trichlorofluoromethane | EPA 8260B | P2A0315 | 4.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2,3-Trichloropropane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Vinyl acetate | EPA 8260B | P2A0315 | 5.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Vinyl chloride | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Xylenes, Total | EPA 8260B | P2A0315 | 3.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *108 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *111 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *105 %* | | | | |



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PKL0435-05 (MW-AM-8S - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P2A0315 | 20 | ND | 1 | 1/3/02 | 1/3/02 | |
| Benzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Bromobenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Bromochloromethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Bromodichloromethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Bromoform | EPA 8260B | P2A0315 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Bromomethane | EPA 8260B | P2A0315 | 4.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 2-Butanone (MEK) | EPA 8260B | P2A0315 | 10 | ND | 1 | 1/3/02 | 1/3/02 | |
| n-Butylbenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| sec-Butylbenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| tert-Butylbenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Carbon Disulfide | EPA 8260B | P2A0315 | 5.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Carbon tetrachloride | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Chlorobenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Chloroethane | EPA 8260B | P2A0315 | 4.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Chloroform | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Chloromethane | EPA 8260B | P2A0315 | 4.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 2-Chlorotoluene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 4-Chlorotoluene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Dibromochloromethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Dibromomethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2-Dichlorobenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,3-Dichlorobenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,4-Dichlorobenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Dichlorodifluoromethane | EPA 8260B | P2A0315 | 4.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1-Dichloroethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2-Dichloroethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1-Dichloroethene | EPA 8260B | P2A0315 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| **cis-1,2-Dichloroethene** | EPA 8260B | P2A0315 | 1.0 | **4.5** | 1 | 1/3/02 | 1/3/02 | |
| trans-1,2-Dichloroethene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2-Dichloropropane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,3-Dichloropropane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 2,2-Dichloropropane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1-Dichloropropene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| cis-1,3-Dichloropropene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| trans-1,3-Dichloropropene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Ethylbenzene | EPA 8260B | P2A0315 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Hexachlorobutadiene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 2-Hexanone | EPA 8260B | P2A0315 | 10 | ND | 1 | 1/3/02 | 1/3/02 | |
| Iodomethane | EPA 8260B | P2A0315 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Isopropylbenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |

Debbie Fuller
Project Manager

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PKL0435-05 (MW-AM-8S - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Methylene chloride | EPA 8260B | P2A0315 | 5.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P2A0315 | 10 | ND | 1 | 1/3/02 | 1/3/02 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P2A0315 | 5.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Naphthalene | EPA 8260B | P2A0315 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| n-Propylbenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Styrene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P2A0315 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| **Tetrachloroethene** | EPA 8260B | P2A0315 | 1.0 | **40** | 1 | 1/3/02 | 1/3/02 | |
| Toluene | EPA 8260B | P2A0315 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1,1-Trichloroethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1,2-Trichloroethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| **Trichloroethene** | EPA 8260B | P2A0315 | 1.0 | **1.5** | 1 | 1/3/02 | 1/3/02 | |
| Trichlorofluoromethane | EPA 8260B | P2A0315 | 4.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2,3-Trichloropropane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Vinyl acetate | EPA 8260B | P2A0315 | 5.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Vinyl chloride | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Xylenes, Total | EPA 8260B | P2A0315 | 3.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *107 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *110 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *104 %* | | | | |

Debbie Fuller
Project Manager

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PKL0435-06 (MW-12 - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P2A0315 | 20 | ND | 1 | 1/3/02 | 1/3/02 | |
| Benzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Bromobenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Bromochloromethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Bromodichloromethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Bromoform | EPA 8260B | P2A0315 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Bromomethane | EPA 8260B | P2A0315 | 4.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 2-Butanone (MEK) | EPA 8260B | P2A0315 | 10 | ND | 1 | 1/3/02 | 1/3/02 | |
| n-Butylbenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| sec-Butylbenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| tert-Butylbenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Carbon Disulfide | EPA 8260B | P2A0315 | 5.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Carbon tetrachloride | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Chlorobenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Chloroethane | EPA 8260B | P2A0315 | 4.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Chloroform | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Chloromethane | EPA 8260B | P2A0315 | 4.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 2-Chlorotoluene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 4-Chlorotoluene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Dibromochloromethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Dibromomethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2-Dichlorobenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,3-Dichlorobenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,4-Dichlorobenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Dichlorodifluoromethane | EPA 8260B | P2A0315 | 4.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1-Dichloroethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2-Dichloroethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1-Dichloroethene | EPA 8260B | P2A0315 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| **cis-1,2-Dichloroethene** | EPA 8260B | P2A0315 | 1.0 | **1.8** | 1 | 1/3/02 | 1/3/02 | |
| trans-1,2-Dichloroethene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2-Dichloropropane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,3-Dichloropropane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 2,2-Dichloropropane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1-Dichloropropene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| cis-1,3-Dichloropropene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| trans-1,3-Dichloropropene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Ethylbenzene | EPA 8260B | P2A0315 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Hexachlorobutadiene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 2-Hexanone | EPA 8260B | P2A0315 | 10 | ND | 1 | 1/3/02 | 1/3/02 | |
| Iodomethane | EPA 8260B | P2A0315 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Isopropylbenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |

Debbie Fuller
Project Manager

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PKL0435-06 (MW-12 - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Methylene chloride | EPA 8260B | P2A0315 | 5.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P2A0315 | 10 | ND | 1 | 1/3/02 | 1/3/02 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P2A0315 | 5.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Naphthalene | EPA 8260B | P2A0315 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| n-Propylbenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Styrene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P2A0315 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| **Tetrachloroethene** | EPA 8260B | P2A0315 | 1.0 | **32** | 1 | 1/3/02 | 1/3/02 | |
| Toluene | EPA 8260B | P2A0315 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1,1-Trichloroethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1,2-Trichloroethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Trichloroethene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Trichlorofluoromethane | EPA 8260B | P2A0315 | 4.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2,3-Trichloropropane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Vinyl acetate | EPA 8260B | P2A0315 | 5.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Vinyl chloride | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Xylenes, Total | EPA 8260B | P2A0315 | 3.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *102 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *111 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *101 %* | | | | |

Debbie Fuller
Project Manager

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130

Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PKL0435-07 (MW-9 130 - Water)** | | | | | | | | |
| **Acetone** | EPA 8260B | P2A0417 | 20 | **61** | 1 | 1/4/02 | 1/4/02 | |
| Benzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Bromobenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Bromochloromethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Bromodichloromethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Bromoform | EPA 8260B | P2A0417 | 2.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Bromomethane | EPA 8260B | P2A0417 | 4.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 2-Butanone (MEK) | EPA 8260B | P2A0417 | 10 | ND | 1 | 1/4/02 | 1/4/02 | |
| n-Butylbenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| sec-Butylbenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| tert-Butylbenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Carbon Disulfide | EPA 8260B | P2A0417 | 5.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Carbon tetrachloride | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Chlorobenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Chloroethane | EPA 8260B | P2A0417 | 4.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Chloroform | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Chloromethane | EPA 8260B | P2A0417 | 4.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 2-Chlorotoluene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 4-Chlorotoluene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Dibromochloromethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Dibromomethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2-Dichlorobenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,3-Dichlorobenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,4-Dichlorobenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Dichlorodifluoromethane | EPA 8260B | P2A0417 | 4.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,1-Dichloroethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2-Dichloroethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,1-Dichloroethene | EPA 8260B | P2A0417 | 2.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| cis-1,2-Dichloroethene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| trans-1,2-Dichloroethene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2-Dichloropropane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,3-Dichloropropane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 2,2-Dichloropropane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,1-Dichloropropene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| cis-1,3-Dichloropropene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| trans-1,3-Dichloropropene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Ethylbenzene | EPA 8260B | P2A0417 | 2.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Hexachlorobutadiene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 2-Hexanone | EPA 8260B | P2A0417 | 10 | ND | 1 | 1/4/02 | 1/4/02 | |
| Iodomethane | EPA 8260B | P2A0417 | 2.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Isopropylbenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PKL0435-07 (MW-9 130 - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Methylene chloride | EPA 8260B | P2A0417 | 5.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P2A0417 | 10 | ND | 1 | 1/4/02 | 1/4/02 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P2A0417 | 5.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Naphthalene | EPA 8260B | P2A0417 | 2.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| n-Propylbenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Styrene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P2A0417 | 2.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Tetrachloroethene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Toluene | EPA 8260B | P2A0417 | 2.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,1,1-Trichloroethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,1,2-Trichloroethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Trichloroethene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Trichlorofluoromethane | EPA 8260B | P2A0417 | 4.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2,3-Trichloropropane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Vinyl acetate | EPA 8260B | P2A0417 | 5.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Vinyl chloride | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Xylenes, Total | EPA 8260B | P2A0417 | 3.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *99 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *111 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *104 %* | | | | |

Debbie Fuller
Project Manager

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PKL0435-08 (MW-9 175 - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P2A0401 | 20 | ND | 1 | 1/3/02 | 1/4/02 | N2 |
| Benzene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| Bromobenzene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| Bromochloromethane | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| Bromodichloromethane | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| Bromoform | EPA 8260B | P2A0401 | 2.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| Bromomethane | EPA 8260B | P2A0401 | 4.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 2-Butanone (MEK) | EPA 8260B | P2A0401 | 10 | ND | 1 | 1/3/02 | 1/4/02 | |
| n-Butylbenzene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| sec-Butylbenzene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| tert-Butylbenzene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| Carbon Disulfide | EPA 8260B | P2A0401 | 5.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| Carbon tetrachloride | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| Chlorobenzene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| Chloroethane | EPA 8260B | P2A0401 | 4.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| Chloroform | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| Chloromethane | EPA 8260B | P2A0401 | 4.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 2-Chlorotoluene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 4-Chlorotoluene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| Dibromochloromethane | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| Dibromomethane | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 1,2-Dichlorobenzene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 1,3-Dichlorobenzene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 1,4-Dichlorobenzene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| Dichlorodifluoromethane | EPA 8260B | P2A0401 | 4.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 1,1-Dichloroethane | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 1,2-Dichloroethane | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 1,1-Dichloroethene | EPA 8260B | P2A0401 | 2.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| **cis-1,2-Dichloroethene** | EPA 8260B | P2A0401 | 1.0 | **2.9** | 1 | 1/3/02 | 1/4/02 | |
| trans-1,2-Dichloroethene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 1,2-Dichloropropane | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 1,3-Dichloropropane | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 2,2-Dichloropropane | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 1,1-Dichloropropene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| cis-1,3-Dichloropropene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| trans-1,3-Dichloropropene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| Ethylbenzene | EPA 8260B | P2A0401 | 2.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| Hexachlorobutadiene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 2-Hexanone | EPA 8260B | P2A0401 | 10 | ND | 1 | 1/3/02 | 1/4/02 | |
| Iodomethane | EPA 8260B | P2A0401 | 2.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| Isopropylbenzene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |



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Attention: Jim Clarke

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Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PKL0435-08 (MW-9 175 - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| Methylene chloride | EPA 8260B | P2A0401 | 5.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P2A0401 | 10 | ND | 1 | 1/3/02 | 1/4/02 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P2A0401 | 5.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| Naphthalene | EPA 8260B | P2A0401 | 2.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| n-Propylbenzene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| Styrene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P2A0401 | 2.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| **Tetrachloroethene** | EPA 8260B | P2A0401 | 1.0 | **1.5** | 1 | 1/3/02 | 1/4/02 | |
| Toluene | EPA 8260B | P2A0401 | 2.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 1,1,1-Trichloroethane | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 1,1,2-Trichloroethane | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| Trichloroethene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| Trichlorofluoromethane | EPA 8260B | P2A0401 | 4.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 1,2,3-Trichloropropane | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| Vinyl acetate | EPA 8260B | P2A0401 | 5.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| Vinyl chloride | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| Xylenes, Total | EPA 8260B | P2A0401 | 3.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *101 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *110 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *102 %* | | | | |

Debbie Fuller
Project Manager

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Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130

Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PKL0435-09 (MW-9 205 - Water)** | | | | | | | | |
| **Acetone** | EPA 8260B | P2A0417 | 20 | **500** | 1 | 1/4/02 | 1/4/02 | N1 |
| Benzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Bromobenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Bromochloromethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Bromodichloromethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Bromoform | EPA 8260B | P2A0417 | 2.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Bromomethane | EPA 8260B | P2A0417 | 4.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 2-Butanone (MEK) | EPA 8260B | P2A0417 | 10 | ND | 1 | 1/4/02 | 1/4/02 | |
| n-Butylbenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| sec-Butylbenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| tert-Butylbenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Carbon Disulfide | EPA 8260B | P2A0417 | 5.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Carbon tetrachloride | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Chlorobenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Chloroethane | EPA 8260B | P2A0417 | 4.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Chloroform | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Chloromethane | EPA 8260B | P2A0417 | 4.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 2-Chlorotoluene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 4-Chlorotoluene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Dibromochloromethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Dibromomethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2-Dichlorobenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,3-Dichlorobenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,4-Dichlorobenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Dichlorodifluoromethane | EPA 8260B | P2A0417 | 4.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,1-Dichloroethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2-Dichloroethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,1-Dichloroethene | EPA 8260B | P2A0417 | 2.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| cis-1,2-Dichloroethene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| trans-1,2-Dichloroethene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2-Dichloropropane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,3-Dichloropropane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 2,2-Dichloropropane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,1-Dichloropropene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| cis-1,3-Dichloropropene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| trans-1,3-Dichloropropene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Ethylbenzene | EPA 8260B | P2A0417 | 2.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Hexachlorobutadiene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 2-Hexanone | EPA 8260B | P2A0417 | 10 | ND | 1 | 1/4/02 | 1/4/02 | |
| Iodomethane | EPA 8260B | P2A0417 | 2.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Isopropylbenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |

Debbie Fuller
Project Manager

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130

Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PKL0435-09 (MW-9 205 - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Methylene chloride | EPA 8260B | P2A0417 | 5.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P2A0417 | 10 | ND | 1 | 1/4/02 | 1/4/02 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P2A0417 | 5.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Naphthalene | EPA 8260B | P2A0417 | 2.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| n-Propylbenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Styrene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P2A0417 | 2.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Tetrachloroethene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Toluene | EPA 8260B | P2A0417 | 2.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,1,1-Trichloroethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,1,2-Trichloroethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Trichloroethene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Trichlorofluoromethane | EPA 8260B | P2A0417 | 4.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2,3-Trichloropropane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Vinyl acetate | EPA 8260B | P2A0417 | 5.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Vinyl chloride | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Xylenes, Total | EPA 8260B | P2A0417 | 3.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *99 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *111 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *103 %* | | | | |

Debbie Fuller
Project Manager

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PKL0435-10 (MW-9 235 - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P2A0417 | 20 | ND | 1 | 1/4/02 | 1/4/02 | |
| Benzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Bromobenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Bromochloromethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Bromodichloromethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Bromoform | EPA 8260B | P2A0417 | 2.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Bromomethane | EPA 8260B | P2A0417 | 4.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 2-Butanone (MEK) | EPA 8260B | P2A0417 | 10 | ND | 1 | 1/4/02 | 1/4/02 | |
| n-Butylbenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| sec-Butylbenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| tert-Butylbenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Carbon Disulfide | EPA 8260B | P2A0417 | 5.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Carbon tetrachloride | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Chlorobenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Chloroethane | EPA 8260B | P2A0417 | 4.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Chloroform | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Chloromethane | EPA 8260B | P2A0417 | 4.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 2-Chlorotoluene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 4-Chlorotoluene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Dibromochloromethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Dibromomethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2-Dichlorobenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,3-Dichlorobenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,4-Dichlorobenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Dichlorodifluoromethane | EPA 8260B | P2A0417 | 4.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,1-Dichloroethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2-Dichloroethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,1-Dichloroethene | EPA 8260B | P2A0417 | 2.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| cis-1,2-Dichloroethene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| trans-1,2-Dichloroethene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2-Dichloropropane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,3-Dichloropropane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 2,2-Dichloropropane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,1-Dichloropropene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| cis-1,3-Dichloropropene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| trans-1,3-Dichloropropene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Ethylbenzene | EPA 8260B | P2A0417 | 2.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Hexachlorobutadiene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 2-Hexanone | EPA 8260B | P2A0417 | 10 | ND | 1 | 1/4/02 | 1/4/02 | |
| Iodomethane | EPA 8260B | P2A0417 | 2.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Isopropylbenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PKL0435-10 (MW-9 235 - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Methylene chloride | EPA 8260B | P2A0417 | 5.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P2A0417 | 10 | ND | 1 | 1/4/02 | 1/4/02 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P2A0417 | 5.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Naphthalene | EPA 8260B | P2A0417 | 2.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| n-Propylbenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Styrene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P2A0417 | 2.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| **Tetrachloroethene** | EPA 8260B | P2A0417 | 1.0 | **1.0** | 1 | 1/4/02 | 1/4/02 | |
| Toluene | EPA 8260B | P2A0417 | 2.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,1,1-Trichloroethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,1,2-Trichloroethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Trichloroethene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Trichlorofluoromethane | EPA 8260B | P2A0417 | 4.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2,3-Trichloropropane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Vinyl acetate | EPA 8260B | P2A0417 | 5.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Vinyl chloride | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Xylenes, Total | EPA 8260B | P2A0417 | 3.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *100 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *111 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *103 %* | | | | |

Debbie Fuller
Project Manager

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PKL0435-11 (MW-10 170 - Water)** | | | | | | | | |
| **Acetone** | EPA 8260B | P2A0401 | 20 | **8300** | 1 | 1/3/02 | 1/4/02 | N2,N1 |
| Benzene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| Bromobenzene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| Bromochloromethane | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| Bromodichloromethane | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| Bromoform | EPA 8260B | P2A0401 | 2.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| Bromomethane | EPA 8260B | P2A0401 | 4.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| **2-Butanone (MEK)** | EPA 8260B | P2A0401 | 10 | **19** | 1 | 1/3/02 | 1/4/02 | |
| n-Butylbenzene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| sec-Butylbenzene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| tert-Butylbenzene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| Carbon Disulfide | EPA 8260B | P2A0401 | 5.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| Carbon tetrachloride | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| Chlorobenzene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| Chloroethane | EPA 8260B | P2A0401 | 4.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| Chloroform | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| Chloromethane | EPA 8260B | P2A0401 | 4.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 2-Chlorotoluene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 4-Chlorotoluene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| Dibromochloromethane | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| Dibromomethane | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 1,2-Dichlorobenzene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 1,3-Dichlorobenzene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 1,4-Dichlorobenzene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| Dichlorodifluoromethane | EPA 8260B | P2A0401 | 4.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 1,1-Dichloroethane | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 1,2-Dichloroethane | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 1,1-Dichloroethene | EPA 8260B | P2A0401 | 2.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| **cis-1,2-Dichloroethene** | EPA 8260B | P2A0401 | 1.0 | **4.2** | 1 | 1/3/02 | 1/4/02 | |
| trans-1,2-Dichloroethene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 1,2-Dichloropropane | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 1,3-Dichloropropane | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 2,2-Dichloropropane | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 1,1-Dichloropropene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| cis-1,3-Dichloropropene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| trans-1,3-Dichloropropene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| Ethylbenzene | EPA 8260B | P2A0401 | 2.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| Hexachlorobutadiene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 2-Hexanone | EPA 8260B | P2A0401 | 10 | ND | 1 | 1/3/02 | 1/4/02 | |
| Iodomethane | EPA 8260B | P2A0401 | 2.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| Isopropylbenzene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |

Debbie Fuller
Project Manager

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130

Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PKL0435-11 (MW-10 170 - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| Methylene chloride | EPA 8260B | P2A0401 | 5.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P2A0401 | 10 | ND | 1 | 1/3/02 | 1/4/02 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P2A0401 | 5.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| Naphthalene | EPA 8260B | P2A0401 | 2.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| n-Propylbenzene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| Styrene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P2A0401 | 2.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| **Tetrachloroethene** | EPA 8260B | P2A0401 | 1.0 | **3.4** | 1 | 1/3/02 | 1/4/02 | |
| Toluene | EPA 8260B | P2A0401 | 2.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 1,1,1-Trichloroethane | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 1,1,2-Trichloroethane | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| Trichloroethene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| Trichlorofluoromethane | EPA 8260B | P2A0401 | 4.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 1,2,3-Trichloropropane | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| Vinyl acetate | EPA 8260B | P2A0401 | 5.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| Vinyl chloride | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| Xylenes, Total | EPA 8260B | P2A0401 | 3.0 | ND | 1 | 1/3/02 | 1/4/02 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *101 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *109 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *102 %* | | | | |

Debbie Fuller
Project Manager

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PKL0435-12 (MW-10 130 - Water)** | | | | | | | | |
| **Acetone** | EPA 8260B | P2A0417 | 20 | **5100** | 1 | 1/4/02 | 1/4/02 | N1 |
| Benzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Bromobenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Bromochloromethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Bromodichloromethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Bromoform | EPA 8260B | P2A0417 | 2.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Bromomethane | EPA 8260B | P2A0417 | 4.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| **2-Butanone (MEK)** | EPA 8260B | P2A0417 | 10 | **54** | 1 | 1/4/02 | 1/4/02 | |
| n-Butylbenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| sec-Butylbenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| tert-Butylbenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Carbon Disulfide | EPA 8260B | P2A0417 | 5.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Carbon tetrachloride | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Chlorobenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Chloroethane | EPA 8260B | P2A0417 | 4.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Chloroform | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Chloromethane | EPA 8260B | P2A0417 | 4.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 2-Chlorotoluene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 4-Chlorotoluene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Dibromochloromethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Dibromomethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2-Dichlorobenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,3-Dichlorobenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,4-Dichlorobenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Dichlorodifluoromethane | EPA 8260B | P2A0417 | 4.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,1-Dichloroethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2-Dichloroethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,1-Dichloroethene | EPA 8260B | P2A0417 | 2.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| **cis-1,2-Dichloroethene** | EPA 8260B | P2A0417 | 1.0 | **1.1** | 1 | 1/4/02 | 1/4/02 | |
| trans-1,2-Dichloroethene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2-Dichloropropane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,3-Dichloropropane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 2,2-Dichloropropane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,1-Dichloropropene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| cis-1,3-Dichloropropene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| trans-1,3-Dichloropropene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Ethylbenzene | EPA 8260B | P2A0417 | 2.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Hexachlorobutadiene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 2-Hexanone | EPA 8260B | P2A0417 | 10 | ND | 1 | 1/4/02 | 1/4/02 | |
| Iodomethane | EPA 8260B | P2A0417 | 2.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Isopropylbenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |



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Law Engineering
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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PKL0435-12 (MW-10 130 - Water)** | | | | | | | | |
| **p-Isopropyltoluene** | EPA 8260B | P2A0417 | 1.0 | **1.1** | 1 | 1/4/02 | 1/4/02 | |
| Methylene chloride | EPA 8260B | P2A0417 | 5.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P2A0417 | 10 | ND | 1 | 1/4/02 | 1/4/02 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P2A0417 | 5.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Naphthalene | EPA 8260B | P2A0417 | 2.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| n-Propylbenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Styrene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P2A0417 | 2.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Tetrachloroethene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Toluene | EPA 8260B | P2A0417 | 2.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,1,1-Trichloroethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,1,2-Trichloroethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Trichloroethene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Trichlorofluoromethane | EPA 8260B | P2A0417 | 4.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2,3-Trichloropropane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Vinyl acetate | EPA 8260B | P2A0417 | 5.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Vinyl chloride | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Xylenes, Total | EPA 8260B | P2A0417 | 3.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *100 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *110 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *104 %* | | | | |

Debbie Fuller
Project Manager

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130

Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PKL0435-13 (MW-10 235 - Water)** | | | | | | | | |
| **Acetone** | EPA 8260B | P2A0417 | 20 | **770** | 1 | 1/4/02 | 1/4/02 | N1 |
| Benzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Bromobenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Bromochloromethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Bromodichloromethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Bromoform | EPA 8260B | P2A0417 | 2.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Bromomethane | EPA 8260B | P2A0417 | 4.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 2-Butanone (MEK) | EPA 8260B | P2A0417 | 10 | ND | 1 | 1/4/02 | 1/4/02 | |
| n-Butylbenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| sec-Butylbenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| tert-Butylbenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Carbon Disulfide | EPA 8260B | P2A0417 | 5.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Carbon tetrachloride | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Chlorobenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Chloroethane | EPA 8260B | P2A0417 | 4.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Chloroform | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Chloromethane | EPA 8260B | P2A0417 | 4.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 2-Chlorotoluene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 4-Chlorotoluene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Dibromochloromethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Dibromomethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2-Dichlorobenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,3-Dichlorobenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,4-Dichlorobenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Dichlorodifluoromethane | EPA 8260B | P2A0417 | 4.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,1-Dichloroethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2-Dichloroethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,1-Dichloroethene | EPA 8260B | P2A0417 | 2.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| cis-1,2-Dichloroethene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| trans-1,2-Dichloroethene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2-Dichloropropane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,3-Dichloropropane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 2,2-Dichloropropane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,1-Dichloropropene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| cis-1,3-Dichloropropene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| trans-1,3-Dichloropropene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Ethylbenzene | EPA 8260B | P2A0417 | 2.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Hexachlorobutadiene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 2-Hexanone | EPA 8260B | P2A0417 | 10 | ND | 1 | 1/4/02 | 1/4/02 | |
| Iodomethane | EPA 8260B | P2A0417 | 2.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Isopropylbenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |

Debbie Fuller
Project Manager

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PKL0435-13 (MW-10 235 - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Methylene chloride | EPA 8260B | P2A0417 | 5.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P2A0417 | 10 | ND | 1 | 1/4/02 | 1/4/02 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P2A0417 | 5.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Naphthalene | EPA 8260B | P2A0417 | 2.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| n-Propylbenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Styrene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P2A0417 | 2.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Tetrachloroethene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Toluene | EPA 8260B | P2A0417 | 2.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,1,1-Trichloroethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,1,2-Trichloroethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Trichloroethene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Trichlorofluoromethane | EPA 8260B | P2A0417 | 4.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2,3-Trichloropropane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Vinyl acetate | EPA 8260B | P2A0417 | 5.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Vinyl chloride | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Xylenes, Total | EPA 8260B | P2A0417 | 3.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *100 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *110 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *104 %* | | | | |

Debbie Fuller
Project Manager

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PKL0435-14 (MW-11 200 - Water)** | | | | | | | | |
| **Acetone** | EPA 8260B | P2A0417 | 20 | **860** | 1 | 1/4/02 | 1/4/02 | N1 |
| Benzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Bromobenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Bromochloromethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Bromodichloromethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Bromoform | EPA 8260B | P2A0417 | 2.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Bromomethane | EPA 8260B | P2A0417 | 4.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 2-Butanone (MEK) | EPA 8260B | P2A0417 | 10 | ND | 1 | 1/4/02 | 1/4/02 | |
| n-Butylbenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| sec-Butylbenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| tert-Butylbenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Carbon Disulfide | EPA 8260B | P2A0417 | 5.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Carbon tetrachloride | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Chlorobenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Chloroethane | EPA 8260B | P2A0417 | 4.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Chloroform | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Chloromethane | EPA 8260B | P2A0417 | 4.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 2-Chlorotoluene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 4-Chlorotoluene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Dibromochloromethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Dibromomethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2-Dichlorobenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,3-Dichlorobenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,4-Dichlorobenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Dichlorodifluoromethane | EPA 8260B | P2A0417 | 4.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,1-Dichloroethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2-Dichloroethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,1-Dichloroethene | EPA 8260B | P2A0417 | 2.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| **cis-1,2-Dichloroethene** | EPA 8260B | P2A0417 | 1.0 | **2.9** | 1 | 1/4/02 | 1/4/02 | |
| trans-1,2-Dichloroethene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2-Dichloropropane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,3-Dichloropropane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 2,2-Dichloropropane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,1-Dichloropropene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| cis-1,3-Dichloropropene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| trans-1,3-Dichloropropene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Ethylbenzene | EPA 8260B | P2A0417 | 2.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Hexachlorobutadiene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 2-Hexanone | EPA 8260B | P2A0417 | 10 | ND | 1 | 1/4/02 | 1/4/02 | |
| Iodomethane | EPA 8260B | P2A0417 | 2.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Isopropylbenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |

Debbie Fuller
Project Manager

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Law Engineering
4634 S. 36th Place
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Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130

Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PKL0435-14 (MW-11 200 - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Methylene chloride | EPA 8260B | P2A0417 | 5.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P2A0417 | 10 | ND | 1 | 1/4/02 | 1/4/02 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P2A0417 | 5.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Naphthalene | EPA 8260B | P2A0417 | 2.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| n-Propylbenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Styrene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P2A0417 | 2.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| **Tetrachloroethene** | EPA 8260B | P2A0417 | 1.0 | **2.0** | 1 | 1/4/02 | 1/4/02 | |
| Toluene | EPA 8260B | P2A0417 | 2.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,1,1-Trichloroethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,1,2-Trichloroethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Trichloroethene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Trichlorofluoromethane | EPA 8260B | P2A0417 | 4.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2,3-Trichloropropane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Vinyl acetate | EPA 8260B | P2A0417 | 5.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Vinyl chloride | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Xylenes, Total | EPA 8260B | P2A0417 | 3.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *100 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *110 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *105 %* | | | | |

Debbie Fuller
Project Manager

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PKL0435-15 (MW-11 170 - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P2A0315 | 20 | ND | 1 | 1/3/02 | 1/3/02 | |
| Benzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Bromobenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Bromochloromethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Bromodichloromethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Bromoform | EPA 8260B | P2A0315 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Bromomethane | EPA 8260B | P2A0315 | 4.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 2-Butanone (MEK) | EPA 8260B | P2A0315 | 10 | ND | 1 | 1/3/02 | 1/3/02 | |
| n-Butylbenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| sec-Butylbenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| tert-Butylbenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Carbon Disulfide | EPA 8260B | P2A0315 | 5.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Carbon tetrachloride | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Chlorobenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Chloroethane | EPA 8260B | P2A0315 | 4.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Chloroform | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Chloromethane | EPA 8260B | P2A0315 | 4.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 2-Chlorotoluene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 4-Chlorotoluene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Dibromochloromethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Dibromomethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2-Dichlorobenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,3-Dichlorobenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,4-Dichlorobenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Dichlorodifluoromethane | EPA 8260B | P2A0315 | 4.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1-Dichloroethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2-Dichloroethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1-Dichloroethene | EPA 8260B | P2A0315 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| **cis-1,2-Dichloroethene** | EPA 8260B | P2A0315 | 1.0 | **1.6** | 1 | 1/3/02 | 1/3/02 | |
| trans-1,2-Dichloroethene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2-Dichloropropane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,3-Dichloropropane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 2,2-Dichloropropane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1-Dichloropropene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| cis-1,3-Dichloropropene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| trans-1,3-Dichloropropene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Ethylbenzene | EPA 8260B | P2A0315 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Hexachlorobutadiene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 2-Hexanone | EPA 8260B | P2A0315 | 10 | ND | 1 | 1/3/02 | 1/3/02 | |
| Iodomethane | EPA 8260B | P2A0315 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Isopropylbenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |

Debbie Fuller
Project Manager

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PKL0435-15 (MW-11 170 - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Methylene chloride | EPA 8260B | P2A0315 | 5.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P2A0315 | 10 | ND | 1 | 1/3/02 | 1/3/02 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P2A0315 | 5.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Naphthalene | EPA 8260B | P2A0315 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| n-Propylbenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Styrene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P2A0315 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Tetrachloroethene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Toluene | EPA 8260B | P2A0315 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1,1-Trichloroethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1,2-Trichloroethane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Trichloroethene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Trichlorofluoromethane | EPA 8260B | P2A0315 | 4.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2,3-Trichloropropane | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Vinyl acetate | EPA 8260B | P2A0315 | 5.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Vinyl chloride | EPA 8260B | P2A0315 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Xylenes, Total | EPA 8260B | P2A0315 | 3.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *100 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *111 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *100 %* | | | | |

Debbie Fuller
Project Manager

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PKL0435-16 (MW-11 240 - Water)** | | | | | | | | |
| **Acetone** | EPA 8260B | P2A0417 | 20 | **750** | 1 | 1/4/02 | 1/4/02 | N1 |
| Benzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Bromobenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Bromochloromethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Bromodichloromethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Bromoform | EPA 8260B | P2A0417 | 2.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Bromomethane | EPA 8260B | P2A0417 | 4.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 2-Butanone (MEK) | EPA 8260B | P2A0417 | 10 | ND | 1 | 1/4/02 | 1/4/02 | |
| n-Butylbenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| sec-Butylbenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| tert-Butylbenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Carbon Disulfide | EPA 8260B | P2A0417 | 5.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Carbon tetrachloride | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Chlorobenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Chloroethane | EPA 8260B | P2A0417 | 4.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Chloroform | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Chloromethane | EPA 8260B | P2A0417 | 4.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 2-Chlorotoluene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 4-Chlorotoluene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Dibromochloromethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Dibromomethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2-Dichlorobenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,3-Dichlorobenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,4-Dichlorobenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Dichlorodifluoromethane | EPA 8260B | P2A0417 | 4.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,1-Dichloroethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2-Dichloroethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,1-Dichloroethene | EPA 8260B | P2A0417 | 2.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| **cis-1,2-Dichloroethene** | EPA 8260B | P2A0417 | 1.0 | **3.0** | 1 | 1/4/02 | 1/4/02 | |
| trans-1,2-Dichloroethene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2-Dichloropropane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,3-Dichloropropane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 2,2-Dichloropropane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,1-Dichloropropene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| cis-1,3-Dichloropropene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| trans-1,3-Dichloropropene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Ethylbenzene | EPA 8260B | P2A0417 | 2.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Hexachlorobutadiene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 2-Hexanone | EPA 8260B | P2A0417 | 10 | ND | 1 | 1/4/02 | 1/4/02 | |
| Iodomethane | EPA 8260B | P2A0417 | 2.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Isopropylbenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |



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Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PKL0435-16 (MW-11 240 - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Methylene chloride | EPA 8260B | P2A0417 | 5.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P2A0417 | 10 | ND | 1 | 1/4/02 | 1/4/02 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P2A0417 | 5.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Naphthalene | EPA 8260B | P2A0417 | 2.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| n-Propylbenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Styrene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P2A0417 | 2.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| **Tetrachloroethene** | EPA 8260B | P2A0417 | 1.0 | **2.0** | 1 | 1/4/02 | 1/4/02 | |
| Toluene | EPA 8260B | P2A0417 | 2.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,1,1-Trichloroethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,1,2-Trichloroethane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Trichloroethene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Trichlorofluoromethane | EPA 8260B | P2A0417 | 4.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2,3-Trichloropropane | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Vinyl acetate | EPA 8260B | P2A0417 | 5.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Vinyl chloride | EPA 8260B | P2A0417 | 1.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| Xylenes, Total | EPA 8260B | P2A0417 | 3.0 | ND | 1 | 1/4/02 | 1/4/02 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *99 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *110 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *104 %* | | | | |

Debbie Fuller
Project Manager

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PKL0435-17 (Trip Blank - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P2A0401 | 20 | ND | 1 | 1/3/02 | 1/3/02 | N2 |
| Benzene | EPA 8260B | P2A0401 | 1.0 | ND | I | 1/3/02 | 1/3/02 | |
| Bromobenzene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Bromochloromethane | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Bromodichloromethane | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Bromoform | EPA 8260B | P2A0401 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Bromomethane | EPA 8260B | P2A0401 | 4.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 2-Butanone (MEK) | EPA 8260B | P2A0401 | 10 | ND | 1 | 1/3/02 | 1/3/02 | |
| n-Butylbenzene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| sec-Butylbenzene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| tert-Butylbenzene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Carbon Disulfide | EPA 8260B | P2A0401 | 5.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Carbon tetrachloride | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Chlorobenzene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Chloroethane | EPA 8260B | P2A0401 | 4.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Chloroform | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Chloromethane | EPA 8260B | P2A0401 | 4.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 2-Chlorotoluene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 4-Chlorotoluene | EPA.8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Dibromochloromethane | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Dibromomethane | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2-Dichlorobenzene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,3-Dichlorobenzene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,4-Dichlorobenzene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Dichlorodifluoromethane | EPA 8260B | P2A0401 | 4.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1-Dichloroethane | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2-Dichloroethane | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1-Dichloroethene | EPA 8260B | P2A0401 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| cis-1,2-Dichloroethene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| trans-1,2-Dichloroethene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2-Dichloropropane | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,3-Dichloropropane | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 2,2-Dichloropropane | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1-Dichloropropene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| cis-1,3-Dichloropropene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| trans-1,3-Dichloropropene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Ethylbenzene | EPA 8260B | P2A0401 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Hexachlorobutadiene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 2-Hexanone | EPA 8260B | P2A0401 | 10 | ND | 1 | 1/3/02 | 1/3/02 | |
| Iodomethane | EPA 8260B | P2A0401 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Isopropylbenzene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |

Debbie Fuller
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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PKL0435-17 (Trip Blank - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Methylene chloride | EPA 8260B | P2A0401 | 5.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P2A0401 | 10 | ND | 1 | 1/3/02 | 1/3/02 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P2A0401 | 5.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Naphthalene | EPA 8260B | P2A0401 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| n-Propylbenzene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Styrene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P2A0401 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Tetrachloroethene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Toluene | EPA 8260B | P2A0401 | 2.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1,1-Trichloroethane | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,1,2-Trichloroethane | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Trichloroethene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Trichlorofluoromethane | EPA 8260B | P2A0401 | 4.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2,3-Trichloropropane | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Vinyl acetate | EPA 8260B | P2A0401 | 5.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Vinyl chloride | EPA 8260B | P2A0401 | 1.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| Xylenes, Total | EPA 8260B | P2A0401 | 3.0 | ND | 1 | 1/3/02 | 1/3/02 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *109 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *112 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *106 %* | | | | |

**DEL MAR ANALYTICAL, PHOENIX (AZ0426)**

Debbie Fuller
Project Manager

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Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

# TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | mg/l | mg/l | | | | |
| **Sample ID: PKL0435-01 (MW-2D - Water)** | | | | | | | | |
| Arsenic | EPA 200.7 | P1L2701 | 0.050 | ND | 1 | 12/27/01 | 12/27/01 | |
| Chromium | EPA 200.7 | P1L2701 | 0.010 | ND | 1 | 12/27/01 | 12/27/01 | |
| Iron | EPA 200.7 | P1L2701 | 0.20 | ND | 1 | 12/27/01 | 12/27/01 | |
| Manganese | EPA 200.7 | P1L2701 | 0.020 | ND | 1 | 12/27/01 | 12/27/01 | |
| Nickel | EPA 200.7 | P1L2701 | 0.050 | ND | 1 | 12/27/01 | 12/27/01 | |
| **Sample ID: PKL0435-02 (MW-3S - Water)** | | | | | | | | |
| Arsenic | EPA 200.7 | P2A0203 | 0.050 | ND | 1 | 1/2/02 | 1/3/02 | |
| Chromium | EPA 200.7 | P2A0203 | 0.010 | ND | 1 | 1/2/02 | 1/3/02 | |
| Iron | EPA 200.7 | P2A0203 | 0.20 | ND | 1 | 1/2/02 | 1/3/02 | |
| Manganese | EPA 200.7 | P2A0203 | 0.020 | ND | 1 | 1/2/02 | 1/3/02 | |
| Nickel | EPA 200.7 | P2A0203 | 0.050 | ND | 1 | 1/2/02 | 1/3/02 | |
| **Sample ID: PKL0435-03 (MW-5D - Water)** | | | | | | | | |
| Arsenic | EPA 200.7 | P1L3123 | 0.050 | ND | 1 | 12/31/01 | 1/2/02 | |
| Chromium | EPA 200.7 | P1L3123 | 0.010 | ND | 1 | 12/31/01 | 1/2/02 | |
| Iron | EPA 200.7 | P1L3123 | 0.20 | ND | 1 | 12/31/01 | 1/2/02 | |
| Manganese | EPA 200.7 | P1L3123 | 0.020 | ND | 1 | 12/31/01 | 1/2/02 | |
| Nickel | EPA 200.7 | P1L3123 | 0.050 | ND | 1 | 12/31/01 | 1/2/02 | |
| **Sample ID: PKL0435-04 (MW-7D - Water)** | | | | | | | | |
| Arsenic | EPA 200.7 | P1L3123 | 0.050 | ND | 1 | 12/31/01 | 1/2/02 | |
| Chromium | EPA 200.7 | P1L3123 | 0.010 | ND | 1 | 12/31/01 | 1/2/02 | |
| **Iron** | EPA 200.7 | P1L3123 | 0.20 | **0.62** | 1 | 12/31/01 | 1/2/02 | |
| Manganese | EPA 200.7 | P1L3123 | 0.020 | ND | 1 | 12/31/01 | 1/2/02 | |
| Nickel | EPA 200.7 | P1L3123 | 0.050 | ND | 1 | 12/31/01 | 1/2/02 | |

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|---|---|---|---|---|---|---|---|---|
| | | | mg/l | mg/l | | | | |
| **Sample ID: PKL0435-05 (MW-AM-8S - Water)** | | | | | | | | |
| Arsenic | EPA 200.7 | P1L2701 | 0.050 | ND | 1 | 12/27/01 | 12/27/01 | |
| **Chromium** | EPA 200.7 | P1L2701 | 0.010 | **0.46** | 1 | 12/27/01 | 12/27/01 | |
| **Iron** | EPA 200.7 | P1L2701 | 0.20 | **4.0** | 1 | 12/27/01 | 12/27/01 | |
| **Manganese** | EPA 200.7 | P1L2701 | 0.020 | **0.41** | 1 | 12/27/01 | 12/27/01 | |
| **Nickel** | EPA 200.7 | P1L2701 | 0.050 | **0.052** | 1 | 12/27/01 | 12/27/01 | |
| **Sample ID: PKL0435-06 (MW-12 - Water)** | | | | | | | | |
| Arsenic | EPA 200.7 | P2A0203 | 0.050 | ND | 1 | 1/2/02 | 1/3/02 | |
| Chromium | EPA 200.7 | P2A0203 | 0.010 | ND | 1 | 1/2/02 | 1/3/02 | |
| **Iron** | EPA 200.7 | P2A0203 | 0.20 | **0.72** | 1 | 1/2/02 | 1/3/02 | |
| Manganese | EPA 200.7 | P2A0203 | 0.020 | ND | 1 | 1/2/02 | 1/3/02 | |
| Nickel | EPA 200.7 | P2A0203 | 0.050 | ND | 1 | 1/2/02 | 1/3/02 | |
| **Sample ID: PKL0435-07 (MW-9 130 - Water)** | | | | | | | | |
| Arsenic | EPA 200.7 | P2A0406 | 0.050 | ND | 1 | 1/4/02 | 1/7/02 | |
| Chromium | EPA 200.7 | P2A0406 | 0.010 | ND | 1 | 1/4/02 | 1/7/02 | |
| **Iron** | EPA 200.7 | P2A0406 | 0.20 | **2.9** | 1 | 1/4/02 | 1/7/02 | |
| **Manganese** | EPA 200.7 | P2A0406 | 0.020 | **3.9** | 1 | 1/4/02 | 1/7/02 | |
| Nickel | EPA 200.7 | P2A0406 | 0.050 | ND | 1 | 1/4/02 | 1/7/02 | |
| **Sample ID: PKL0435-08 (MW-9 175 - Water)** | | | | | | | | |
| Arsenic | EPA 200.7 | P2A0203 | 0.050 | ND | 1 | 1/2/02 | 1/3/02 | |
| Chromium | EPA 200.7 | P2A0203 | 0.010 | ND | 1 | 1/2/02 | 1/3/02 | |
| **Iron** | EPA 200.7 | P2A0203 | 0.20 | **6.8** | 1 | 1/2/02 | 1/3/02 | |
| **Manganese** | EPA 200.7 | P2A0203 | 0.020 | **4.8** | 1 | 1/2/02 | 1/3/02 | |
| Nickel | EPA 200.7 | P2A0203 | 0.050 | ND | 1 | 1/2/02 | 1/3/02 | |

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| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | mg/l | mg/l | | | | |
| **Sample ID: PKL0435-09 (MW-9 205 - Water)** | | | | | | | | |
| Arsenic | EPA 200.7 | P2A0406 | 0.050 | ND | 1 | 1/4/02 | 1/7/02 | |
| Chromium | EPA 200.7 | P2A0406 | 0.010 | ND | 1 | 1/4/02 | 1/7/02 | |
| **Iron** | EPA 200.7 | P2A0406 | 0.20 | **5.3** | 1 | 1/4/02 | 1/7/02 | |
| **Manganese** | EPA 200.7 | P2A0406 | 0.020 | **7.6** | 1 | 1/4/02 | 1/7/02 | |
| Nickel | EPA 200.7 | P2A0406 | 0.050 | ND | 1 | 1/4/02 | 1/7/02 | |
| **Sample ID: PKL0435-10 (MW-9 235 - Water)** | | | | | | | | |
| Arsenic | EPA 200.7 | P2A0406 | 0.050 | ND | 1 | 1/4/02 | 1/7/02 | |
| Chromium | EPA 200.7 | P2A0406 | 0.010 | ND | 1 | 1/4/02 | 1/7/02 | |
| Iron | EPA 200.7 | P2A0406 | 0.20 | ND | 1 | 1/4/02 | 1/7/02 | |
| **Manganese** | EPA 200.7 | P2A0406 | 0.020 | **0.031** | 1 | 1/4/02 | 1/7/02 | |
| Nickel | EPA 200.7 | P2A0406 | 0.050 | ND | 1 | 1/4/02 | 1/7/02 | |
| **Sample ID: PKL0435-11 (MW-10 170 - Water)** | | | | | | | | |
| Arsenic | EPA 200.7 | P1L2701 | 0.050 | ND | 1 | 12/27/01 | 12/27/01 | |
| Chromium | EPA 200.7 | P1L2701 | 0.010 | ND | 1 | 12/27/01 | 12/27/01 | |
| **Iron** | EPA 200.7 | P1L2701 | 0.20 | **3.7** | 1 | 12/27/01 | 12/27/01 | |
| **Manganese** | EPA 200.7 | P1L2701 | 0.020 | **5.6** | 1 | 12/27/01 | 12/27/01 | |
| Nickel | EPA 200.7 | P1L2701 | 0.050 | ND | 1 | 12/27/01 | 12/27/01 | |
| **Sample ID: PKL0435-12 (MW-10 130 - Water)** | | | | | | | | |
| Arsenic | EPA 200.7 | P2A0406 | 0.050 | ND | 1 | 1/4/02 | 1/7/02 | |
| Chromium | EPA 200.7 | P2A0406 | 0.010 | ND | 1 | 1/4/02 | 1/7/02 | |
| **Iron** | EPA 200.7 | P2A0406 | 0.20 | **3.7** | 1 | 1/4/02 | 1/7/02 | |
| **Manganese** | EPA 200.7 | P2A0406 | 0.020 | **5.5** | 1 | 1/4/02 | 1/7/02 | |
| Nickel | EPA 200.7 | P2A0406 | 0.050 | ND | 1 | 1/4/02 | 1/7/02 | |

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## TOTAL RECOVERABLE METALS

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|---|---|---|---|---|---|---|---|---|
| | | | mg/l | mg/l | | | | |
| **Sample ID: PKL0435-13 (MW-10 235 - Water)** | | | | | | | | |
| Arsenic | EPA 200.7 | P2A0406 | 0.050 | ND | 1 | 1/4/02 | 1/7/02 | |
| Chromium | EPA 200.7 | P2A0406 | 0.010 | ND | 1 | 1/4/02 | 1/7/02 | |
| Iron | EPA 200.7 | P2A0406 | 0.20 | ND | 1 | 1/4/02 | 1/7/02 | |
| **Manganese** | EPA 200.7 | P2A0406 | 0.020 | **2.8** | 1 | 1/4/02 | 1/7/02 | |
| Nickel | EPA 200.7 | P2A0406 | 0.050 | ND | 1 | 1/4/02 | 1/7/02 | |
| **Sample ID: PKL0435-14 (MW-11 200 - Water)** | | | | | | | | |
| Arsenic | EPA 200.7 | P2A0406 | 0.050 | ND | 1 | 1/4/02 | 1/7/02 | |
| Chromium | EPA 200.7 | P2A0406 | 0.010 | ND | 1 | 1/4/02 | 1/7/02 | |
| **Iron** | EPA 200.7 | P2A0406 | 0.20 | **7.0** | 1 | 1/4/02 | 1/7/02 | |
| **Manganese** | EPA 200.7 | P2A0406 | 0.020 | **6.7** | 1 | 1/4/02 | 1/7/02 | |
| Nickel | EPA 200.7 | P2A0406 | 0.050 | ND | 1 | 1/4/02 | 1/7/02 | |
| **Sample ID: PKL0435-15 (MW-11 170 - Water)** | | | | | | | | |
| Arsenic | EPA 200.7 | P2A0203 | 0.050 | ND | 1 | 1/2/02 | 1/3/02 | |
| Chromium | EPA 200.7 | P2A0203 | 0.010 | ND | 1 | 1/2/02 | 1/3/02 | |
| **Iron** | EPA 200.7 | P2A0203 | 0.20 | **4.2** | 1 | 1/2/02 | 1/3/02 | |
| **Manganese** | EPA 200.7 | P2A0203 | 0.020 | **5.0** | 1 | 1/2/02 | 1/3/02 | |
| Nickel | EPA 200.7 | P2A0203 | 0.050 | ND | 1 | 1/2/02 | 1/3/02 | |
| **Sample ID: PKL0435-16RE1 (MW-11 240 - Water)** | | | | | | | | |
| Arsenic | EPA 200.7 | P2A0807 | 0.050 | ND | 1 | 1/8/02 | 1/9/02 | |
| Chromium | EPA 200.7 | P2A0807 | 0.010 | ND | 1 | 1/8/02 | 1/9/02 | |
| **Iron** | EPA 200.7 | P2A0807 | 0.20 | **3.4** | 1 | 1/8/02 | 1/9/02 | |
| **Manganese** | EPA 200.7 | P2A0807 | 0.020 | **8.9** | 1 | 1/8/02 | 1/9/02 | |
| Nickel | EPA 200.7 | P2A0807 | 0.050 | ND | 1 | 1/8/02 | 1/9/02 | |

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Received: 12/22/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P2A0315 Extracted: 01/03/02** | | | | | | | | | | |
| **Blank Analyzed: 01/03/02 (P2A0315-BLK1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | |
| Benzene | ND | 1.0 | ug/l | | | | | | | |
| Bromobenzene | ND | 1.0 | ug/l | | | | | | | |
| Bromochloromethane | ND | 1.0 | ug/l | | | | | | | |
| Bromodichloromethane | ND | 1.0 | ug/l | | | | | | | |
| Bromoform | ND | 2.0 | ug/l | | | | | | | |
| Bromomethane | ND | 4.0 | ug/l | | | | | | | |
| 2-Butanone (MEK) | ND | 10 | ug/l | | | | | | | |
| n-Butylbenzene | ND | 1.0 | ug/l | | | | | | | |
| sec-Butylbenzene | ND | 1.0 | ug/l | | | | | | | |
| tert-Butylbenzene | ND | 1.0 | ug/l | | | | | | | |
| Carbon Disulfide | ND | 5.0 | ug/l | | | | | | | |
| Carbon tetrachloride | ND | 1.0 | ug/l | | | | | | | |
| Chlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| Chloroethane | ND | 4.0 | ug/l | | | | | | | |
| Chloroform | ND | 1.0 | ug/l | | | | | | | |
| Chloromethane | ND | 4.0 | ug/l | | | | | | | |
| 2-Chlorotoluene | ND | 1.0 | ug/l | | | | | | | |
| 4-Chlorotoluene | ND | 1.0 | ug/l | | | | | | | |
| Dibromochloromethane | ND | 1.0 | ug/l | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | ug/l | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | ug/l | | | | | | | |
| Dibromomethane | ND | 1.0 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| Dichlorodifluoromethane | ND | 4.0 | ug/l | | | | | | | |
| 1,1-Dichloroethane | ND | 1.0 | ug/l | | | | | | | |
| 1,2-Dichloroethane | ND | 1.0 | ug/l | | | | | | | |
| 1,1-Dichloroethene | ND | 2.0 | ug/l | | | | | | | |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/l | | | | | | | |
| trans-1,2-Dichloroethene | ND | 1.0 | ug/l | | | | | | | |
| 1,2-Dichloropropane | ND | 1.0 | ug/l | | | | | | | |

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P2A0315 Extracted: 01/03/02** | | | | | | | | | | |
| **Blank Analyzed: 01/03/02 (P2A0315-BLK1)** | | | | | | | | | | |
| 1,3-Dichloropropane | ND | 1.0 | ug/l | | | | | | | |
| 2,2-Dichloropropane | ND | 1.0 | ug/l | | | | | | | |
| 1,1-Dichloropropene | ND | 1.0 | ug/l | | | | | | | |
| cis-1,3-Dichloropropene | ND | 1.0 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 1.0 | ug/l | | | | | | | |
| Ethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 1.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 10 | ug/l | | | | | | | |
| Iodomethane | ND | 2.0 | ug/l | | | | | | | |
| Isopropylbenzene | ND | 1.0 | ug/l | | | | | | | |
| p-Isopropyltoluene | ND | 1.0 | ug/l | | | | | | | |
| Methylene chloride | ND | 5.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 5.0 | ug/l | | | | | | | |
| Naphthalene | ND | 2.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 1.0 | ug/l | | | | | | | |
| Styrene | ND | 1.0 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/l | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 1.0 | ug/l | | | | | | | |
| Toluene | ND | 2.0 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/l | | | | | | | |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/l | | | | | | | |
| Trichloroethene | ND | 1.0 | ug/l | | | | | | | |
| Trichlorofluoromethane | ND | 4.0 | ug/l | | | | | | | |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/l | | | | | | | |
| Vinyl acetate | ND | 5.0 | ug/l | | | | | | | |
| Vinyl chloride | ND | 1.0 | ug/l | | | | | | | |
| Xylenes, Total | ND | 3.0 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *25.1* | | *ug/l* | *25.0* | | *100* | *80-120* | | | |

Debbie Fuller
Project Manager

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Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P2A0315 Extracted: 01/03/02** | | | | | | | | | | |
| **Blank Analyzed: 01/03/02 (P2A0315-BLK1)** | | | | | | | | | | |
| *Surrogate: Toluene-d8* | *27.5* | | *ug/l* | *25.0* | | *110* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.7* | | *ug/l* | *25.0* | | *107* | *80-120* | | | |
| **LCS Analyzed: 01/03/02 (P2A0315-BS1)** | | | | | | | | | | |
| **Acetone** | **20.0** | 20 | ug/l | 25.0 | | 80 | 30-200 | | | |
| **Benzene** | **26.6** | 1.0 | ug/l | 25.0 | | 106 | 80-120 | | | |
| **Bromobenzene** | **26.1** | 1.0 | ug/l | 25.0 | | 104 | 80-120 | | | |
| **Bromochloromethane** | **23.6** | 1.0 | ug/l | 25.0 | | 94 | 80-120 | | | |
| **Bromodichloromethane** | **24.9** | 1.0 | ug/l | 25.0 | | 100 | 80-130 | | | |
| **Bromoform** | **26.0** | 2.0 | ug/l | 25.0 | | 104 | 60-140 | | | |
| **Bromomethane** | **26.3** | 4.0 | ug/l | 25.0 | | 105 | 60-150 | | | |
| **2-Butanone (MEK)** | **20.0** | 10 | ug/l | 25.0 | | 80 | 30-185 | | | |
| **n-Butylbenzene** | **27.0** | 1.0 | ug/l | 25.0 | | 108 | 75-130 | | | |
| **sec-Butylbenzene** | **26.5** | 1.0 | ug/l | 25.0 | | 106 | 80-125 | | | |
| **tert-Butylbenzene** | **25.8** | 1.0 | ug/l | 25.0 | | 103 | 80-120 | | | |
| **Carbon Disulfide** | **24.6** | 5.0 | ug/l | 25.0 | | 98 | 65-120 | | | |
| **Carbon tetrachloride** | **26.2** | 1.0 | ug/l | 25.0 | | 105 | 75-150 | | | |
| **Chlorobenzene** | **25.9** | 1.0 | ug/l | 25.0 | | 104 | 80-120 | | | |
| **Chloroethane** | **25.5** | 4.0 | ug/l | 25.0 | | 102 | 80-125 | | | |
| **Chloroform** | **25.0** | 1.0 | ug/l | 25.0 | | 100 | 80-120 | | | |
| **Chloromethane** | **23.3** | 4.0 | ug/l | 25.0 | | 93 | 60-125 | | | |
| **2-Chlorotoluene** | **26.7** | 1.0 | ug/l | 25.0 | | 107 | 80-120 | | | |
| **4-Chlorotoluene** | **26.1** | 1.0 | ug/l | 25.0 | | 104 | 80-120 | | | |
| **Dibromochloromethane** | **22.7** | 1.0 | ug/l | 25.0 | | 91 | 70-150 | | | |
| **1,2-Dibromo-3-chloropropane** | **23.2** | 1.0 | ug/l | 25.0 | | 93 | 50-145 | | | |
| **1,2-Dibromoethane (EDB)** | **24.7** | 1.0 | ug/l | 25.0 | | 99 | 75-120 | | | |
| **Dibromomethane** | **24.4** | 1.0 | ug/l | 25.0 | | 98 | 80-120 | | | |
| **1,2-Dichlorobenzene** | **24.8** | 1.0 | ug/l | 25.0 | | 99 | 80-120 | | | |
| **1,3-Dichlorobenzene** | **24.7** | 1.0 | ug/l | 25.0 | | 99 | 80-120 | | | |
| **1,4-Dichlorobenzene** | **24.8** | 1.0 | ug/l | 25.0 | | 99 | 80-120 | | | |
| **Dichlorodifluoromethane** | **25.6** | 4.0 | ug/l | 25.0 | | 102 | 25-140 | | | |
| **1,1-Dichloroethane** | **24.3** | 1.0 | ug/l | 25.0 | | 97 | 80-120 | | | |
| **1,2-Dichloroethane** | **22.6** | 1.0 | ug/l | 25.0 | | 90 | 80-120 | | | |
| **1,1-Dichloroethene** | **25.2** | 2.0 | ug/l | 25.0 | | 101 | 80-120 | | | |
| **cis-1,2-Dichloroethene** | **24.7** | 1.0 | ug/l | 25.0 | | 99 | 80-120 | | | |
| **trans-1,2-Dichloroethene** | **23.8** | 1.0 | ug/l | 25.0 | | 95 | 80-120 | | | |

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Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P2A0315 Extracted: 01/03/02** | | | | | | | | | | |
| **LCS Analyzed: 01/03/02 (P2A0315-BS1)** | | | | | | | | | | |
| 1,2-Dichloropropane | 25.0 | 1.0 | ug/l | 25.0 | | 100 | 80-120 | | | |
| 1,3-Dichloropropane | 26.0 | 1.0 | ug/l | 25.0 | | 104 | 80-120 | | | |
| 2,2-Dichloropropane | 24.7 | 1.0 | ug/l | 25.0 | | 99 | 75-135 | | | |
| 1,1-Dichloropropene | 25.9 | 1.0 | ug/l | 25.0 | | 104 | 80-120 | | | |
| cis-1,3-Dichloropropene | 25.3 | 1.0 | ug/l | 25.0 | | 101 | 80-120 | | | |
| trans-1,3-Dichloropropene | 22.1 | 1.0 | ug/l | 25.0 | | 88 | 80-120 | | | |
| Ethylbenzene | 27.8 | 2.0 | ug/l | 25.0 | | 111 | 80-120 | | | |
| Hexachlorobutadiene | 27.9 | 1.0 | ug/l | 25.0 | | 112 | 60-145 | | | |
| 2-Hexanone | 19.9 | 10 | ug/l | 25.0 | | 80 | 50-170 | | | |
| Iodomethane | 25.2 | 2.0 | ug/l | 25.0 | | 101 | 40-155 | | | |
| Isopropylbenzene | 26.8 | 1.0 | ug/l | 25.0 | | 107 | 80-120 | | | |
| p-Isopropyltoluene | 25.6 | 1.0 | ug/l | 25.0 | | 102 | 80-120 | | | |
| Methylene chloride | 24.3 | 5.0 | ug/l | 25.0 | | 97 | 80-120 | | | |
| 4-Methyl-2-pentanone (MIBK) | 23.0 | 10 | ug/l | 25.0 | | 92 | 70-140 | | | |
| Methyl-tert-butyl Ether (MTBE) | 22.6 | 5.0 | ug/l | 25.0 | | 90 | 75-135 | | | |
| Naphthalene | 29.1 | 2.0 | ug/l | 25.0 | | 116 | 70-130 | | | |
| n-Propylbenzene | 27.6 | 1.0 | ug/l | 25.0 | | 110 | 80-120 | | | |
| Styrene | 27.6 | 1.0 | ug/l | 25.0 | | 110 | 80-120 | | | |
| 1,1,1,2-Tetrachloroethane | 26.4 | 1.0 | ug/l | 25.0 | | 106 | 65-150 | | | |
| 1,1,2,2-Tetrachloroethane | 26.4 | 2.0 | ug/l | 25.0 | | 106 | 70-130 | | | |
| Tetrachloroethene | 28.1 | 1.0 | ug/l | 25.0 | | 112 | 80-125 | | | |
| Toluene | 26.6 | 2.0 | ug/l | 25.0 | | 106 | 80-120 | | | |
| 1,2,3-Trichlorobenzene | 29.8 | 1.0 | ug/l | 25.0 | | 119 | 75-125 | | | |
| 1,2,4-Trichlorobenzene | 27.9 | 1.0 | ug/l | 25.0 | | 112 | 80-120 | | | |
| 1,1,1-Trichloroethane | 24.9 | 1.0 | ug/l | 25.0 | | 100 | 80-120 | | | |
| 1,1,2-Trichloroethane | 24.3 | 1.0 | ug/l | 25.0 | | 97 | 80-120 | | | |
| Trichloroethene | 25.7 | 1.0 | ug/l | 25.0 | | 103 | 80-120 | | | |
| Trichlorofluoromethane | 24.8 | 4.0 | ug/l | 25.0 | | 99 | 75-150 | | | |
| 1,2,3-Trichloropropane | 24.4 | 1.0 | ug/l | 25.0 | | 98 | 65-135 | | | |
| 1,2,4-Trimethylbenzene | 27.5 | 1.0 | ug/l | 25.0 | | 110 | 80-120 | | | |
| 1,3,5-Trimethylbenzene | 27.4 | 1.0 | ug/l | 25.0 | | 110 | 80-120 | | | |
| Vinyl acetate | 22.5 | 5.0 | ug/l | 25.0 | | 90 | 40-120 | | | |
| Vinyl chloride | 27.4 | 1.0 | ug/l | 25.0 | | 110 | 80-120 | | | |
| Xylenes, Total | 82.5 | 3.0 | ug/l | 75.0 | | 110 | 80-120 | | | |
| *Surrogate: Dibromofluoromethane* | *25.3* | | *ug/l* | *25.0* | | *101* | *80-120* | | | |

Debbie Fuller
Project Manager

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Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130

Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

## METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P2A0315 Extracted: 01/03/02** | | | | | | | | | | |
| **LCS Analyzed: 01/03/02 (P2A0315-BS1)** | | | | | | | | | | |
| *Surrogate: Toluene-d8* | *27.2* | | *ug/l* | *25.0* | | *109* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *27.0* | | *ug/l* | *25.0* | | *108* | *80-120* | | | |
| **LCS Dup Analyzed: 01/03/02 (P2A0315-BSD1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | 25.0 | | 75 | 30-200 | 6 | 20 | |
| **Benzene** | **26.4** | 1.0 | ug/l | 25.0 | | 106 | 80-120 | 0.8 | 20 | |
| **Bromobenzene** | **26.0** | 1.0 | ug/l | 25.0 | | 104 | 80-120 | 0.4 | 20 | |
| **Bromochloromethane** | **23.4** | 1.0 | ug/l | 25.0 | | 94 | 80-120 | 0.9 | 20 | |
| **Bromodichloromethane** | **24.9** | 1.0 | ug/l | 25.0 | | 100 | 80-130 | 0 | 20 | |
| **Bromoform** | **26.0** | 2.0 | ug/l | 25.0 | | 104 | 60-140 | 0 | 20 | |
| **Bromomethane** | **25.8** | 4.0 | ug/l | 25.0 | | 103 | 60-150 | 2 | 20 | |
| **2-Butanone (MEK)** | **19.7** | 10 | ug/l | 25.0 | | 79 | 30-185 | 2 | 20 | |
| **n-Butylbenzene** | **27.1** | 1.0 | ug/l | 25.0 | | 108 | 75-130 | 0.4 | 20 | |
| **sec-Butylbenzene** | **26.4** | 1.0 | ug/l | 25.0 | | 106 | 80-125 | 0.4 | 20 | |
| **tert-Butylbenzene** | **26.0** | 1.0 | ug/l | 25.0 | | 104 | 80-120 | 0.8 | 20 | |
| **Carbon Disulfide** | **24.5** | 5.0 | ug/l | 25.0 | | 98 | 65-120 | 0.4 | 20 | |
| **Carbon tetrachloride** | **25.7** | 1.0 | ug/l | 25.0 | | 103 | 75-150 | 2 | 20 | |
| **Chlorobenzene** | **24.8** | 1.0 | ug/l | 25.0 | | 99 | 80-120 | 4 | 20 | |
| **Chloroethane** | **24.5** | 4.0 | ug/l | 25.0 | | 98 | 80-125 | 4 | 20 | |
| **Chloroform** | **25.0** | 1.0 | ug/l | 25.0 | | 100 | 80-120 | 0 | 20 | |
| **Chloromethane** | **22.8** | 4.0 | ug/l | 25.0 | | 91 | 60-125 | 2 | 20 | |
| **2-Chlorotoluene** | **27.1** | 1.0 | ug/l | 25.0 | | 108 | 80-120 | 1 | 20 | |
| **4-Chlorotoluene** | **26.3** | 1.0 | ug/l | 25.0 | | 105 | 80-120 | 0.8 | 20 | |
| **Dibromochloromethane** | **21.8** | 1.0 | ug/l | 25.0 | | 87 | 70-150 | 4 | 20 | |
| **1,2-Dibromo-3-chloropropane** | **23.8** | 1.0 | ug/l | 25.0 | | 95 | 50-145 | 3 | 20 | |
| **1,2-Dibromoethane (EDB)** | **23.8** | 1.0 | ug/l | 25.0 | | 95 | 75-120 | 4 | 20 | |
| **Dibromomethane** | **24.6** | 1.0 | ug/l | 25.0 | | 98 | 80-120 | 0.8 | 20 | |
| **1,2-Dichlorobenzene** | **24.6** | 1.0 | ug/l | 25.0 | | 98 | 80-120 | 0.8 | 20 | |
| **1,3-Dichlorobenzene** | **24.6** | 1.0 | ug/l | 25.0 | | 98 | 80-120 | 0.4 | 20 | |
| **1,4-Dichlorobenzene** | **24.3** | 1.0 | ug/l | 25.0 | | 97 | 80-120 | 2 | 20 | |
| **Dichlorodifluoromethane** | **25.0** | 4.0 | ug/l | 25.0 | | 100 | 25-140 | 2 | 20 | |
| **1,1-Dichloroethane** | **26.0** | 1.0 | ug/l | 25.0 | | 104 | 80-120 | 7 | 20 | |
| **1,2-Dichloroethane** | **22.3** | 1.0 | ug/l | 25.0 | | 89 | 80-120 | 1 | 20 | |
| **1,1-Dichloroethene** | **25.4** | 2.0 | ug/l | 25.0 | | 102 | 80-120 | 0.8 | 20 | |
| **cis-1,2-Dichloroethene** | **26.0** | 1.0 | ug/l | 25.0 | | 104 | 80-120 | 5 | 20 | |
| **trans-1,2-Dichloroethene** | **24.0** | 1.0 | ug/l | 25.0 | | 96 | 80-120 | 0.8 | 20 | |

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Project Manager

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Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P2A0315 Extracted: 01/03/02** | | | | | | | | | | |
| **LCS Dup Analyzed: 01/03/02 (P2A0315-BSD1)** | | | | | | | | | | |
| 1,2-Dichloropropane | 25.2 | 1.0 | ug/l | 25.0 | | 101 | 80-120 | 0.8 | 20 | |
| 1,3-Dichloropropane | 24.9 | 1.0 | ug/l | 25.0 | | 100 | 80-120 | 4 | 20 | |
| 2,2-Dichloropropane | 24.4 | 1.0 | ug/l | 25.0 | | 98 | 75-135 | 1 | 20 | |
| 1,1-Dichloropropene | 25.6 | 1.0 | ug/l | 25.0 | | 102 | 80-120 | 1 | 20 | |
| cis-1,3-Dichloropropene | 25.1 | 1.0 | ug/l | 25.0 | | 100 | 80-120 | 0.8 | 20 | |
| trans-1,3-Dichloropropene | 22.2 | 1.0 | ug/l | 25.0 | | 89 | 80-120 | 0.5 | 20 | |
| Ethylbenzene | 26.8 | 2.0 | ug/l | 25.0 | | 107 | 80-120 | 4 | 20 | |
| Hexachlorobutadiene | 26.9 | 1.0 | ug/l | 25.0 | | 108 | 60-145 | 4 | 20 | |
| 2-Hexanone | 19.1 | 10 | ug/l | 25.0 | | 76 | 50-170 | 4 | 20 | |
| Iodomethane | 24.6 | 2.0 | ug/l | 25.0 | | 98 | 40-155 | 2 | 20 | |
| Isopropylbenzene | 26.9 | 1.0 | ug/l | 25.0 | | 108 | 80-120 | 0.4 | 20 | |
| p-Isopropyltoluene | 25.4 | 1.0 | ug/l | 25.0 | | 102 | 80-120 | 0.8 | 20 | |
| Methylene chloride | 24.2 | 5.0 | ug/l | 25.0 | | 97 | 80-120 | 0.4 | 20 | |
| 4-Methyl-2-pentanone (MIBK) | 23.2 | 10 | ug/l | 25.0 | | 93 | 70-140 | 0.9 | 20 | |
| Methyl-tert-butyl Ether (MTBE) | 22.6 | 5.0 | ug/l | 25.0 | | 90 | 75-135 | 0 | 20 | |
| Naphthalene | 30.1 | 2.0 | ug/l | 25.0 | | 120 | 70-130 | 3 | 20 | |
| n-Propylbenzene | 27.7 | 1.0 | ug/l | 25.0 | | 111 | 80-120 | 0.4 | 20 | |
| Styrene | 26.4 | 1.0 | ug/l | 25.0 | | 106 | 80-120 | 4 | 20 | |
| 1,1,1,2-Tetrachloroethane | 25.2 | 1.0 | ug/l | 25.0 | | 101 | 65-150 | 5 | 20 | |
| 1,1,2,2-Tetrachloroethane | 26.3 | 2.0 | ug/l | 25.0 | | 105 | 70-130 | 0.4 | 20 | |
| Tetrachloroethene | 26.3 | 1.0 | ug/l | 25.0 | | 105 | 80-125 | 7 | 20 | |
| Toluene | 26.5 | 2.0 | ug/l | 25.0 | | 106 | 80-120 | 0.4 | 20 | |
| 1,2,3-Trichlorobenzene | 29.6 | 1.0 | ug/l | 25.0 | | 118 | 75-125 | 0.7 | 20 | |
| 1,2,4-Trichlorobenzene | 27.3 | 1.0 | ug/l | 25.0 | | 109 | 80-120 | 2 | 20 | |
| 1,1,1-Trichloroethane | 25.0 | 1.0 | ug/l | 25.0 | | 100 | 80-120 | 0.4 | 20 | |
| 1,1,2-Trichloroethane | 24.1 | 1.0 | ug/l | 25.0 | | 96 | 80-120 | 0.8 | 20 | |
| Trichloroethene | 25.7 | 1.0 | ug/l | 25.0 | | 103 | 80-120 | 0 | 20 | |
| Trichlorofluoromethane | 25.1 | 4.0 | ug/l | 25.0 | | 100 | 75-150 | 1 | 20 | |
| 1,2,3-Trichloropropane | 24.7 | 1.0 | ug/l | 25.0 | | 99 | 65-135 | 1 | 20 | |
| 1,2,4-Trimethylbenzene | 27.7 | 1.0 | ug/l | 25.0 | | 111 | 80-120 | 0.7 | 20 | |
| 1,3,5-Trimethylbenzene | 27.8 | 1.0 | ug/l | 25.0 | | 111 | 80-120 | 1 | 20 | |
| Vinyl acetate | 24.6 | 5.0 | ug/l | 25.0 | | 98 | 40-120 | 9 | 20 | |
| Vinyl chloride | 22.7 | 1.0 | ug/l | 25.0 | | 91 | 80-120 | 19 | 20 | |
| Xylenes, Total | 78.5 | 3.0 | ug/l | 75.0 | | 105 | 80-120 | 5 | 20 | |
| *Surrogate: Dibromofluoromethane* | *25.5* | | *ug/l* | *25.0* | | *102* | *80-120* | | | |

Debbie Fuller
Project Manager

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P2A0315 Extracted: 01/03/02** | | | | | | | | | | |
| **LCS Dup Analyzed: 01/03/02 (P2A0315-BSD1)** | | | | | | | | | | |
| *Surrogate: Toluene-d8* | *27.6* | | *ug/l* | *25.0* | | *110* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.3* | | *ug/l* | *25.0* | | *105* | *80-120* | | | |
| **Matrix Spike Analyzed: 01/03/02 (P2A0315-MS1)** | | | | | **Source: PKL0391-03** | | | | | |
| Acetone | ND | 20 | ug/l | 25.0 | ND | 58 | 5-200 | | | |
| **Benzene** | **27.8** | 1.0 | ug/l | 25.0 | ND | 111 | 80-120 | | | |
| **Bromobenzene** | **26.5** | 1.0 | ug/l | 25.0 | ND | 106 | 80-120 | | | |
| **Bromochloromethane** | **23.1** | 1.0 | ug/l | 25.0 | ND | 92 | 60-135 | | | |
| **Bromodichloromethane** | **25.2** | 1.0 | ug/l | 25.0 | ND | 101 | 80-120 | | | |
| **Bromoform** | **24.4** | 2.0 | ug/l | 25.0 | ND | 98 | 40-140 | | | |
| **Bromomethane** | **26.5** | 4.0 | ug/l | 25.0 | ND | 106 | 25-165 | | | |
| **2-Butanone (MEK)** | **17.0** | 10 | ug/l | 25.0 | ND | 68 | 10-160 | | | |
| **n-Butylbenzene** | **28.0** | 1.0 | ug/l | 25.0 | ND | 112 | 75-135 | | | |
| **sec-Butylbenzene** | **26.8** | 1.0 | ug/l | 25.0 | ND | 107 | 80-135 | | | |
| **tert-Butylbenzene** | **26.5** | 1.0 | ug/l | 25.0 | ND | 106 | 80-125 | | | |
| **Carbon Disulfide** | **25.2** | 5.0 | ug/l | 25.0 | ND | 101 | 20-120 | | | |
| **Carbon tetrachloride** | **26.2** | 1.0 | ug/l | 25.0 | ND | 105 | 80-145 | | | |
| **Chlorobenzene** | **29.2** | 1.0 | ug/l | 25.0 | 3.5 | 103 | 80-120 | | | |
| **Chloroethane** | **25.4** | 4.0 | ug/l | 25.0 | ND | 102 | 30-150 | | | |
| **Chloroform** | **24.9** | 1.0 | ug/l | 25.0 | ND | 100 | 80-125 | | | |
| **Chloromethane** | **23.2** | 4.0 | ug/l | 25.0 | ND | 93 | 15-140 | | | |
| **2-Chlorotoluene** | **27.3** | 1.0 | ug/l | 25.0 | ND | 109 | 80-125 | | | |
| **4-Chlorotoluene** | **26.7** | 1.0 | ug/l | 25.0 | ND | 107 | 80-125 | | | |
| **Dibromochloromethane** | **21.4** | 1.0 | ug/l | 25.0 | ND | 86 | 75-135 | | | |
| **1,2-Dibromo-3-chloropropane** | **20.2** | 1.0 | ug/l | 25.0 | ND | 81 | 25-185 | | | |
| **1,2-Dibromoethane (EDB)** | **23.1** | 1.0 | ug/l | 25.0 | ND | 92 | 45-145 | | | |
| **Dibromomethane** | **24.0** | 1.0 | ug/l | 25.0 | ND | 96 | 55-140 | | | |
| **1,2-Dichlorobenzene** | **27.8** | 1.0 | ug/l | 25.0 | 2.9 | 100 | 80-120 | | | |
| **1,3-Dichlorobenzene** | **25.1** | 1.0 | ug/l | 25.0 | ND | 100 | 80-120 | | | |
| **1,4-Dichlorobenzene** | **25.3** | 1.0 | ug/l | 25.0 | ND | 101 | 80-120 | | | |
| **Dichlorodifluoromethane** | **25.6** | 4.0 | ug/l | 25.0 | ND | 102 | 25-145 | | | |
| **1,1-Dichloroethane** | **24.9** | 1.0 | ug/l | 25.0 | ND | 100 | 75-120 | | | |
| **1,2-Dichloroethane** | **22.1** | 1.0 | ug/l | 25.0 | ND | 88 | 60-135 | | | |
| **1,1-Dichloroethene** | **25.9** | 2.0 | ug/l | 25.0 | ND | 104 | 55-120 | | | |
| **cis-1,2-Dichloroethene** | **68.1** | 1.0 | ug/l | 25.0 | 44 | 96 | 75-120 | | | |
| **trans-1,2-Dichloroethene** | **25.4** | 1.0 | ug/l | 25.0 | ND | 102 | 65-120 | | | |

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Project Manager

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P2A0315 Extracted: 01/03/02** | | | | | | | | | | |
| **Matrix Spike Analyzed: 01/03/02 (P2A0315-MS1)** | | | | | **Source: PKL0391-03** | | | | | |
| 1,2-Dichloropropane | 25.1 | 1.0 | ug/l | 25.0 | ND | 100 | 80-125 | | | |
| 1,3-Dichloropropane | 24.3 | 1.0 | ug/l | 25.0 | ND | 97 | 55-140 | | | |
| 2,2-Dichloropropane | 25.7 | 1.0 | ug/l | 25.0 | ND | 103 | 45-165 | | | |
| 1,1-Dichloropropene | 25.9 | 1.0 | ug/l | 25.0 | ND | 104 | 80-120 | | | |
| cis-1,3-Dichloropropene | 25.0 | 1.0 | ug/l | 25.0 | ND | 100 | 80-120 | | | |
| trans-1,3-Dichloropropene | 21.6 | 1.0 | ug/l | 25.0 | ND | 86 | 70-120 | | | |
| Ethylbenzene | 27.7 | 2.0 | ug/l | 25.0 | ND | 111 | 80-120 | | | |
| Hexachlorobutadiene | 27.7 | 1.0 | ug/l | 25.0 | ND | 111 | 80-135 | | | |
| 2-Hexanone | 16.7 | 10 | ug/l | 25.0 | ND | 67 | 25-185 | | | |
| Iodomethane | 25.1 | 2.0 | ug/l | 25.0 | ND | 100 | 30-155 | | | |
| Isopropylbenzene | 27.4 | 1.0 | ug/l | 25.0 | ND | 110 | 80-125 | | | |
| p-Isopropyltoluene | 26.1 | 1.0 | ug/l | 25.0 | ND | 104 | 80-125 | | | |
| Methylene chloride | 24.1 | 5.0 | ug/l | 25.0 | ND | 96 | 55-125 | | | |
| 4-Methyl-2-pentanone (MIBK) | 21.6 | 10 | ug/l | 25.0 | ND | 86 | 10-175 | | | |
| Methyl-tert-butyl Ether (MTBE) | 21.8 | 5.0 | ug/l | 25.0 | ND | 87 | 55-135 | | | |
| Naphthalene | 27.7 | 2.0 | ug/l | 25.0 | ND | 111 | 15-160 | | | |
| n-Propylbenzene | 28.2 | 1.0 | ug/l | 25.0 | ND | 113 | 80-130 | | | |
| Styrene | 27.2 | 1.0 | ug/l | 25.0 | ND | 109 | 60-135 | | | |
| 1,1,1,2-Tetrachloroethane | 25.2 | 1.0 | ug/l | 25.0 | ND | 101 | 80-135 | | | |
| 1,1,2,2-Tetrachloroethane | 24.2 | 2.0 | ug/l | 25.0 | ND | 97 | 35-150 | | | |
| Tetrachloroethene | 27.3 | 1.0 | ug/l | 25.0 | ND | 109 | 80-120 | | | |
| Toluene | 27.0 | 2.0 | ug/l | 25.0 | ND | 108 | 80-120 | | | |
| 1,2,3-Trichlorobenzene | 29.1 | 1.0 | ug/l | 25.0 | ND | 116 | 45-145 | | | |
| 1,2,4-Trichlorobenzene | 27.3 | 1.0 | ug/l | 25.0 | ND | 109 | 65-130 | | | |
| 1,1,1-Trichloroethane | 25.7 | 1.0 | ug/l | 25.0 | ND | 103 | 80-120 | | | |
| 1,1,2-Trichloroethane | 23.4 | 1.0 | ug/l | 25.0 | ND | 94 | 55-145 | | | |
| Trichloroethene | 28.2 | 1.0 | ug/l | 25.0 | 2.3 | 104 | 80-120 | | | |
| Trichlorofluoromethane | 24.4 | 4.0 | ug/l | 25.0 | ND | 98 | 70-145 | | | |
| 1,2,3-Trichloropropane | 22.4 | 1.0 | ug/l | 25.0 | ND | 90 | 20-160 | | | |
| 1,2,4-Trimethylbenzene | 28.1 | 1.0 | ug/l | 25.0 | ND | 112 | 70-135 | | | |
| 1,3,5-Trimethylbenzene | 28.1 | 1.0 | ug/l | 25.0 | ND | 112 | 80-125 | | | |
| Vinyl acetate | 24.3 | 5.0 | ug/l | 25.0 | ND | 97 | 25-130 | | | |
| Vinyl chloride | 53.5 | 1.0 | ug/l | 25.0 | 33 | 82 | 25-135 | | | |
| Xylenes, Total | 80.4 | 3.0 | ug/l | 75.0 | ND | 107 | 80-120 | | | |
| *Surrogate: Dibromofluoromethane* | *25.6* | | *ug/l* | *25.0* | | *102* | *80-120* | | | |

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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P2A0315 Extracted: 01/03/02** | | | | | | | | | | |
| **Matrix Spike Analyzed: 01/03/02 (P2A0315-MS1)** | | | | | **Source: PKL0391-03** | | | | | |
| *Surrogate: Toluene-d8* | *27.6* | | *ug/l* | *25.0* | | *110* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.7* | | *ug/l* | *25.0* | | *107* | *80-120* | | | |
| **Matrix Spike Dup Analyzed: 01/03/02 (P2A0315-MSD1)** | | | | | **Source: PKL0391-03** | | | | | |
| Acetone | ND | 20 | ug/l | 25.0 | ND | 62 | 5-200 | 7 | 20 | |
| **Benzene** | **27.6** | 1.0 | ug/l | 25.0 | ND | 110 | 80-120 | 0.7 | 80 | |
| **Bromobenzene** | **27.1** | 1.0 | ug/l | 25.0 | ND | 108 | 80-120 | 2 | 20 | |
| **Bromochloromethane** | **23.4** | 1.0 | ug/l | 25.0 | ND | 94 | 60-135 | 1 | 20 | |
| **Bromodichloromethane** | **25.0** | 1.0 | ug/l | 25.0 | ND | 100 | 80-120 | 0.8 | 20 | |
| **Bromoform** | **25.4** | 2.0 | ug/l | 25.0 | ND | 102 | 40-140 | 4 | 20 | |
| **Bromomethane** | **26.6** | 4.0 | ug/l | 25.0 | ND | 106 | 25-165 | 0.4 | 20 | |
| **2-Butanone (MEK)** | **17.6** | 10 | ug/l | 25.0 | ND | 70 | 10-160 | 3 | 20 | |
| **n-Butylbenzene** | **27.9** | 1.0 | ug/l | 25.0 | ND | 112 | 75-135 | 0.4 | 20 | |
| **sec-Butylbenzene** | **27.0** | 1.0 | ug/l | 25.0 | ND | 108 | 80-135 | 0.7 | 20 | |
| **tert-Butylbenzene** | **26.1** | 1.0 | ug/l | 25.0 | ND | 104 | 80-125 | 2 | 20 | |
| **Carbon Disulfide** | **25.1** | 5.0 | ug/l | 25.0 | ND | 100 | 20-120 | 0.4 | 20 | |
| **Carbon tetrachloride** | **26.3** | 1.0 | ug/l | 25.0 | ND | 105 | 80-145 | 0.4 | 20 | |
| **Chlorobenzene** | **29.0** | 1.0 | ug/l | 25.0 | 3.5 | 102 | 80-120 | 0.7 | 20 | |
| **Chloroethane** | **25.6** | 4.0 | ug/l | 25.0 | ND | 102 | 30-150 | 0.8 | 20 | |
| **Chloroform** | **25.5** | 1.0 | ug/l | 25.0 | ND | 102 | 80-125 | 2 | 20 | |
| **Chloromethane** | **23.0** | 4.0 | ug/l | 25.0 | ND | 92 | 15-140 | 0.9 | 20 | |
| **2-Chlorotoluene** | **27.3** | 1.0 | ug/l | 25.0 | ND | 109 | 80-125 | 0 | 20 | |
| **4-Chlorotoluene** | **26.8** | 1.0 | ug/l | 25.0 | ND | 107 | 80-125 | 0.4 | 20 | |
| **Dibromochloromethane** | **21.7** | 1.0 | ug/l | 25.0 | ND | 87 | 75-135 | 1 | 20 | |
| **1,2-Dibromo-3-chloropropane** | **21.0** | 1.0 | ug/l | 25.0 | ND | 84 | 25-185 | 4 | 20 | |
| **1,2-Dibromoethane (EDB)** | **23.6** | 1.0 | ug/l | 25.0 | ND | 94 | 45-145 | 2 | 20 | |
| **Dibromomethane** | **24.1** | 1.0 | ug/l | 25.0 | ND | 96 | 55-140 | 0.4 | 20 | |
| **1,2-Dichlorobenzene** | **27.7** | 1.0 | ug/l | 25.0 | 2.9 | 99 | 80-120 | 0.4 | 20 | |
| **1,3-Dichlorobenzene** | **25.3** | 1.0 | ug/l | 25.0 | ND | 101 | 80-120 | 0.8 | 20 | |
| **1,4-Dichlorobenzene** | **25.7** | 1.0 | ug/l | 25.0 | ND | 103 | 80-120 | 2 | 20 | |
| **Dichlorodifluoromethane** | **25.4** | 4.0 | ug/l | 25.0 | ND | 102 | 25-145 | 0.8 | 20 | |
| **1,1-Dichloroethane** | **26.0** | 1.0 | ug/l | 25.0 | ND | 104 | 75-120 | 4 | 20 | |
| **1,2-Dichloroethane** | **22.5** | 1.0 | ug/l | 25.0 | ND | 90 | 60-135 | 2 | 20 | |
| **1,1-Dichloroethene** | **25.9** | 2.0 | ug/l | 25.0 | ND | 104 | 55-120 | 0 | 20 | |
| **cis-1,2-Dichloroethene** | **67.4** | 1.0 | ug/l | 25.0 | 44 | 94 | 75-120 | 1 | 20 | |
| **trans-1,2-Dichloroethene** | **24.8** | 1.0 | ug/l | 25.0 | ND | 99 | 65-120 | 2 | 20 | |

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Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P2A0315 Extracted: 01/03/02** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 01/03/02 (P2A0315-MSD1)** | | | | | **Source: PKL0391-03** | | | | | |
| **1,2-Dichloropropane** | **25.2** | 1.0 | ug/l | 25.0 | ND | 101 | 80-125 | 0.4 | 20 | |
| **1,3-Dichloropropane** | **24.4** | 1.0 | ug/l | 25.0 | ND | 98 | 55-140 | 0.4 | 20 | |
| **2,2-Dichloropropane** | **25.2** | 1.0 | ug/l | 25.0 | ND | 101 | 45-165 | 2 | 20 | |
| **1,1-Dichloropropene** | **25.9** | 1.0 | ug/l | 25.0 | ND | 104 | 80-120 | 0 | 20 | |
| **cis-1,3-Dichloropropene** | **25.1** | 1.0 | ug/l | 25.0 | ND | 100 | 80-120 | 0.4 | 20 | |
| **trans-1,3-Dichloropropene** | **21.9** | 1.0 | ug/l | 25.0 | ND | 88 | 70-120 | 1 | 20 | |
| **Ethylbenzene** | **27.4** | 2.0 | ug/l | 25.0 | ND | 110 | 80-120 | 1 | 20 | |
| **Hexachlorobutadiene** | **26.2** | 1.0 | ug/l | 25.0 | ND | 105 | 80-135 | 6 | 20 | |
| **2-Hexanone** | **17.5** | 10 | ug/l | 25.0 | ND | 70 | 25-185 | 5 | 20 | |
| **Iodomethane** | **25.2** | 2.0 | ug/l | 25.0 | ND | 101 | 30-155 | 0.4 | 20 | |
| **Isopropylbenzene** | **27.3** | 1.0 | ug/l | 25.0 | ND | 109 | 80-125 | 0.4 | 20 | |
| **p-Isopropyltoluene** | **26.3** | 1.0 | ug/l | 25.0 | ND | 105 | 80-125 | 0.8 | 20 | |
| **Methylene chloride** | **23.9** | 5.0 | ug/l | 25.0 | ND | 96 | 55-125 | 0.8 | 20 | |
| **4-Methyl-2-pentanone (MIBK)** | **22.3** | 10 | ug/l | 25.0 | ND | 89 | 10-175 | 3 | 20 | |
| **Methyl-tert-butyl Ether (MTBE)** | **22.2** | 5.0 | ug/l | 25.0 | ND | 89 | 55-135 | 2 | 20 | |
| **Naphthalene** | **25.4** | 2.0 | ug/l | 25.0 | ND | 102 | 15-160 | 9 | 20 | |
| **n-Propylbenzene** | **28.4** | 1.0 | ug/l | 25.0 | ND | 114 | 80-130 | 0.7 | 20 | |
| **Styrene** | **26.0** | 1.0 | ug/l | 25.0 | ND | 104 | 60-135 | 5 | 20 | |
| **1,1,1,2-Tetrachloroethane** | **25.2** | 1.0 | ug/l | 25.0 | ND | 101 | 80-135 | 0 | 20 | |
| **1,1,2,2-Tetrachloroethane** | **25.2** | 2.0 | ug/l | 25.0 | ND | 101 | 35-150 | 4 | 20 | |
| **Tetrachloroethene** | **27.1** | 1.0 | ug/l | 25.0 | ND | 108 | 80-120 | 0.7 | 20 | |
| **Toluene** | **26.8** | 2.0 | ug/l | 25.0 | ND | 107 | 80-120 | 0.7 | 20 | |
| **1,2,3-Trichlorobenzene** | **26.4** | 1.0 | ug/l | 25.0 | ND | 106 | 45-145 | 10 | 20 | |
| **1,2,4-Trichlorobenzene** | **26.3** | 1.0 | ug/l | 25.0 | ND | 105 | 65-130 | 4 | 20 | |
| **1,1,1-Trichloroethane** | **25.5** | 1.0 | ug/l | 25.0 | ND | 102 | 80-120 | 0.8 | 20 | |
| **1,1,2-Trichloroethane** | **23.8** | 1.0 | ug/l | 25.0 | ND | 95 | 55-145 | 2 | 20 | |
| **Trichloroethene** | **28.1** | 1.0 | ug/l | 25.0 | 2.3 | 103 | 80-120 | 0.4 | 20 | |
| **Trichlorofluoromethane** | **24.6** | 4.0 | ug/l | 25.0 | ND | 98 | 70-145 | 0.8 | 20 | |
| **1,2,3-Trichloropropane** | **23.3** | 1.0 | ug/l | 25.0 | ND | 93 | 20-160 | 4 | 20 | |
| **1,2,4-Trimethylbenzene** | **27.4** | 1.0 | ug/l | 25.0 | ND | 110 | 70-135 | 3 | 20 | |
| **1,3,5-Trimethylbenzene** | **27.7** | 1.0 | ug/l | 25.0 | ND | 111 | 80-125 | 1 | 20 | |
| **Vinyl acetate** | **24.6** | 5.0 | ug/l | 25.0 | ND | 98 | 25-130 | 1 | 20 | |
| **Vinyl chloride** | **51.8** | 1.0 | ug/l | 25.0 | 33 | 75 | 25-135 | 3 | 20 | |
| **Xylenes, Total** | **79.5** | 3.0 | ug/l | 75.0 | ND | 106 | 80-120 | 1 | 20 | |
| *Surrogate: Dibromofluoromethane* | *25.6* | | *ug/l* | *25.0* | | *102* | *80-120* | | | |

Debbie Fuller
Project Manager

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P2A0315 Extracted: 01/03/02** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 01/03/02 (P2A0315-MSD1)** | | | | | **Source: PKL0391-03** | | | | | |
| *Surrogate: Toluene-d8* | *27.6* | | *ug/l* | *25.0* | | *110* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.8* | | *ug/l* | *25.0* | | *107* | *80-120* | | | |
| **Batch: P2A0401 Extracted: 01/03/02** | | | | | | | | | | |
| **Blank Analyzed: 01/03/02 (P2A0401-BLK1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | N2 |
| Benzene | ND | 1.0 | ug/l | | | | | | | |
| Bromobenzene | ND | 1.0 | ug/l | | | | | | | |
| Bromochloromethane | ND | 1.0 | ug/l | | | | | | | |
| Bromodichloromethane | ND | 1.0 | ug/l | | | | | | | |
| Bromoform | ND | 2.0 | ug/l | | | | | | | |
| Bromomethane | ND | 4.0 | ug/l | | | | | | | |
| 2-Butanone (MEK) | ND | 10 | ug/l | | | | | | | |
| n-Butylbenzene | ND | 1.0 | ug/l | | | | | | | |
| sec-Butylbenzene | ND | 1.0 | ug/l | | | | | | | |
| tert-Butylbenzene | ND | 1.0 | ug/l | | | | | | | |
| Carbon Disulfide | ND | 5.0 | ug/l | | | | | | | |
| Carbon tetrachloride | ND | 1.0 | ug/l | | | | | | | |
| Chlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| Chloroethane | ND | 4.0 | ug/l | | | | | | | |
| Chloroform | ND | 1.0 | ug/l | | | | | | | |
| Chloromethane | ND | 4.0 | ug/l | | | | | | | |
| 2-Chlorotoluene | ND | 1.0 | ug/l | | | | | | | |
| 4-Chlorotoluene | ND | 1.0 | ug/l | | | | | | | |
| Dibromochloromethane | ND | 1.0 | ug/l | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | ug/l | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | ug/l | | | | | | | |
| Dibromomethane | ND | 1.0 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| Dichlorodifluoromethane | ND | 4.0 | ug/l | | | | | | | |
| 1,1-Dichloroethane | ND | 1.0 | ug/l | | | | | | | |
| 1,2-Dichloroethane | ND | 1.0 | ug/l | | | | | | | |

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Law Engineering
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Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P2A0401 Extracted: 01/03/02** | | | | | | | | | | |
| **Blank Analyzed: 01/03/02 (P2A0401-BLK1)** | | | | | | | | | | |
| 1,1-Dichloroethene | ND | 2.0 | ug/l | | | | | | | |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/l | | | | | | | |
| trans-1,2-Dichloroethene | ND | 1.0 | ug/l | | | | | | | |
| 1,2-Dichloropropane | ND | 1.0 | ug/l | | | | | | | |
| 1,3-Dichloropropane | ND | 1.0 | ug/l | | | | | | | |
| 2,2-Dichloropropane | ND | 1.0 | ug/l | | | | | | | |
| 1,1-Dichloropropene | ND | 1.0 | ug/l | | | | | | | |
| cis-1,3-Dichloropropene | ND | 1.0 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 1.0 | ug/l | | | | | | | |
| Ethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 1.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 10 | ug/l | | | | | | | |
| Iodomethane | ND | 2.0 | ug/l | | | | | | | |
| Isopropylbenzene | ND | 1.0 | ug/l | | | | | | | |
| p-Isopropyltoluene | ND | 1.0 | ug/l | | | | | | | |
| Methylene chloride | ND | 5.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 5.0 | ug/l | | | | | | | |
| Naphthalene | ND | 2.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 1.0 | ug/l | | | | | | | |
| Styrene | ND | 1.0 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/l | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 1.0 | ug/l | | | | | | | |
| Toluene | ND | 2.0 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/l | | | | | | | |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/l | | | | | | | |
| Trichloroethene | ND | 1.0 | ug/l | | | | | | | |
| Trichlorofluoromethane | ND | 4.0 | ug/l | | | | | | | |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/l | | | | | | | |



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Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

METHOD BLANK QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P2A0401 Extracted: 01/03/02** | | | | | | | | | | |
| **Blank Analyzed: 01/03/02 (P2A0401-BLK1)** | | | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/l | | | | | | | |
| Vinyl acetate | ND | 5.0 | ug/l | | | | | | | |
| Vinyl chloride | ND | 1.0 | ug/l | | | | | | | |
| Xylenes, Total | ND | 3.0 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *25.3* | | *ug/l* | *25.0* | | *101* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *28.0* | | *ug/l* | *25.0* | | *112* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.5* | | *ug/l* | *25.0* | | *106* | *80-120* | | | |
| **LCS Analyzed: 01/03/02 (P2A0401-BS1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | 25.0 | | 56 | 30-200 | | | N2 |
| **Benzene** | **27.2** | 1.0 | ug/l | 25.0 | | 109 | 80-120 | | | |
| **Bromobenzene** | **27.9** | 1.0 | ug/l | 25.0 | | 112 | 80-120 | | | |
| **Bromochloromethane** | **24.1** | 1.0 | ug/l | 25.0 | | 96 | 80-120 | | | |
| **Bromodichloromethane** | **24.3** | 1.0 | ug/l | 25.0 | | 97 | 80-130 | | | |
| **Bromoform** | **23.9** | 2.0 | ug/l | 25.0 | | 96 | 60-140 | | | |
| **Bromomethane** | **26.8** | 4.0 | ug/l | 25.0 | | 107 | 60-150 | | | |
| **2-Butanone (MEK)** | **15.8** | 10 | ug/l | 25.0 | | 63 | 30-185 | | | |
| **n-Butylbenzene** | **27.3** | 1.0 | ug/l | 25.0 | | 109 | 75-130 | | | |
| **sec-Butylbenzene** | **27.3** | 1.0 | ug/l | 25.0 | | 109 | 80-125 | | | |
| **tert-Butylbenzene** | **26.8** | 1.0 | ug/l | 25.0 | | 107 | 80-120 | | | |
| **Carbon Disulfide** | **24.8** | 5.0 | ug/l | 25.0 | | 99 | 65-120 | | | |
| **Carbon tetrachloride** | **26.3** | 1.0 | ug/l | 25.0 | | 105 | 75-150 | | | |
| **Chlorobenzene** | **25.4** | 1.0 | ug/l | 25.0 | | 102 | 80-120 | | | |
| **Chloroethane** | **27.7** | 4.0 | ug/l | 25.0 | | 111 | 80-125 | | | |
| **Chloroform** | **25.1** | 1.0 | ug/l | 25.0 | | 100 | 80-120 | | | |
| **Chloromethane** | **24.9** | 4.0 | ug/l | 25.0 | | 100 | 60-125 | | | |
| **2-Chlorotoluene** | **28.0** | 1.0 | ug/l | 25.0 | | 112 | 80-120 | | | |
| **4-Chlorotoluene** | **27.5** | 1.0 | ug/l | 25.0 | | 110 | 80-120 | | | |
| **Dibromochloromethane** | **20.8** | 1.0 | ug/l | 25.0 | | 83 | 70-150 | | | |
| **1,2-Dibromo-3-chloropropane** | **18.6** | 1.0 | ug/l | 25.0 | | 74 | 50-145 | | | |
| **1,2-Dibromoethane (EDB)** | **22.0** | 1.0 | ug/l | 25.0 | | 88 | 75-120 | | | |
| **Dibromomethane** | **22.9** | 1.0 | ug/l | 25.0 | | 92 | 80-120 | | | |
| **1,2-Dichlorobenzene** | **24.9** | 1.0 | ug/l | 25.0 | | 100 | 80-120 | | | |
| **1,3-Dichlorobenzene** | **25.6** | 1.0 | ug/l | 25.0 | | 102 | 80-120 | | | |
| **1,4-Dichlorobenzene** | **25.3** | 1.0 | ug/l | 25.0 | | 101 | 80-120 | | | |
| **Dichlorodifluoromethane** | **24.8** | 4.0 | ug/l | 25.0 | | 99 | 25-140 | | | |

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Project Manager

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Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P2A0401 Extracted: 01/03/02** | | | | | | | | | | |
| **LCS Analyzed: 01/03/02 (P2A0401-BS1)** | | | | | | | | | | |
| 1,1-Dichloroethane | 25.8 | 1.0 | ug/l | 25.0 | | 103 | 80-120 | | | |
| 1,2-Dichloroethane | 22.2 | 1.0 | ug/l | 25.0 | | 89 | 80-120 | | | |
| 1,1-Dichloroethene | 26.3 | 2.0 | ug/l | 25.0 | | 105 | 80-120 | | | |
| cis-1,2-Dichloroethene | 26.3 | 1.0 | ug/l | 25.0 | | 105 | 80-120 | | | |
| trans-1,2-Dichloroethene | 25.0 | 1.0 | ug/l | 25.0 | | 100 | 80-120 | | | |
| 1,2-Dichloropropane | 25.4 | 1.0 | ug/l | 25.0 | | 102 | 80-120 | | | |
| 1,3-Dichloropropane | 24.0 | 1.0 | ug/l | 25.0 | | 96 | 80-120 | | | |
| 2,2-Dichloropropane | 22.4 | 1.0 | ug/l | 25.0 | | 90 | 75-135 | | | |
| 1,1-Dichloropropene | 25.7 | 1.0 | ug/l | 25.0 | | 103 | 80-120 | | | |
| cis-1,3-Dichloropropene | 24.4 | 1.0 | ug/l | 25.0 | | 98 | 80-120 | | | |
| trans-1,3-Dichloropropene | 20.4 | 1.0 | ug/l | 25.0 | | 82 | 80-120 | | | |
| Ethylbenzene | 27.6 | 2.0 | ug/l | 25.0 | | 110 | 80-120 | | | |
| Hexachlorobutadiene | 24.9 | 1.0 | ug/l | 25.0 | | 100 | 60-145 | | | |
| 2-Hexanone | 15.4 | 10 | ug/l | 25.0 | | 62 | 50-170 | | | |
| Iodomethane | 26.2 | 2.0 | ug/l | 25.0 | | 105 | 40-155 | | | |
| Isopropylbenzene | 28.6 | 1.0 | ug/l | 25.0 | | 114 | 80-120 | | | |
| p-Isopropyltoluene | 26.3 | 1.0 | ug/l | 25.0 | | 105 | 80-120 | | | |
| Methylene chloride | 26.0 | 5.0 | ug/l | 25.0 | | 104 | 80-120 | | | |
| 4-Methyl-2-pentanone (MIBK) | 19.6 | 10 | ug/l | 25.0 | | 78 | 70-140 | | | |
| Methyl-tert-butyl Ether (MTBE) | 21.1 | 5.0 | ug/l | 25.0 | | 84 | 75-135 | | | |
| Naphthalene | 25.0 | 2.0 | ug/l | 25.0 | | 100 | 70-130 | | | |
| n-Propylbenzene | 29.0 | 1.0 | ug/l | 25.0 | | 116 | 80-120 | | | |
| Styrene | 27.1 | 1.0 | ug/l | 25.0 | | 108 | 80-120 | | | |
| 1,1,1,2-Tetrachloroethane | 25.7 | 1.0 | ug/l | 25.0 | | 103 | 65-150 | | | |
| 1,1,2,2-Tetrachloroethane | 23.9 | 2.0 | ug/l | 25.0 | | 96 | 70-130 | | | |
| Tetrachloroethene | 27.2 | 1.0 | ug/l | 25.0 | | 109 | 80-125 | | | |
| Toluene | 27.4 | 2.0 | ug/l | 25.0 | | 110 | 80-120 | | | |
| 1,2,3-Trichlorobenzene | 26.4 | 1.0 | ug/l | 25.0 | | 106 | 75-125 | | | |
| 1,2,4-Trichlorobenzene | 25.2 | 1.0 | ug/l | 25.0 | | 101 | 80-120 | | | |
| 1,1,1-Trichloroethane | 24.8 | 1.0 | ug/l | 25.0 | | 99 | 80-120 | | | |
| 1,1,2-Trichloroethane | 22.3 | 1.0 | ug/l | 25.0 | | 89 | 80-120 | | | |
| Trichloroethene | 25.2 | 1.0 | ug/l | 25.0 | | 101 | 80-120 | | | |
| Trichlorofluoromethane | 23.2 | 4.0 | ug/l | 25.0 | | 93 | 75-150 | | | |
| 1,2,3-Trichloropropane | 22.5 | 1.0 | ug/l | 25.0 | | 90 | 65-135 | | | |
| 1,2,4-Trimethylbenzene | 28.9 | 1.0 | ug/l | 25.0 | | 116 | 80-120 | | | |

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Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P2A0401 Extracted: 01/03/02** | | | | | | | | | | |
| **LCS Analyzed: 01/03/02 (P2A0401-BS1)** | | | | | | | | | | |
| **1,3,5-Trimethylbenzene** | **28.7** | 1.0 | ug/l | 25.0 | | 115 | 80-120 | | | |
| **Vinyl acetate** | **20.9** | 5.0 | ug/l | 25.0 | | 84 | 40-120 | | | |
| **Vinyl chloride** | **25.8** | 1.0 | ug/l | 25.0 | | 103 | 80-120 | | | |
| **Xylenes, Total** | **81.5** | 3.0 | ug/l | 75.0 | | 109 | 80-120 | | | |
| *Surrogate: Dibromofluoromethane* | *25.8* | | *ug/l* | *25.0* | | *103* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *27.7* | | *ug/l* | *25.0* | | *111* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.1* | | *ug/l* | *25.0* | | *104* | *80-120* | | | |
| **LCS Dup Analyzed: 01/03/02 (P2A0401-BSD1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | 25.0 | | 64 | 30-200 | 13 | 20 | N2 |
| **Benzene** | **27.8** | 1.0 | ug/l | 25.0 | | 111 | 80-120 | 2 | 20 | |
| **Bromobenzene** | **27.8** | 1.0 | ug/l | 25.0 | | 111 | 80-120 | 0.4 | 20 | |
| **Bromochloromethane** | **24.3** | 1.0 | ug/l | 25.0 | | 97 | 80-120 | 0.8 | 20 | |
| **Bromodichloromethane** | **24.9** | 1.0 | ug/l | 25.0 | | 100 | 80-130 | 2 | 20 | |
| **Bromoform** | **24.9** | 2.0 | ug/l | 25.0 | | 100 | 60-140 | 4 | 20 | |
| **Bromomethane** | **26.9** | 4.0 | ug/l | 25.0 | | 108 | 60-150 | 0.4 | 20 | |
| **2-Butanone (MEK)** | **16.4** | 10 | ug/l | 25.0 | | 66 | 30-185 | 4 | 20 | |
| **n-Butylbenzene** | **27.9** | 1.0 | ug/l | 25.0 | | 112 | 75-130 | 2 | 20 | |
| **sec-Butylbenzene** | **27.5** | 1.0 | ug/l | 25.0 | | 110 | 80-125 | 0.7 | 20 | |
| **tert-Butylbenzene** | **26.9** | 1.0 | ug/l | 25.0 | | 108 | 80-120 | 0.4 | 20 | |
| **Carbon Disulfide** | **25.4** | 5.0 | ug/l | 25.0 | | 102 | 65-120 | 2 | 20 | |
| **Carbon tetrachloride** | **26.9** | 1.0 | ug/l | 25.0 | | 108 | 75-150 | 2 | 20 | |
| **Chlorobenzene** | **25.7** | 1.0 | ug/l | 25.0 | | 103 | 80-120 | 1 | 20 | |
| **Chloroethane** | **27.7** | 4.0 | ug/l | 25.0 | | 111 | 80-125 | 0 | 20 | |
| **Chloroform** | **25.6** | 1.0 | ug/l | 25.0 | | 102 | 80-120 | 2 | 20 | |
| **Chloromethane** | **24.7** | 4.0 | ug/l | 25.0 | | 99 | 60-125 | 0.8 | 20 | |
| **2-Chlorotoluene** | **28.2** | 1.0 | ug/l | 25.0 | | 113 | 80-120 | 0.7 | 20 | |
| **4-Chlorotoluene** | **27.9** | 1.0 | ug/l | 25.0 | | 112 | 80-120 | 1 | 20 | |
| **Dibromochloromethane** | **21.6** | 1.0 | ug/l | 25.0 | | 86 | 70-150 | 4 | 20 | |
| **1,2-Dibromo-3-chloropropane** | **20.1** | 1.0 | ug/l | 25.0 | | 80 | 50-145 | 8 | 20 | |
| **1,2-Dibromoethane (EDB)** | **23.0** | 1.0 | ug/l | 25.0 | | 92 | 75-120 | 4 | 20 | |
| **Dibromomethane** | **24.2** | 1.0 | ug/l | 25.0 | | 97 | 80-120 | 6 | 20 | |
| **1,2-Dichlorobenzene** | **25.3** | 1.0 | ug/l | 25.0 | | 101 | 80-120 | 2 | 20 | |
| **1,3-Dichlorobenzene** | **25.7** | 1.0 | ug/l | 25.0 | | 103 | 80-120 | 0.4 | 20 | |
| **1,4-Dichlorobenzene** | **25.4** | 1.0 | ug/l | 25.0 | | 102 | 80-120 | 0.4 | 20 | |
| **Dichlorodifluoromethane** | **24.3** | 4.0 | ug/l | 25.0 | | 97 | 25-140 | 2 | 20 | |

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130

Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P2A0401 Extracted: 01/03/02** | | | | | | | | | | |
| **LCS Dup Analyzed: 01/03/02 (P2A0401-BSD1)** | | | | | | | | | | |
| 1,1-Dichloroethane | 26.2 | 1.0 | ug/l | 25.0 | | 105 | 80-120 | 2 | 20 | |
| 1,2-Dichloroethane | 22.9 | 1.0 | ug/l | 25.0 | | 92 | 80-120 | 3 | 20 | |
| 1,1-Dichloroethene | 27.0 | 2.0 | ug/l | 25.0 | | 108 | 80-120 | 3 | 20 | |
| cis-1,2-Dichloroethene | 26.9 | 1.0 | ug/l | 25.0 | | 108 | 80-120 | 2 | 20 | |
| trans-1,2-Dichloroethene | 25.3 | 1.0 | ug/l | 25.0 | | 101 | 80-120 | 1 | 20 | |
| 1,2-Dichloropropane | 26.0 | 1.0 | ug/l | 25.0 | | 104 | 80-120 | 2 | 20 | |
| 1,3-Dichloropropane | 25.0 | 1.0 | ug/l | 25.0 | | 100 | 80-120 | 4 | 20 | |
| 2,2-Dichloropropane | 23.0 | 1.0 | ug/l | 25.0 | | 92 | 75-135 | 3 | 20 | |
| 1,1-Dichloropropene | 26.3 | 1.0 | ug/l | 25.0 | | 105 | 80-120 | 2 | 20 | |
| cis-1,3-Dichloropropene | 25.2 | 1.0 | ug/l | 25.0 | | 101 | 80-120 | 3 | 20 | |
| trans-1,3-Dichloropropene | 21.5 | 1.0 | ug/l | 25.0 | | 86 | 80-120 | 5 | 20 | |
| Ethylbenzene | 27.7 | 2.0 | ug/l | 25.0 | | 111 | 80-120 | 0.4 | 20 | |
| Hexachlorobutadiene | 24.5 | 1.0 | ug/l | 25.0 | | 98 | 60-145 | 2 | 20 | |
| 2-Hexanone | 16.6 | 10 | ug/l | 25.0 | | 66 | 50-170 | 8 | 20 | |
| Iodomethane | 26.8 | 2.0 | ug/l | 25.0 | | 107 | 40-155 | 2 | 20 | |
| Isopropylbenzene | 28.8 | 1.0 | ug/l | 25.0 | | 115 | 80-120 | 0.7 | 20 | |
| p-Isopropyltoluene | 26.4 | 1.0 | ug/l | 25.0 | | 106 | 80-120 | 0.4 | 20 | |
| Methylene chloride | 26.5 | 5.0 | ug/l | 25.0 | | 106 | 80-120 | 2 | 20 | |
| 4-Methyl-2-pentanone (MIBK) | 21.2 | 10 | ug/l | 25.0 | | 85 | 70-140 | 8 | 20 | |
| Methyl-tert-butyl Ether (MTBE) | 22.6 | 5.0 | ug/l | 25.0 | | 90 | 75-135 | 7 | 20 | |
| Naphthalene | 26.7 | 2.0 | ug/l | 25.0 | | 107 | 70-130 | 7 | 20 | |
| n-Propylbenzene | 29.3 | 1.0 | ug/l | 25.0 | | 117 | 80-120 | 1 | 20 | |
| Styrene | 27.6 | 1.0 | ug/l | 25.0 | | 110 | 80-120 | 2 | 20 | |
| 1,1,1,2-Tetrachloroethane | 25.7 | 1.0 | ug/l | 25.0 | | 103 | 65-150 | 0 | 20 | |
| 1,1,2,2-Tetrachloroethane | 24.9 | 2.0 | ug/l | 25.0 | | 100 | 70-130 | 4 | 20 | |
| Tetrachloroethene | 27.7 | 1.0 | ug/l | 25.0 | | 111 | 80-125 | 2 | 20 | |
| Toluene | 27.8 | 2.0 | ug/l | 25.0 | | 111 | 80-120 | 1 | 20 | |
| 1,2,3-Trichlorobenzene | 27.0 | 1.0 | ug/l | 25.0 | | 108 | 75-125 | 2 | 20 | |
| 1,2,4-Trichlorobenzene | 25.9 | 1.0 | ug/l | 25.0 | | 104 | 80-120 | 3 | 20 | |
| 1,1,1-Trichloroethane | 25.3 | 1.0 | ug/l | 25.0 | | 101 | 80-120 | 2 | 20 | |
| 1,1,2-Trichloroethane | 23.4 | 1.0 | ug/l | 25.0 | | 94 | 80-120 | 5 | 20 | |
| Trichloroethene | 25.8 | 1.0 | ug/l | 25.0 | | 103 | 80-120 | 2 | 20 | |
| Trichlorofluoromethane | 24.6 | 4.0 | ug/l | 25.0 | | 98 | 75-150 | 6 | 20 | |
| 1,2,3-Trichloropropane | 23.3 | 1.0 | ug/l | 25.0 | | 93 | 65-135 | 3 | 20 | |
| 1,2,4-Trimethylbenzene | 28.7 | 1.0 | ug/l | 25.0 | | 115 | 80-120 | 0.7 | 20 | |

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Project Manager

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P2A0401 Extracted: 01/03/02** | | | | | | | | | | |
| **LCS Dup Analyzed: 01/03/02 (P2A0401-BSD1)** | | | | | | | | | | |
| **1,3,5-Trimethylbenzene** | **29.0** | 1.0 | ug/l | 25.0 | | 116 | 80-120 | 1 | 20 | |
| **Vinyl acetate** | **22.4** | 5.0 | ug/l | 25.0 | | 90 | 40-120 | 7 | 20 | |
| **Vinyl chloride** | **25.7** | 1.0 | ug/l | 25.0 | | 103 | 80-120 | 0.4 | 20 | |
| **Xylenes, Total** | **81.7** | 3.0 | ug/l | 75.0 | | 109 | 80-120 | 0.2 | 20 | |
| *Surrogate: Dibromofluoromethane* | *25.7* | | *ug/l* | *25.0* | | *103* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *27.8* | | *ug/l* | *25.0* | | *111* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.4* | | *ug/l* | *25.0* | | *106* | *80-120* | | | |
| **Matrix Spike Analyzed: 01/03/02 (P2A0401-MS1)** | | | | | **Source: PKL0395-03** | | | | | |
| Acetone | ND | 20 | ug/l | 25.0 | ND | 70 | 5-200 | | | N2 |
| **Benzene** | **26.7** | 1.0 | ug/l | 25.0 | ND | 107 | 80-120 | | | |
| **Bromobenzene** | **26.3** | 1.0 | ug/l | 25.0 | ND | 105 | 80-120 | | | |
| **Bromochloromethane** | **25.6** | 1.0 | ug/l | 25.0 | ND | 102 | 60-135 | | | |
| **Bromodichloromethane** | **25.2** | 1.0 | ug/l | 25.0 | ND | 101 | 80-120 | | | |
| **Bromoform** | **26.1** | 2.0 | ug/l | 25.0 | ND | 104 | 40-140 | | | |
| **Bromomethane** | **26.4** | 4.0 | ug/l | 25.0 | ND | 106 | 25-165 | | | |
| **2-Butanone (MEK)** | **21.2** | 10 | ug/l | 25.0 | ND | 85 | 10-160 | | | |
| **n-Butylbenzene** | **25.1** | 1.0 | ug/l | 25.0 | ND | 100 | 75-135 | | | |
| **sec-Butylbenzene** | **24.7** | 1.0 | ug/l | 25.0 | ND | 99 | 80-135 | | | |
| **tert-Butylbenzene** | **24.1** | 1.0 | ug/l | 25.0 | ND | 96 | 80-125 | | | |
| **Carbon Disulfide** | **23.8** | 5.0 | ug/l | 25.0 | ND | 95 | 20-120 | | | |
| **Carbon tetrachloride** | **24.4** | 1.0 | ug/l | 25.0 | ND | 98 | 80-145 | | | |
| **Chlorobenzene** | **24.6** | 1.0 | ug/l | 25.0 | ND | 98 | 80-120 | | | |
| **Chloroethane** | **26.9** | 4.0 | ug/l | 25.0 | ND | 108 | 30-150 | | | |
| **Chloroform** | **27.1** | 1.0 | ug/l | 25.0 | ND | 108 | 80-125 | | | |
| **Chloromethane** | **23.4** | 4.0 | ug/l | 25.0 | ND | 94 | 15-140 | | | |
| **2-Chlorotoluene** | **25.8** | 1.0 | ug/l | 25.0 | ND | 103 | 80-125 | | | |
| **4-Chlorotoluene** | **25.4** | 1.0 | ug/l | 25.0 | ND | 102 | 80-125 | | | |
| **Dibromochloromethane** | **22.9** | 1.0 | ug/l | 25.0 | ND | 92 | 75-135 | | | |
| **1,2-Dibromo-3-chloropropane** | **23.3** | 1.0 | ug/l | 25.0 | ND | 93 | 25-185 | | | |
| **1,2-Dibromoethane (EDB)** | **25.2** | 1.0 | ug/l | 25.0 | ND | 101 | 45-145 | | | |
| **Dibromomethane** | **25.9** | 1.0 | ug/l | 25.0 | ND | 104 | 55-140 | | | |
| **1,2-Dichlorobenzene** | **24.3** | 1.0 | ug/l | 25.0 | ND | 97 | 80-120 | | | |
| **1,3-Dichlorobenzene** | **24.2** | 1.0 | ug/l | 25.0 | ND | 97 | 80-120 | | | |
| **1,4-Dichlorobenzene** | **24.3** | 1.0 | ug/l | 25.0 | ND | 97 | 80-120 | | | |
| **Dichlorodifluoromethane** | **22.9** | 4.0 | ug/l | 25.0 | ND | 92 | 25-145 | | | |

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Project Manager

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4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130

Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P2A0401 Extracted: 01/03/02** | | | | | | | | | | |
| **Matrix Spike Analyzed: 01/03/02 (P2A0401-MS1)** | | | | | **Source: PKL0395-03** | | | | | |
| 1,1-Dichloroethane | 27.6 | 1.0 | ug/l | 25.0 | 2.5 | 100 | 75-120 | | | |
| 1,2-Dichloroethane | 24.5 | 1.0 | ug/l | 25.0 | ND | 98 | 60-135 | | | |
| 1,1-Dichloroethene | 26.6 | 2.0 | ug/l | 25.0 | 2.5 | 96 | 55-120 | | | |
| cis-1,2-Dichloroethene | 26.9 | 1.0 | ug/l | 25.0 | ND | 108 | 75-120 | | | |
| trans-1,2-Dichloroethene | 24.2 | 1.0 | ug/l | 25.0 | ND | 97 | 65-120 | | | |
| 1,2-Dichloropropane | 25.3 | 1.0 | ug/l | 25.0 | ND | 101 | 80-125 | | | |
| 1,3-Dichloropropane | 26.3 | 1.0 | ug/l | 25.0 | ND | 105 | 55-140 | | | |
| 2,2-Dichloropropane | 23.5 | 1.0 | ug/l | 25.0 | ND | 94 | 45-165 | | | |
| 1,1-Dichloropropene | 24.5 | 1.0 | ug/l | 25.0 | ND | 98 | 80-120 | | | |
| cis-1,3-Dichloropropene | 25.8 | 1.0 | ug/l | 25.0 | ND | 103 | 80-120 | | | |
| trans-1,3-Dichloropropene | 23.0 | 1.0 | ug/l | 25.0 | ND | 92 | 70-120 | | | |
| Ethylbenzene | 26.2 | 2.0 | ug/l | 25.0 | ND | 105 | 80-120 | | | |
| Hexachlorobutadiene | 22.7 | 1.0 | ug/l | 25.0 | ND | 91 | 80-135 | | | |
| 2-Hexanone | 20.6 | 10 | ug/l | 25.0 | ND | 82 | 25-185 | | | |
| Iodomethane | 26.0 | 2.0 | ug/l | 25.0 | ND | 104 | 30-155 | | | |
| Isopropylbenzene | 25.4 | 1.0 | ug/l | 25.0 | ND | 102 | 80-125 | | | |
| p-Isopropyltoluene | 23.3 | 1.0 | ug/l | 25.0 | ND | 93 | 80-125 | | | |
| Methylene chloride | 24.8 | 5.0 | ug/l | 25.0 | ND | 99 | 55-125 | | | |
| 4-Methyl-2-pentanone (MIBK) | 27.2 | 10 | ug/l | 25.0 | ND | 109 | 10-175 | | | |
| Methyl-tert-butyl Ether (MTBE) | 26.2 | 5.0 | ug/l | 25.0 | ND | 105 | 55-135 | | | |
| Naphthalene | 27.5 | 2.0 | ug/l | 25.0 | ND | 110 | 15-160 | | | |
| n-Propylbenzene | 26.0 | 1.0 | ug/l | 25.0 | ND | 104 | 80-130 | | | |
| Styrene | 17.8 | 1.0 | ug/l | 25.0 | ND | 71 | 60-135 | | | |
| 1,1,1,2-Tetrachloroethane | 25.5 | 1.0 | ug/l | 25.0 | ND | 102 | 80-135 | | | |
| 1,1,2,2-Tetrachloroethane | 28.0 | 2.0 | ug/l | 25.0 | ND | 112 | 35-150 | | | |
| Tetrachloroethene | 44.4 | 1.0 | ug/l | 25.0 | 21 | 94 | 80-120 | | | |
| Toluene | 26.6 | 2.0 | ug/l | 25.0 | ND | 106 | 80-120 | | | |
| 1,2,3-Trichlorobenzene | 27.8 | 1.0 | ug/l | 25.0 | ND | 111 | 45-145 | | | |
| 1,2,4-Trichlorobenzene | 26.0 | 1.0 | ug/l | 25.0 | ND | 104 | 65-130 | | | |
| 1,1,1-Trichloroethane | 24.1 | 1.0 | ug/l | 25.0 | ND | 96 | 80-120 | | | |
| 1,1,2-Trichloroethane | 26.0 | 1.0 | ug/l | 25.0 | ND | 104 | 55-145 | | | |
| Trichloroethene | 25.8 | 1.0 | ug/l | 25.0 | 1.1 | 99 | 80-120 | | | |
| Trichlorofluoromethane | 21.8 | 4.0 | ug/l | 25.0 | ND | 87 | 70-145 | | | |
| 1,2,3-Trichloropropane | 26.5 | 1.0 | ug/l | 25.0 | ND | 106 | 20-160 | | | |
| 1,2,4-Trimethylbenzene | 21.7 | 1.0 | ug/l | 25.0 | ND | 87 | 70-135 | | | |

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Project Manager

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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

## METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P2A0401 Extracted: 01/03/02** | | | | | | | | | | |
| **Matrix Spike Analyzed: 01/03/02 (P2A0401-MS1)** | | | | | Source: PKL0395-03 | | | | | |
| **1,3,5-Trimethylbenzene** | **24.5** | 1.0 | ug/l | 25.0 | ND | 98 | 80-125 | | | |
| **Vinyl acetate** | **26.0** | 5.0 | ug/l | 25.0 | ND | 104 | 25-130 | | | |
| **Vinyl chloride** | **24.1** | 1.0 | ug/l | 25.0 | ND | 96 | 25-135 | | | |
| **Xylenes, Total** | **76.3** | 3.0 | ug/l | 75.0 | ND | 102 | 80-120 | | | |
| *Surrogate: Dibromofluoromethane* | *26.9* | | *ug/l* | *25.0* | | *108* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *27.8* | | *ug/l* | *25.0* | | *111* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.6* | | *ug/l* | *25.0* | | *106* | *80-120* | | | |
| **Matrix Spike Dup Analyzed: 01/03/02 (P2A0401-MSD1)** | | | | | Source: PKL0395-03 | | | | | |
| Acetone | ND | 20 | ug/l | 25.0 | ND | 65 | 5-200 | 7 | 20 | N2 |
| **Benzene** | **27.2** | 1.0 | ug/l | 25.0 | ND | 109 | 80-120 | 2 | 80 | |
| **Bromobenzene** | **27.2** | 1.0 | ug/l | 25.0 | ND | 109 | 80-120 | 3 | 20 | |
| **Bromochloromethane** | **25.3** | 1.0 | ug/l | 25.0 | ND | 101 | 60-135 | 1 | 20 | |
| **Bromodichloromethane** | **25.4** | 1.0 | ug/l | 25.0 | ND | 102 | 80-120 | 0.8 | 20 | |
| **Bromoform** | **26.4** | 2.0 | ug/l | 25.0 | ND | 106 | 40-140 | 1 | 20 | |
| **Bromomethane** | **26.4** | 4.0 | ug/l | 25.0 | ND | 106 | 25-165 | 0 | 20 | |
| **2-Butanone (MEK)** | **19.8** | 10 | ug/l | 25.0 | ND | 79 | 10-160 | 7 | 20 | |
| **n-Butylbenzene** | **26.7** | 1.0 | ug/l | 25.0 | ND | 107 | 75-135 | 6 | 20 | |
| **sec-Butylbenzene** | **26.0** | 1.0 | ug/l | 25.0 | ND | 104 | 80-135 | 5 | 20 | |
| **tert-Butylbenzene** | **25.3** | 1.0 | ug/l | 25.0 | ND | 101 | 80-125 | 5 | 20 | |
| **Carbon Disulfide** | **24.5** | 5.0 | ug/l | 25.0 | ND | 98 | 20-120 | 3 | 20 | |
| **Carbon tetrachloride** | **25.4** | 1.0 | ug/l | 25.0 | ND | 102 | 80-145 | 4 | 20 | |
| **Chlorobenzene** | **25.4** | 1.0 | ug/l | 25.0 | ND | 102 | 80-120 | 3 | 20 | |
| **Chloroethane** | **27.2** | 4.0 | ug/l | 25.0 | ND | 109 | 30-150 | 1 | 20 | |
| **Chloroform** | **27.1** | 1.0 | ug/l | 25.0 | ND | 108 | 80-125 | 0 | 20 | |
| **Chloromethane** | **23.6** | 4.0 | ug/l | 25.0 | ND | 94 | 15-140 | 0.9 | 20 | |
| **2-Chlorotoluene** | **26.8** | 1.0 | ug/l | 25.0 | ND | 107 | 80-125 | 4 | 20 | |
| **4-Chlorotoluene** | **26.5** | 1.0 | ug/l | 25.0 | ND | 106 | 80-125 | 4 | 20 | |
| **Dibromochloromethane** | **23.0** | 1.0 | ug/l | 25.0 | ND | 92 | 75-135 | 0.4 | 20 | |
| **1,2-Dibromo-3-chloropropane** | **23.2** | 1.0 | ug/l | 25.0 | ND | 93 | 25-185 | 0.4 | 20 | |
| **1,2-Dibromoethane (EDB)** | **24.6** | 1.0 | ug/l | 25.0 | ND | 98 | 45-145 | 2 | 20 | |
| **Dibromomethane** | **25.6** | 1.0 | ug/l | 25.0 | ND | 102 | 55-140 | 1 | 20 | |
| **1,2-Dichlorobenzene** | **25.0** | 1.0 | ug/l | 25.0 | ND | 100 | 80-120 | 3 | 20 | |
| **1,3-Dichlorobenzene** | **24.9** | 1.0 | ug/l | 25.0 | ND | 100 | 80-120 | 3 | 20 | |
| **1,4-Dichlorobenzene** | **24.9** | 1.0 | ug/l | 25.0 | ND | 100 | 80-120 | 2 | 20 | |
| **Dichlorodifluoromethane** | **24.2** | 4.0 | ug/l | 25.0 | ND | 97 | 25-145 | 6 | 20 | |

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Project Manager

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P2A0401 Extracted: 01/03/02** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 01/03/02 (P2A0401-MSD1)** | | | | | **Source: PKL0395-03** | | | | | |
| **1,1-Dichloroethane** | **28.3** | 1.0 | ug/l | 25.0 | 2.5 | 103 | 75-120 | 3 | 20 | |
| **1,2-Dichloroethane** | **24.3** | 1.0 | ug/l | 25.0 | ND | 97 | 60-135 | 0.8 | 20 | |
| **1,1-Dichloroethene** | **28.4** | 2.0 | ug/l | 25.0 | 2.5 | 104 | 55-120 | 7 | 20 | |
| **cis-1,2-Dichloroethene** | **27.2** | 1.0 | ug/l | 25.0 | ND | 109 | 75-120 | 1 | 20 | |
| **trans-1,2-Dichloroethene** | **24.9** | 1.0 | ug/l | 25.0 | ND | 100 | 65-120 | 3 | 20 | |
| **1,2-Dichloropropane** | **25.6** | 1.0 | ug/l | 25.0 | ND | 102 | 80-125 | 1 | 20 | |
| **1,3-Dichloropropane** | **26.5** | 1.0 | ug/l | 25.0 | ND | 106 | 55-140 | 0.8 | 20 | |
| **2,2-Dichloropropane** | **24.2** | 1.0 | ug/l | 25.0 | ND | 97 | 45-165 | 3 | 20 | |
| **1,1-Dichloropropene** | **25.5** | 1.0 | ug/l | 25.0 | ND | 102 | 80-120 | 4 | 20 | |
| **cis-1,3-Dichloropropene** | **25.8** | 1.0 | ug/l | 25.0 | ND | 103 | 80-120 | 0 | 20 | |
| **trans-1,3-Dichloropropene** | **22.8** | 1.0 | ug/l | 25.0 | ND | 91 | 70-120 | 0.9 | 20 | |
| **Ethylbenzene** | **27.1** | 2.0 | ug/l | 25.0 | ND | 108 | 80-120 | 3 | 20 | |
| **Hexachlorobutadiene** | **25.4** | 1.0 | ug/l | 25.0 | ND | 102 | 80-135 | 11 | 20 | |
| **2-Hexanone** | **19.8** | 10 | ug/l | 25.0 | ND | 79 | 25-185 | 4 | 20 | |
| **Iodomethane** | **26.3** | 2.0 | ug/l | 25.0 | ND | 105 | 30-155 | 1 | 20 | |
| **Isopropylbenzene** | **26.7** | 1.0 | ug/l | 25.0 | ND | 107 | 80-125 | 5 | 20 | |
| **p-Isopropyltoluene** | **25.3** | 1.0 | ug/l | 25.0 | ND | 101 | 80-125 | 8 | 20 | |
| **Methylene chloride** | **24.9** | 5.0 | ug/l | 25.0 | ND | 100 | 55-125 | 0.4 | 20 | |
| **4-Methyl-2-pentanone (MIBK)** | **25.5** | 10 | ug/l | 25.0 | ND | 102 | 10-175 | 6 | 20 | |
| **Methyl-tert-butyl Ether (MTBE)** | **25.4** | 5.0 | ug/l | 25.0 | ND | 102 | 55-135 | 3 | 20 | |
| **Naphthalene** | **28.7** | 2.0 | ug/l | 25.0 | ND | 115 | 15-160 | 4 | 20 | |
| **n-Propylbenzene** | **27.4** | 1.0 | ug/l | 25.0 | ND | 110 | 80-130 | 5 | 20 | |
| **Styrene** | **26.8** | 1.0 | ug/l | 25.0 | ND | 107 | 60-135 | 40 | 20 | R4 |
| **1,1,1,2-Tetrachloroethane** | **25.8** | 1.0 | ug/l | 25.0 | ND | 103 | 80-135 | 1 | 20 | |
| **1,1,2,2-Tetrachloroethane** | **27.7** | 2.0 | ug/l | 25.0 | ND | 111 | 35-150 | 1 | 20 | |
| **Tetrachloroethene** | **46.6** | 1.0 | ug/l | 25.0 | 21 | 102 | 80-120 | 5 | 20 | |
| **Toluene** | **27.4** | 2.0 | ug/l | 25.0 | ND | 110 | 80-120 | 3 | 20 | |
| **1,2,3-Trichlorobenzene** | **28.1** | 1.0 | ug/l | 25.0 | ND | 112 | 45-145 | 1 | 20 | |
| **1,2,4-Trichlorobenzene** | **26.8** | 1.0 | ug/l | 25.0 | ND | 107 | 65-130 | 3 | 20 | |
| **1,1,1-Trichloroethane** | **24.9** | 1.0 | ug/l | 25.0 | ND | 100 | 80-120 | 3 | 20 | |
| **1,1,2-Trichloroethane** | **25.3** | 1.0 | ug/l | 25.0 | ND | 101 | 55-145 | 3 | 20 | |
| **Trichloroethene** | **26.5** | 1.0 | ug/l | 25.0 | 1.1 | 102 | 80-120 | 3 | 20 | |
| **Trichlorofluoromethane** | **23.3** | 4.0 | ug/l | 25.0 | ND | 93 | 70-145 | 7 | 20 | |
| **1,2,3-Trichloropropane** | **25.8** | 1.0 | ug/l | 25.0 | ND | 103 | 20-160 | 3 | 20 | |
| **1,2,4-Trimethylbenzene** | **27.6** | 1.0 | ug/l | 25.0 | ND | 110 | 70-135 | 24 | 20 | R4 |

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P2A0401 Extracted: 01/03/02** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 01/03/02 (P2A0401-MSD1)** | | | | | **Source: PKL0395-03** | | | | | |
| **1,3,5-Trimethylbenzene** | **27.3** | 1.0 | ug/l | 25.0 | ND | 109 | 80-125 | 11 | 20 | |
| **Vinyl acetate** | **25.7** | 5.0 | ug/l | 25.0 | ND | 103 | 25-130 | 1 | 20 | |
| **Vinyl chloride** | **24.7** | 1.0 | ug/l | 25.0 | ND | 99 | 25-135 | 2 | 20 | |
| **Xylenes, Total** | **80.5** | 3.0 | ug/l | 75.0 | ND | 107 | 80-120 | 5 | 20 | |
| *Surrogate: Dibromofluoromethane* | *26.2* | | *ug/l* | *25.0* | | *105* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *28.0* | | *ug/l* | *25.0* | | *112* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.6* | | *ug/l* | *25.0* | | *106* | *80-120* | | | |
| **Batch: P2A0417 Extracted: 01/04/02** | | | | | | | | | | |
| **Blank Analyzed: 01/04/02 (P2A0417-BLK1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | |
| Benzene | ND | 1.0 | ug/l | | | | | | | |
| Bromobenzene | ND | 1.0 | ug/l | | | | | | | |
| Bromochloromethane | ND | 1.0 | ug/l | | | | | | | |
| Bromodichloromethane | ND | 1.0 | ug/l | | | | | | | |
| Bromoform | ND | 2.0 | ug/l | | | | | | | |
| Bromomethane | ND | 4.0 | ug/l | | | | | | | |
| 2-Butanone (MEK) | ND | 10 | ug/l | | | | | | | |
| n-Butylbenzene | ND | 1.0 | ug/l | | | | | | | |
| sec-Butylbenzene | ND | 1.0 | ug/l | | | | | | | |
| tert-Butylbenzene | ND | 1.0 | ug/l | | | | | | | |
| Carbon Disulfide | ND | 5.0 | ug/l | | | | | | | |
| Carbon tetrachloride | ND | 1.0 | ug/l | | | | | | | |
| Chlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| Chloroethane | ND | 4.0 | ug/l | | | | | | | |
| Chloroform | ND | 1.0 | ug/l | | | | | | | |
| Chloromethane | ND | 4.0 | ug/l | | | | | | | |
| 2-Chlorotoluene | ND | 1.0 | ug/l | | | | | | | |
| 4-Chlorotoluene | ND | 1.0 | ug/l | | | | | | | |
| Dibromochloromethane | ND | 1.0 | ug/l | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | ug/l | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | ug/l | | | | | | | |
| Dibromomethane | ND | 1.0 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/l | | | | | | | |

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Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P2A0417 Extracted: 01/04/02** | | | | | | | | | | |
| **Blank Analyzed: 01/04/02 (P2A0417-BLK1)** | | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| Dichlorodifluoromethane | ND | 4.0 | ug/l | | | | | | | |
| 1,1-Dichloroethane | ND | 1.0 | ug/l | | | | | | | |
| 1,2-Dichloroethane | ND | 1.0 | ug/l | | | | | | | |
| 1,1-Dichloroethene | ND | 2.0 | ug/l | | | | | | | |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/l | | | | | | | |
| trans-1,2-Dichloroethene | ND | 1.0 | ug/l | | | | | | | |
| 1,2-Dichloropropane | ND | 1.0 | ug/l | | | | | | | |
| 1,3-Dichloropropane | ND | 1.0 | ug/l | | | | | | | |
| 2,2-Dichloropropane | ND | 1.0 | ug/l | | | | | | | |
| 1,1-Dichloropropene | ND | 1.0 | ug/l | | | | | | | |
| cis-1,3-Dichloropropene | ND | 1.0 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 1.0 | ug/l | | | | | | | |
| Ethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 1.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 10 | ug/l | | | | | | | |
| Iodomethane | ND | 2.0 | ug/l | | | | | | | |
| Isopropylbenzene | ND | 1.0 | ug/l | | | | | | | |
| p-Isopropyltoluene | ND | 1.0 | ug/l | | | | | | | |
| Methylene chloride | ND | 5.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 5.0 | ug/l | | | | | | | |
| Naphthalene | ND | 2.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 1.0 | ug/l | | | | | | | |
| Styrene | ND | 1.0 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/l | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 1.0 | ug/l | | | | | | | |
| Toluene | ND | 2.0 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/l | | | | | | | |



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Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P2A0417 Extracted: 01/04/02** | | | | | | | | | | |
| **Blank Analyzed: 01/04/02 (P2A0417-BLK1)** | | | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/l | | | | | | | |
| Trichloroethene | ND | 1.0 | ug/l | | | | | | | |
| Trichlorofluoromethane | ND | 4.0 | ug/l | | | | | | | |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/l | | | | | | | |
| Vinyl acetate | ND | 5.0 | ug/l | | | | | | | |
| Vinyl chloride | ND | 1.0 | ug/l | | | | | | | |
| Xylenes, Total | ND | 3.0 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *25.0* | | *ug/l* | *25.0* | | *100* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *27.9* | | *ug/l* | *25.0* | | *112* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.6* | | *ug/l* | *25.0* | | *106* | *80-120* | | | |
| **LCS Analyzed: 01/04/02 (P2A0417-BS1)** | | | | | | | | | | |
| **Acetone** | **23.2** | 20 | ug/l | 25.0 | | 93 | 30-200 | | | |
| **Benzene** | **27.2** | 1.0 | ug/l | 25.0 | | 109 | 80-120 | | | |
| **Bromobenzene** | **26.4** | 1.0 | ug/l | 25.0 | | 106 | 80-120 | | | |
| **Bromochloromethane** | **22.3** | 1.0 | ug/l | 25.0 | | 89 | 80-120 | | | |
| **Bromodichloromethane** | **24.7** | 1.0 | ug/l | 25.0 | | 99 | 80-130 | | | |
| **Bromoform** | **23.8** | 2.0 | ug/l | 25.0 | | 95 | 60-140 | | | |
| **Bromomethane** | **24.8** | 4.0 | ug/l | 25.0 | | 99 | 60-150 | | | |
| **2-Butanone (MEK)** | **19.8** | 10 | ug/l | 25.0 | | 79 | 30-185 | | | |
| **n-Butylbenzene** | **27.7** | 1.0 | ug/l | 25.0 | | 111 | 75-130 | | | |
| **sec-Butylbenzene** | **27.3** | 1.0 | ug/l | 25.0 | | 109 | 80-125 | | | |
| **tert-Butylbenzene** | **26.6** | 1.0 | ug/l | 25.0 | | 106 | 80-120 | | | |
| **Carbon Disulfide** | **23.6** | 5.0 | ug/l | 25.0 | | 94 | 65-120 | | | |
| **Carbon tetrachloride** | **26.8** | 1.0 | ug/l | 25.0 | | 107 | 75-150 | | | |
| **Chlorobenzene** | **25.4** | 1.0 | ug/l | 25.0 | | 102 | 80-120 | | | |
| **Chloroethane** | **23.9** | 4.0 | ug/l | 25.0 | | 96 | 80-125 | | | |
| **Chloroform** | **24.4** | 1.0 | ug/l | 25.0 | | 98 | 80-120 | | | |
| **Chloromethane** | **21.9** | 4.0 | ug/l | 25.0 | | 88 | 60-125 | | | |
| **2-Chlorotoluene** | **27.6** | 1.0 | ug/l | 25.0 | | 110 | 80-120 | | | |
| **4-Chlorotoluene** | **27.0** | 1.0 | ug/l | 25.0 | | 108 | 80-120 | | | |
| **Dibromochloromethane** | **20.8** | 1.0 | ug/l | 25.0 | | 83 | 70-150 | | | |
| **1,2-Dibromo-3-chloropropane** | **20.2** | 1.0 | ug/l | 25.0 | | 81 | 50-145 | | | |
| **1,2-Dibromoethane (EDB)** | **22.2** | 1.0 | ug/l | 25.0 | | 89 | 75-120 | | | |

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Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P2A0417 Extracted: 01/04/02** | | | | | | | | | | |
| **LCS Analyzed: 01/04/02 (P2A0417-BS1)** | | | | | | | | | | |
| Dibromomethane | 22.9 | 1.0 | ug/l | 25.0 | | 92 | 80-120 | | | |
| 1,2-Dichlorobenzene | 24.4 | 1.0 | ug/l | 25.0 | | 98 | 80-120 | | | |
| 1,3-Dichlorobenzene | 25.0 | 1.0 | ug/l | 25.0 | | 100 | 80-120 | | | |
| 1,4-Dichlorobenzene | 25.0 | 1.0 | ug/l | 25.0 | | 100 | 80-120 | | | |
| Dichlorodifluoromethane | 24.2 | 4.0 | ug/l | 25.0 | | 97 | 25-140 | | | |
| 1,1-Dichloroethane | 23.7 | 1.0 | ug/l | 25.0 | | 95 | 80-120 | | | |
| 1,2-Dichloroethane | 21.1 | 1.0 | ug/l | 25.0 | | 84 | 80-120 | | | |
| 1,1-Dichloroethene | 24.6 | 2.0 | ug/l | 25.0 | | 98 | 80-120 | | | |
| cis-1,2-Dichloroethene | 25.3 | 1.0 | ug/l | 25.0 | | 101 | 80-120 | | | |
| trans-1,2-Dichloroethene | 23.3 | 1.0 | ug/l | 25.0 | | 93 | 80-120 | | | |
| 1,2-Dichloropropane | 24.6 | 1.0 | ug/l | 25.0 | | 98 | 80-120 | | | |
| 1,3-Dichloropropane | 23.3 | 1.0 | ug/l | 25.0 | | 93 | 80-120 | | | |
| 2,2-Dichloropropane | 24.8 | 1.0 | ug/l | 25.0 | | 99 | 75-135 | | | |
| 1,1-Dichloropropene | 26.2 | 1.0 | ug/l | 25.0 | | 105 | 80-120 | | | |
| cis-1,3-Dichloropropene | 24.7 | 1.0 | ug/l | 25.0 | | 99 | 80-120 | | | |
| trans-1,3-Dichloropropene | 21.0 | 1.0 | ug/l | 25.0 | | 84 | 80-120 | | | |
| Ethylbenzene | 28.0 | 2.0 | ug/l | 25.0 | | 112 | 80-120 | | | |
| Hexachlorobutadiene | 26.9 | 1.0 | ug/l | 25.0 | | 108 | 60-145 | | | |
| 2-Hexanone | 19.6 | 10 | ug/l | 25.0 | | 78 | 50-170 | | | |
| Iodomethane | 24.2 | 2.0 | ug/l | 25.0 | | 97 | 40-155 | | | |
| Isopropylbenzene | 28.0 | 1.0 | ug/l | 25.0 | | 112 | 80-120 | | | |
| p-Isopropyltoluene | 26.3 | 1.0 | ug/l | 25.0 | | 105 | 80-120 | | | |
| Methylene chloride | 22.5 | 5.0 | ug/l | 25.0 | | 90 | 80-120 | | | |
| 4-Methyl-2-pentanone (MIBK) | 20.8 | 10 | ug/l | 25.0 | | 83 | 70-140 | | | |
| Methyl-tert-butyl Ether (MTBE) | 20.3 | 5.0 | ug/l | 25.0 | | 81 | 75-135 | | | |
| Naphthalene | 28.3 | 2.0 | ug/l | 25.0 | | 113 | 70-130 | | | |
| n-Propylbenzene | 28.7 | 1.0 | ug/l | 25.0 | | 115 | 80-120 | | | |
| Styrene | 27.2 | 1.0 | ug/l | 25.0 | | 109 | 80-120 | | | |
| 1,1,1,2-Tetrachloroethane | 25.3 | 1.0 | ug/l | 25.0 | | 101 | 65-150 | | | |
| 1,1,2,2-Tetrachloroethane | 23.2 | 2.0 | ug/l | 25.0 | | 93 | 70-130 | | | |
| Tetrachloroethene | 27.4 | 1.0 | ug/l | 25.0 | | 110 | 80-125 | | | |
| Toluene | 27.4 | 2.0 | ug/l | 25.0 | | 110 | 80-120 | | | |
| 1,2,3-Trichlorobenzene | 29.4 | 1.0 | ug/l | 25.0 | | 118 | 75-125 | | | |
| 1,2,4-Trichlorobenzene | 27.2 | 1.0 | ug/l | 25.0 | | 109 | 80-120 | | | |
| 1,1,1-Trichloroethane | 25.2 | 1.0 | ug/l | 25.0 | | 101 | 80-120 | | | |



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Law Engineering
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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P2A0417 Extracted: 01/04/02** | | | | | | | | | | |
| **LCS Analyzed: 01/04/02 (P2A0417-BS1)** | | | | | | | | | | |
| **1,1,2-Trichloroethane** | **22.5** | 1.0 | ug/l | 25.0 | | 90 | 80-120 | | | |
| **Trichloroethene** | **26.2** | 1.0 | ug/l | 25.0 | | 105 | 80-120 | | | |
| **Trichlorofluoromethane** | **24.8** | 4.0 | ug/l | 25.0 | | 99 | 75-150 | | | |
| **1,2,3-Trichloropropane** | **21.7** | 1.0 | ug/l | 25.0 | | 87 | 65-135 | | | |
| **1,2,4-Trimethylbenzene** | **28.6** | 1.0 | ug/l | 25.0 | | 114 | 80-120 | | | |
| **1,3,5-Trimethylbenzene** | **28.6** | 1.0 | ug/l | 25.0 | | 114 | 80-120 | | | |
| **Vinyl acetate** | **20.9** | 5.0 | ug/l | 25.0 | | 84 | 40-120 | | | |
| **Vinyl chloride** | **21.9** | 1.0 | ug/l | 25.0 | | 88 | 80-120 | | | |
| **Xylenes, Total** | **81.3** | 3.0 | ug/l | 75.0 | | 108 | 80-120 | | | |
| *Surrogate: Dibromofluoromethane* | *24.2* | | *ug/l* | *25.0* | | *97* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *27.8* | | *ug/l* | *25.0* | | *111* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.8* | | *ug/l* | *25.0* | | *107* | *80-120* | | | |
| **LCS Dup Analyzed: 01/04/02 (P2A0417-BSD1)** | | | | | | | | | | |
| **Acetone** | **26.0** | 20 | ug/l | 25.0 | | 104 | 30-200 | 11 | 20 | |
| **Benzene** | **26.8** | 1.0 | ug/l | 25.0 | | 107 | 80-120 | 1 | 20 | |
| **Bromobenzene** | **26.2** | 1.0 | ug/l | 25.0 | | 105 | 80-120 | 0.8 | 20 | |
| **Bromochloromethane** | **23.2** | 1.0 | ug/l | 25.0 | | 93 | 80-120 | 4 | 20 | |
| **Bromodichloromethane** | **25.0** | 1.0 | ug/l | 25.0 | | 100 | 80-130 | 1 | 20 | |
| **Bromoform** | **25.6** | 2.0 | ug/l | 25.0 | | 102 | 60-140 | 7 | 20 | |
| **Bromomethane** | **25.0** | 4.0 | ug/l | 25.0 | | 100 | 60-150 | 0.8 | 20 | |
| **2-Butanone (MEK)** | **22.2** | 10 | ug/l | 25.0 | | 89 | 30-185 | 11 | 20 | |
| **n-Butylbenzene** | **26.6** | 1.0 | ug/l | 25.0 | | 106 | 75-130 | 4 | 20 | |
| **sec-Butylbenzene** | **25.8** | 1.0 | ug/l | 25.0 | | 103 | 80-125 | 6 | 20 | |
| **tert-Butylbenzene** | **25.7** | 1.0 | ug/l | 25.0 | | 103 | 80-120 | 3 | 20 | |
| **Carbon Disulfide** | **23.6** | 5.0 | ug/l | 25.0 | | 94 | 65-120 | 0 | 20 | |
| **Carbon tetrachloride** | **26.4** | 1.0 | ug/l | 25.0 | | 106 | 75-150 | 2 | 20 | |
| **Chlorobenzene** | **25.2** | 1.0 | ug/l | 25.0 | | 101 | 80-120 | 0.8 | 20 | |
| **Chloroethane** | **24.1** | 4.0 | ug/l | 25.0 | | 96 | 80-125 | 0.8 | 20 | |
| **Chloroform** | **24.9** | 1.0 | ug/l | 25.0 | | 100 | 80-120 | 2 | 20 | |
| **Chloromethane** | **21.7** | 4.0 | ug/l | 25.0 | | 87 | 60-125 | 0.9 | 20 | |
| **2-Chlorotoluene** | **26.2** | 1.0 | ug/l | 25.0 | | 105 | 80-120 | 5 | 20 | |
| **4-Chlorotoluene** | **25.7** | 1.0 | ug/l | 25.0 | | 103 | 80-120 | 5 | 20 | |
| **Dibromochloromethane** | **22.3** | 1.0 | ug/l | 25.0 | | 89 | 70-150 | 7 | 20 | |
| **1,2-Dibromo-3-chloropropane** | **22.7** | 1.0 | ug/l | 25.0 | | 91 | 50-145 | 12 | 20 | |
| **1,2-Dibromoethane (EDB)** | **24.4** | 1.0 | ug/l | 25.0 | | 98 | 75-120 | 9 | 20 | |

Debbie Fuller
Project Manager

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P2A0417 Extracted: 01/04/02** | | | | | | | | | | |
| **LCS Dup Analyzed: 01/04/02 (P2A0417-BSD1)** | | | | | | | | | | |
| Dibromomethane | 25.1 | 1.0 | ug/l | 25.0 | | 100 | 80-120 | 9 | 20 | |
| 1,2-Dichlorobenzene | 24.7 | 1.0 | ug/l | 25.0 | | 99 | 80-120 | 1 | 20 | |
| 1,3-Dichlorobenzene | 24.7 | 1.0 | ug/l | 25.0 | | 99 | 80-120 | 1 | 20 | |
| 1,4-Dichlorobenzene | 24.7 | 1.0 | ug/l | 25.0 | | 99 | 80-120 | 1 | 20 | |
| Dichlorodifluoromethane | 23.4 | 4.0 | ug/l | 25.0 | | 94 | 25-140 | 3 | 20 | |
| 1,1-Dichloroethane | 23.7 | 1.0 | ug/l | 25.0 | | 95 | 80-120 | 0 | 20 | |
| 1,2-Dichloroethane | 22.7 | 1.0 | ug/l | 25.0 | | 91 | 80-120 | 7 | 20 | |
| 1,1-Dichloroethene | 25.2 | 2.0 | ug/l | 25.0 | | 101 | 80-120 | 2 | 20 | |
| cis-1,2-Dichloroethene | 25.5 | 1.0 | ug/l | 25.0 | | 102 | 80-120 | 0.8 | 20 | |
| trans-1,2-Dichloroethene | 23.7 | 1.0 | ug/l | 25.0 | | 95 | 80-120 | 2 | 20 | |
| 1,2-Dichloropropane | 24.8 | 1.0 | ug/l | 25.0 | | 99 | 80-120 | 0.8 | 20 | |
| 1,3-Dichloropropane | 25.0 | 1.0 | ug/l | 25.0 | | 100 | 80-120 | 7 | 20 | |
| 2,2-Dichloropropane | 24.7 | 1.0 | ug/l | 25.0 | | 99 | 75-135 | 0.4 | 20 | |
| 1,1-Dichloropropene | 25.7 | 1.0 | ug/l | 25.0 | | 103 | 80-120 | 2 | 20 | |
| cis-1,3-Dichloropropene | 25.5 | 1.0 | ug/l | 25.0 | | 102 | 80-120 | 3 | 20 | |
| trans-1,3-Dichloropropene | 22.9 | 1.0 | ug/l | 25.0 | | 92 | 80-120 | 9 | 20 | |
| Ethylbenzene | 27.2 | 2.0 | ug/l | 25.0 | | 109 | 80-120 | 3 | 20 | |
| Hexachlorobutadiene | 27.4 | 1.0 | ug/l | 25.0 | | 110 | 60-145 | 2 | 20 | |
| 2-Hexanone | 21.6 | 10 | ug/l | 25.0 | | 86 | 50-170 | 10 | 20 | |
| Iodomethane | 24.5 | 2.0 | ug/l | 25.0 | | 98 | 40-155 | 1 | 20 | |
| Isopropylbenzene | 26.6 | 1.0 | ug/l | 25.0 | | 106 | 80-120 | 5 | 20 | |
| p-Isopropyltoluene | 25.5 | 1.0 | ug/l | 25.0 | | 102 | 80-120 | 3 | 20 | |
| Methylene chloride | 23.2 | 5.0 | ug/l | 25.0 | | 93 | 80-120 | 3 | 20 | |
| 4-Methyl-2-pentanone (MIBK) | 24.5 | 10 | ug/l | 25.0 | | 98 | 70-140 | 16 | 20 | |
| Methyl-tert-butyl Ether (MTBE) | 23.5 | 5.0 | ug/l | 25.0 | | 94 | 75-135 | 15 | 20 | |
| Naphthalene | 30.4 | 2.0 | ug/l | 25.0 | | 122 | 70-130 | 7 | 20 | |
| n-Propylbenzene | 27.2 | 1.0 | ug/l | 25.0 | | 109 | 80-120 | 5 | 20 | |
| Styrene | 27.2 | 1.0 | ug/l | 25.0 | | 109 | 80-120 | 0 | 20 | |
| 1,1,1,2-Tetrachloroethane | 25.4 | 1.0 | ug/l | 25.0 | | 102 | 65-150 | 0.4 | 20 | |
| 1,1,2,2-Tetrachloroethane | 25.8 | 2.0 | ug/l | 25.0 | | 103 | 70-130 | 11 | 20 | |
| Tetrachloroethene | 26.7 | 1.0 | ug/l | 25.0 | | 107 | 80-125 | 3 | 20 | |
| Toluene | 26.8 | 2.0 | ug/l | 25.0 | | 107 | 80-120 | 2 | 20 | |
| 1,2,3-Trichlorobenzene | 30.0 | 1.0 | ug/l | 25.0 | | 120 | 75-125 | 2 | 20 | |
| 1,2,4-Trichlorobenzene | 28.4 | 1.0 | ug/l | 25.0 | | 114 | 80-120 | 4 | 20 | |
| 1,1,1-Trichloroethane | 25.6 | 1.0 | ug/l | 25.0 | | 102 | 80-120 | 2 | 20 | |



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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P2A0417 Extracted: 01/04/02** | | | | | | | | | | |
| **LCS Dup Analyzed: 01/04/02 (P2A0417-BSD1)** | | | | | | | | | | |
| **1,1,2-Trichloroethane** | **24.3** | 1.0 | ug/l | 25.0 | | 97 | 80-120 | 8 | 20 | |
| **Trichloroethene** | **25.4** | 1.0 | ug/l | 25.0 | | 102 | 80-120 | 3 | 20 | |
| **Trichlorofluoromethane** | **25.2** | 4.0 | ug/l | 25.0 | | 101 | 75-150 | 2 | 20 | |
| **1,2,3-Trichloropropane** | **24.2** | 1.0 | ug/l | 25.0 | | 97 | 65-135 | 11 | 20 | |
| **1,2,4-Trimethylbenzene** | **27.5** | 1.0 | ug/l | 25.0 | | 110 | 80-120 | 4 | 20 | |
| **1,3,5-Trimethylbenzene** | **27.3** | 1.0 | ug/l | 25.0 | | 109 | 80-120 | 5 | 20 | |
| **Vinyl acetate** | **25.0** | 5.0 | ug/l | 25.0 | | 100 | 40-120 | 18 | 20 | |
| **Vinyl chloride** | **21.1** | 1.0 | ug/l | 25.0 | | 84 | 80-120 | 4 | 20 | |
| **Xylenes, Total** | **79.6** | 3.0 | ug/l | 75.0 | | 106 | 80-120 | 2 | 20 | |
| *Surrogate: Dibromofluoromethane* | *25.2* | | *ug/l* | *25.0* | | *101* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *28.0* | | *ug/l* | *25.0* | | *112* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.7* | | *ug/l* | *25.0* | | *107* | *80-120* | | | |
| **Matrix Spike Analyzed: 01/04/02 (P2A0417-MS1)** | | | | | **Source: PKL0418-02** | | | | | |
| Acetone | ND | 20 | ug/l | 25.0 | ND | 67 | 5-200 | | | |
| **Benzene** | **30.2** | 1.0 | ug/l | 25.0 | 2.7 | 110 | 80-120 | | | |
| **Bromobenzene** | **27.2** | 1.0 | ug/l | 25.0 | ND | 109 | 80-120 | | | |
| **Bromochloromethane** | **24.0** | 1.0 | ug/l | 25.0 | ND | 96 | 60-135 | | | |
| **Bromodichloromethane** | **25.8** | 1.0 | ug/l | 25.0 | ND | 103 | 80-120 | | | |
| **Bromoform** | **26.0** | 2.0 | ug/l | 25.0 | ND | 104 | 40-140 | | | |
| **Bromomethane** | **25.9** | 4.0 | ug/l | 25.0 | ND | 104 | 25-165 | | | |
| **2-Butanone (MEK)** | **19.2** | 10 | ug/l | 25.0 | ND | 77 | 10-160 | | | |
| **n-Butylbenzene** | **27.9** | 1.0 | ug/l | 25.0 | ND | 112 | 75-135 | | | |
| **sec-Butylbenzene** | **26.8** | 1.0 | ug/l | 25.0 | ND | 107 | 80-135 | | | |
| **tert-Butylbenzene** | **26.1** | 1.0 | ug/l | 25.0 | ND | 104 | 80-125 | | | |
| **Carbon Disulfide** | **24.3** | 5.0 | ug/l | 25.0 | ND | 97 | 20-120 | | | |
| **Carbon tetrachloride** | **26.6** | 1.0 | ug/l | 25.0 | ND | 106 | 80-145 | | | |
| **Chlorobenzene** | **25.2** | 1.0 | ug/l | 25.0 | ND | 101 | 80-120 | | | |
| **Chloroethane** | **25.6** | 4.0 | ug/l | 25.0 | ND | 102 | 30-150 | | | |
| **Chloroform** | **25.3** | 1.0 | ug/l | 25.0 | ND | 101 | 80-125 | | | |
| **Chloromethane** | **22.2** | 4.0 | ug/l | 25.0 | ND | 89 | 15-140 | | | |
| **2-Chlorotoluene** | **26.7** | 1.0 | ug/l | 25.0 | ND | 107 | 80-125 | | | |
| **4-Chlorotoluene** | **26.6** | 1.0 | ug/l | 25.0 | ND | 106 | 80-125 | | | |
| **Dibromochloromethane** | **22.7** | 1.0 | ug/l | 25.0 | ND | 91 | 75-135 | | | |
| **1,2-Dibromo-3-chloropropane** | **23.7** | 1.0 | ug/l | 25.0 | ND | 95 | 25-185 | | | |
| **1,2-Dibromoethane (EDB)** | **25.0** | 1.0 | ug/l | 25.0 | ND | 100 | 45-145 | | | |



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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130

Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P2A0417 Extracted: 01/04/02** | | | | | | | | | | |
| **Matrix Spike Analyzed: 01/04/02 (P2A0417-MS1)** | | | | | **Source: PKL0418-02** | | | | | |
| **Dibromomethane** | **25.6** | 1.0 | ug/l | 25.0 | ND | 102 | 55-140 | | | |
| **1,2-Dichlorobenzene** | **25.3** | 1.0 | ug/l | 25.0 | ND | 101 | 80-120 | | | |
| **1,3-Dichlorobenzene** | **25.1** | 1.0 | ug/l | 25.0 | ND | 100 | 80-120 | | | |
| **1,4-Dichlorobenzene** | **25.2** | 1.0 | ug/l | 25.0 | ND | 101 | 80-120 | | | |
| **Dichlorodifluoromethane** | **24.4** | 4.0 | ug/l | 25.0 | ND | 98 | 25-145 | | | |
| **1,1-Dichloroethane** | **27.6** | 1.0 | ug/l | 25.0 | 1.3 | 105 | 75-120 | | | |
| **1,2-Dichloroethane** | **23.3** | 1.0 | ug/l | 25.0 | ND | 93 | 60-135 | | | |
| **1,1-Dichloroethene** | **25.9** | 2.0 | ug/l | 25.0 | ND | 104 | 55-120 | | | |
| **cis-1,2-Dichloroethene** | **26.2** | 1.0 | ug/l | 25.0 | ND | 105 | 75-120 | | | |
| **trans-1,2-Dichloroethene** | **24.3** | 1.0 | ug/l | 25.0 | ND | 97 | 65-120 | | | |
| **1,2-Dichloropropane** | **25.8** | 1.0 | ug/l | 25.0 | ND | 103 | 80-125 | | | |
| **1,3-Dichloropropane** | **25.9** | 1.0 | ug/l | 25.0 | ND | 104 | 55-140 | | | |
| **2,2-Dichloropropane** | **24.6** | 1.0 | ug/l | 25.0 | ND | 98 | 45-165 | | | |
| **1,1-Dichloropropene** | **26.0** | 1.0 | ug/l | 25.0 | ND | 104 | 80-120 | | | |
| **cis-1,3-Dichloropropene** | **26.1** | 1.0 | ug/l | 25.0 | ND | 104 | 80-120 | | | |
| **trans-1,3-Dichloropropene** | **23.4** | 1.0 | ug/l | 25.0 | ND | 94 | 70-120 | | | |
| **Ethylbenzene** | **29.7** | 2.0 | ug/l | 25.0 | 2.0 | 111 | 80-120 | | | |
| **Hexachlorobutadiene** | **28.5** | 1.0 | ug/l | 25.0 | ND | 114 | 80-135 | | | |
| **2-Hexanone** | **19.1** | 10 | ug/l | 25.0 | ND | 76 | 25-185 | | | |
| **Iodomethane** | **25.2** | 2.0 | ug/l | 25.0 | ND | 101 | 30-155 | | | |
| **Isopropylbenzene** | **28.1** | 1.0 | ug/l | 25.0 | ND | 112 | 80-125 | | | |
| **p-Isopropyltoluene** | **26.2** | 1.0 | ug/l | 25.0 | ND | 105 | 80-125 | | | |
| **Methylene chloride** | **23.6** | 5.0 | ug/l | 25.0 | ND | 94 | 55-125 | | | |
| **4-Methyl-2-pentanone (MIBK)** | **24.4** | 10 | ug/l | 25.0 | ND | 98 | 10-175 | | | |
| **Methyl-tert-butyl Ether (MTBE)** | **25.5** | 5.0 | ug/l | 25.0 | ND | 102 | 55-135 | | | |
| **Naphthalene** | **41.0** | 2.0 | ug/l | 25.0 | 9.0 | 128 | 15-160 | | | |
| **n-Propylbenzene** | **28.6** | 1.0 | ug/l | 25.0 | ND | 114 | 80-130 | | | |
| **Styrene** | **27.6** | 1.0 | ug/l | 25.0 | ND | 110 | 60-135 | | | |
| **1,1,1,2-Tetrachloroethane** | **26.2** | 1.0 | ug/l | 25.0 | ND | 105 | 80-135 | | | |
| **1,1,2,2-Tetrachloroethane** | **26.6** | 2.0 | ug/l | 25.0 | ND | 106 | 35-150 | | | |
| **Tetrachloroethene** | **26.9** | 1.0 | ug/l | 25.0 | ND | 108 | 80-120 | | | |
| **Toluene** | **28.0** | 2.0 | ug/l | 25.0 | ND | 112 | 80-120 | | | |
| **1,2,3-Trichlorobenzene** | **31.6** | 1.0 | ug/l | 25.0 | ND | 126 | 45-145 | | | |
| **1,2,4-Trichlorobenzene** | **29.6** | 1.0 | ug/l | 25.0 | ND | 118 | 65-130 | | | |
| **1,1,1-Trichloroethane** | **25.8** | 1.0 | ug/l | 25.0 | ND | 103 | 80-120 | | | |

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Project Manager

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Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P2A0417 Extracted: 01/04/02** | | | | | | | | | | |
| **Matrix Spike Analyzed: 01/04/02 (P2A0417-MS1)** | | | | | **Source: PKL0418-02** | | | | | |
| **1,1,2-Trichloroethane** | **25.5** | 1.0 | ug/l | 25.0 | ND | 102 | 55-145 | | | |
| **Trichloroethene** | **26.2** | 1.0 | ug/l | 25.0 | ND | 105 | 80-120 | | | |
| **Trichlorofluoromethane** | **25.5** | 4.0 | ug/l | 25.0 | ND | 102 | 70-145 | | | |
| **1,2,3-Trichloropropane** | **24.9** | 1.0 | ug/l | 25.0 | ND | 100 | 20-160 | | | |
| **1,2,4-Trimethylbenzene** | **30.5** | 1.0 | ug/l | 25.0 | 2.3 | 113 | 70-135 | | | |
| **1,3,5-Trimethylbenzene** | **27.7** | 1.0 | ug/l | 25.0 | ND | 111 | 80-125 | | | |
| **Vinyl acetate** | **25.6** | 5.0 | ug/l | 25.0 | ND | 102 | 25-130 | | | |
| **Vinyl chloride** | **21.9** | 1.0 | ug/l | 25.0 | ND | 88 | 25-135 | | | |
| **Xylenes, Total** | **82.3** | 3.0 | ug/l | 75.0 | ND | 110 | 80-120 | | | |
| *Surrogate: Dibromofluoromethane* | *25.3* | | *ug/l* | *25.0* | | *101* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *27.8* | | *ug/l* | *25.0* | | *111* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.4* | | *ug/l* | *25.0* | | *106* | *80-120* | | | |
| **Matrix Spike Dup Analyzed: 01/04/02 (P2A0417-MSD1)** | | | | | **Source: PKL0418-02** | | | | | |
| Acetone | ND | 20 | ug/l | 25.0 | ND | 49 | 5-200 | 31 | 20 | R4 |
| **Benzene** | **29.9** | 1.0 | ug/l | 25.0 | 2.7 | 109 | 80-120 | 1 | 80 | |
| **Bromobenzene** | **26.4** | 1.0 | ug/l | 25.0 | ND | 106 | 80-120 | 3 | 20 | |
| **Bromochloromethane** | **22.1** | 1.0 | ug/l | 25.0 | ND | 88 | 60-135 | 8 | 20 | |
| **Bromodichloromethane** | **24.0** | 1.0 | ug/l | 25.0 | ND | 96 | 80-120 | 7 | 20 | |
| **Bromoform** | **23.0** | 2.0 | ug/l | 25.0 | ND | 92 | 40-140 | 12 | 20 | |
| **Bromomethane** | **25.3** | 4.0 | ug/l | 25.0 | ND | 101 | 25-165 | 2 | 20 | |
| **2-Butanone (MEK)** | **15.0** | 10 | ug/l | 25.0 | ND | 60 | 10-160 | 25 | 20 | R4 |
| **n-Butylbenzene** | **28.3** | 1.0 | ug/l | 25.0 | ND | 113 | 75-135 | 1 | 20 | |
| **sec-Butylbenzene** | **27.7** | 1.0 | ug/l | 25.0 | ND | 111 | 80-135 | 3 | 20 | |
| **tert-Butylbenzene** | **26.9** | 1.0 | ug/l | 25.0 | ND | 108 | 80-125 | 3 | 20 | |
| **Carbon Disulfide** | **23.5** | 5.0 | ug/l | 25.0 | ND | 94 | 20-120 | 3 | 20 | |
| **Carbon tetrachloride** | **26.7** | 1.0 | ug/l | 25.0 | ND | 107 | 80-145 | 0.4 | 20 | |
| **Chlorobenzene** | **25.5** | 1.0 | ug/l | 25.0 | ND | 102 | 80-120 | 1 | 20 | |
| **Chloroethane** | **24.9** | 4.0 | ug/l | 25.0 | ND | 100 | 30-150 | 3 | 20 | |
| **Chloroform** | **24.8** | 1.0 | ug/l | 25.0 | ND | 99 | 80-125 | 2 | 20 | |
| **Chloromethane** | **21.8** | 4.0 | ug/l | 25.0 | ND | 87 | 15-140 | 2 | 20 | |
| **2-Chlorotoluene** | **27.6** | 1.0 | ug/l | 25.0 | ND | 110 | 80-125 | 3 | 20 | |
| **4-Chlorotoluene** | **27.1** | 1.0 | ug/l | 25.0 | ND | 108 | 80-125 | 2 | 20 | |
| **Dibromochloromethane** | **20.2** | 1.0 | ug/l | 25.0 | ND | 81 | 75-135 | 12 | 20 | |
| **1,2-Dibromo-3-chloropropane** | **19.4** | 1.0 | ug/l | 25.0 | ND | 78 | 25-185 | 20 | 20 | |
| **1,2-Dibromoethane (EDB)** | **21.8** | 1.0 | ug/l | 25.0 | ND | 87 | 45-145 | 14 | 20 | |

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Law Engineering
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Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P2A0417 Extracted: 01/04/02** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 01/04/02 (P2A0417-MSD1)** | | | | | **Source: PKL0418-02** | | | | | |
| Dibromomethane | 22.2 | 1.0 | ug/l | 25.0 | ND | 89 | 55-140 | 14 | 20 | |
| 1,2-Dichlorobenzene | 24.1 | 1.0 | ug/l | 25.0 | ND | 96 | 80-120 | 5 | 20 | |
| 1,3-Dichlorobenzene | 25.2 | 1.0 | ug/l | 25.0 | ND | 101 | 80-120 | 0.4 | 20 | |
| 1,4-Dichlorobenzene | 24.7 | 1.0 | ug/l | 25.0 | ND | 99 | 80-120 | 2 | 20 | |
| Dichlorodifluoromethane | 23.7 | 4.0 | ug/l | 25.0 | ND | 95 | 25-145 | 3 | 20 | |
| 1,1-Dichloroethane | 25.8 | 1.0 | ug/l | 25.0 | 1.3 | 98 | 75-120 | 7 | 20 | |
| 1,2-Dichloroethane | 21.0 | 1.0 | ug/l | 25.0 | ND | 84 | 60-135 | 10 | 20 | |
| 1,1-Dichloroethene | 24.9 | 2.0 | ug/l | 25.0 | ND | 100 | 55-120 | 4 | 20 | |
| cis-1,2-Dichloroethene | 25.6 | 1.0 | ug/l | 25.0 | ND | 102 | 75-120 | 2 | 20 | |
| trans-1,2-Dichloroethene | 24.0 | 1.0 | ug/l | 25.0 | ND | 96 | 65-120 | 1 | 20 | |
| 1,2-Dichloropropane | 24.7 | 1.0 | ug/l | 25.0 | ND | 99 | 80-125 | 4 | 20 | |
| 1,3-Dichloropropane | 22.8 | 1.0 | ug/l | 25.0 | ND | 91 | 55-140 | 13 | 20 | |
| 2,2-Dichloropropane | 24.7 | 1.0 | ug/l | 25.0 | ND | 99 | 45-165 | 0.4 | 20 | |
| 1,1-Dichloropropene | 26.1 | 1.0 | ug/l | 25.0 | ND | 104 | 80-120 | 0.4 | 20 | |
| cis-1,3-Dichloropropene | 24.4 | 1.0 | ug/l | 25.0 | ND | 98 | 80-120 | 7 | 20 | |
| trans-1,3-Dichloropropene | 20.4 | 1.0 | ug/l | 25.0 | ND | 82 | 70-120 | 14 | 20 | |
| Ethylbenzene | 29.8 | 2.0 | ug/l | 25.0 | 2.0 | 111 | 80-120 | 0.3 | 20 | |
| Hexachlorobutadiene | 25.5 | 1.0 | ug/l | 25.0 | ND | 102 | 80-135 | 11 | 20 | |
| 2-Hexanone | 14.9 | 10 | ug/l | 25.0 | ND | 60 | 25-185 | 25 | 20 | R4 |
| Iodomethane | 24.5 | 2.0 | ug/l | 25.0 | ND | 98 | 30-155 | 3 | 20 | |
| Isopropylbenzene | 28.8 | 1.0 | ug/l | 25.0 | ND | 115 | 80-125 | 2 | 20 | |
| p-Isopropyltoluene | 26.6 | 1.0 | ug/l | 25.0 | ND | 106 | 80-125 | 2 | 20 | |
| Methylene chloride | 22.3 | 5.0 | ug/l | 25.0 | ND | 89 | 55-125 | 6 | 20 | |
| 4-Methyl-2-pentanone (MIBK) | 19.0 | 10 | ug/l | 25.0 | ND | 76 | 10-175 | 25 | 20 | R4 |
| Methyl-tert-butyl Ether (MTBE) | 20.9 | 5.0 | ug/l | 25.0 | ND | 84 | 55-135 | 20 | 20 | |
| Naphthalene | 33.3 | 2.0 | ug/l | 25.0 | 9.0 | 97 | 15-160 | 21 | 20 | R4 |
| n-Propylbenzene | 29.6 | 1.0 | ug/l | 25.0 | ND | 118 | 80-130 | 3 | 20 | |
| Styrene | 27.0 | 1.0 | ug/l | 25.0 | ND | 108 | 60-135 | 2 | 20 | |
| 1,1,1,2-Tetrachloroethane | 25.2 | 1.0 | ug/l | 25.0 | ND | 101 | 80-135 | 4 | 20 | |
| 1,1,2,2-Tetrachloroethane | 21.8 | 2.0 | ug/l | 25.0 | ND | 87 | 35-150 | 20 | 20 | |
| Tetrachloroethene | 27.6 | 1.0 | ug/l | 25.0 | ND | 110 | 80-120 | 3 | 20 | |
| Toluene | 27.7 | 2.0 | ug/l | 25.0 | ND | 111 | 80-120 | 1 | 20 | |
| 1,2,3-Trichlorobenzene | 27.9 | 1.0 | ug/l | 25.0 | ND | 112 | 45-145 | 12 | 20 | |
| 1,2,4-Trichlorobenzene | 26.5 | 1.0 | ug/l | 25.0 | ND | 106 | 65-130 | 11 | 20 | |
| 1,1,1-Trichloroethane | 25.7 | 1.0 | ug/l | 25.0 | ND | 103 | 80-120 | 0.4 | 20 | |

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Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

## METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P2A0417 Extracted: 01/04/02** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 01/04/02 (P2A0417-MSD1)** | | | | | **Source: PKL0418-02** | | | | | |
| **1,1,2-Trichloroethane** | **21.9** | 1.0 | ug/l | 25.0 | ND | 88 | 55-145 | 15 | 20 | |
| **Trichloroethene** | **25.8** | 1.0 | ug/l | 25.0 | ND | 103 | 80-120 | 2 | 20 | |
| **Trichlorofluoromethane** | **25.6** | 4.0 | ug/l | 25.0 | ND | 102 | 70-145 | 0.4 | 20 | |
| **1,2,3-Trichloropropane** | **20.5** | 1.0 | ug/l | 25.0 | ND | 82 | 20-160 | 19 | 20 | |
| **1,2,4-Trimethylbenzene** | **30.8** | 1.0 | ug/l | 25.0 | 2.3 | 114 | 70-135 | 1 | 20 | |
| **1,3,5-Trimethylbenzene** | **29.1** | 1.0 | ug/l | 25.0 | ND | 116 | 80-125 | 5 | 20 | |
| **Vinyl acetate** | **21.0** | 5.0 | ug/l | 25.0 | ND | 84 | 25-130 | 20 | 20 | |
| **Vinyl chloride** | **21.7** | 1.0 | ug/l | 25.0 | ND | 87 | 25-135 | 0.9 | 20 | |
| **Xylenes, Total** | **82.2** | 3.0 | ug/l | 75.0 | ND | 110 | 80-120 | 0.1 | 20 | |
| *Surrogate: Dibromofluoromethane* | *24.1* | | *ug/l* | *25.0* | | *96* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *27.9* | | *ug/l* | *25.0* | | *112* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.1* | | *ug/l* | *25.0* | | *104* | *80-120* | | | |

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Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1L2701 Extracted: 12/27/01** | | | | | | | | | | |
| **Blank Analyzed: 12/27/01 (P1L2701-BLK1)** | | | | | | | | | | |
| Arsenic | ND | 0.050 | mg/l | | | | | | | |
| Chromium | ND | 0.010 | mg/l | | | | | | | |
| Iron | ND | 0.20 | mg/l | | | | | | | |
| Manganese | ND | 0.020 | mg/l | | | | | | | |
| Nickel | ND | 0.050 | mg/l | | | | | | | |
| **LCS Analyzed: 12/27/01 (P1L2701-BS1)** | | | | | | | | | | |
| **Arsenic** | **0.960** | 0.050 | mg/l | 1.00 | | 96 | 85-115 | | | |
| **Chromium** | **0.934** | 0.010 | mg/l | 1.00 | | 93 | 85-115 | | | |
| **Iron** | **9.76** | 0.20 | mg/l | 10.0 | | 98 | 85-115 | | | |
| **Manganese** | **0.939** | 0.020 | mg/l | 1.00 | | 94 | 85-115 | | | |
| **Nickel** | **0.934** | 0.050 | mg/l | 1.00 | | 93 | 85-115 | | | |
| **LCS Dup Analyzed: 12/27/01 (P1L2701-BSD1)** | | | | | | | | | | |
| **Arsenic** | **0.961** | 0.050 | mg/l | 1.00 | | 96 | 85-115 | 0.1 | 20 | |
| **Chromium** | **0.936** | 0.010 | mg/l | 1.00 | | 94 | 85-115 | 0.2 | 20 | |
| **Iron** | **9.72** | 0.20 | mg/l | 10.0 | | 97 | 85-115 | 0.4 | 20 | |
| **Manganese** | **0.938** | 0.020 | mg/l | 1.00 | | 94 | 85-115 | 0.1 | 20 | |
| **Nickel** | **0.932** | 0.050 | mg/l | 1.00 | | 93 | 85-115 | 0.2 | 20 | |
| **Matrix Spike Analyzed: 12/27/01 (P1L2701-MS1)** | | | | | **Source: PKL0425-04** | | | | | |
| **Arsenic** | **1.04** | 0.050 | mg/l | 1.00 | ND | 104 | 70-130 | | | |
| **Chromium** | **0.912** | 0.010 | mg/l | 1.00 | ND | 91 | 70-130 | | | |
| **Iron** | **9.55** | 0.20 | mg/l | 10.0 | ND | 96 | 70-130 | | | |
| **Manganese** | **0.975** | 0.020 | mg/l | 1.00 | 0.051 | 92 | 70-130 | | | |
| **Nickel** | **0.912** | 0.050 | mg/l | 1.00 | ND | 90 | 70-130 | | | |
| **Matrix Spike Dup Analyzed: 12/27/01 (P1L2701-MSD1)** | | | | | **Source: PKL0425-04** | | | | | |
| **Arsenic** | **1.06** | 0.050 | mg/l | 1.00 | ND | 106 | 70-130 | 2 | 20 | |
| **Chromium** | **0.929** | 0.010 | mg/l | 1.00 | ND | 93 | 70-130 | 2 | 20 | |
| **Iron** | **9.80** | 0.20 | mg/l | 10.0 | ND | 98 | 70-130 | 3 | 20 | |
| **Manganese** | **0.988** | 0.020 | mg/l | 1.00 | 0.051 | 94 | 70-130 | 1 | 20 | |
| **Nickel** | **0.926** | 0.050 | mg/l | 1.00 | ND | 91 | 70-130 | 2 | 20 | |

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Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1L3123 Extracted: 12/31/01** | | | | | | | | | | |
| **Blank Analyzed: 01/02/02 (P1L3123-BLK1)** | | | | | | | | | | |
| Arsenic | ND | 0.050 | mg/l | | | | | | | |
| Chromium | ND | 0.010 | mg/l | | | | | | | |
| Iron | ND | 0.20 | mg/l | | | | | | | |
| Manganese | ND | 0.020 | mg/l | | | | | | | |
| Nickel | ND | 0.050 | mg/l | | | | | | | |
| **Blank Analyzed: 01/02/02 (P1L3123-BLK2)** | | | | | | | | | | |
| Arsenic | ND | 0.050 | mg/l | | | | | | | |
| Chromium | ND | 0.010 | mg/l | | | | | | | |
| Iron | ND | 0.20 | mg/l | | | | | | | |
| Manganese | ND | 0.020 | mg/l | | | | | | | |
| Nickel | ND | 0.050 | mg/l | | | | | | | |
| **LCS Analyzed: 01/02/02 (P1L3123-BS1)** | | | | | | | | | | |
| **Arsenic** | **1.04** | 0.050 | mg/l | 1.00 | | 104 | 85-115 | | | |
| **Chromium** | **0.996** | 0.010 | mg/l | 1.00 | | 100 | 85-115 | | | |
| **Iron** | **10.2** | 0.20 | mg/l | 10.0 | | 102 | 85-115 | | | |
| **Manganese** | **1.00** | 0.020 | mg/l | 1.00 | | 100 | 85-115 | | | |
| **Nickel** | **0.983** | 0.050 | mg/l | 1.00 | | 98 | 85-115 | | | |
| **LCS Dup Analyzed: 01/02/02 (P1L3123-BSD1)** | | | | | | | | | | |
| **Arsenic** | **1.04** | 0.050 | mg/l | 1.00 | | 104 | 85-115 | 0 | 20 | |
| **Chromium** | **1.01** | 0.010 | mg/l | 1.00 | | 101 | 85-115 | 1 | 20 | |
| **Iron** | **10.3** | 0.20 | mg/l | 10.0 | | 103 | 85-115 | 1 | 20 | |
| **Manganese** | **1.01** | 0.020 | mg/l | 1.00 | | 101 | 85-115 | 1 | 20 | |
| **Nickel** | **0.993** | 0.050 | mg/l | 1.00 | | 99 | 85-115 | 1 | 20 | |
| **Matrix Spike Analyzed: 01/02/02 (P1L3123-MS1)** | | | | | **Source: PKL0453-02** | | | | | |
| **Arsenic** | **1.11** | 0.050 | mg/l | 1.00 | ND | 109 | 70-130 | | | |
| **Chromium** | **1.02** | 0.010 | mg/l | 1.00 | ND | 102 | 70-130 | | | |
| **Iron** | **13.1** | 0.20 | mg/l | 10.0 | 2.5 | 106 | 70-130 | | | |
| **Manganese** | **2.90** | 0.020 | mg/l | 1.00 | 1.9 | 100 | 70-130 | | | |
| **Nickel** | **1.00** | 0.050 | mg/l | 1.00 | ND | 99 | 70-130 | | | |

Debbie Fuller
Project Manager

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P1L3123 Extracted: 12/31/01** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 01/02/02 (P1L3123-MSD1)** | | | | | **Source: PKL0453-02** | | | | | |
| **Arsenic** | **1.12** | 0.050 | mg/l | 1.00 | ND | 110 | 70-130 | 0.9 | 20 | |
| **Chromium** | **1.01** | 0.010 | mg/l | 1.00 | ND | 101 | 70-130 | 1 | 20 | |
| **Iron** | **13.0** | 0.20 | mg/l | 10.0 | 2.5 | 105 | 70-130 | 0.8 | 20 | |
| **Manganese** | **2.89** | 0.020 | mg/l | 1.00 | 1.9 | 99 | 70-130 | 0.3 | 20 | |
| **Nickel** | **0.996** | 0.050 | mg/l | 1.00 | ND | 99 | 70-130 | 0.4 | 20 | |
| **Batch: P2A0203 Extracted: 01/02/02** | | | | | | | | | | |
| **Blank Analyzed: 01/03/02 (P2A0203-BLK1)** | | | | | | | | | | |
| Arsenic | ND | 0.050 | mg/l | | | | | | | |
| Chromium | ND | 0.010 | mg/l | | | | | | | |
| Iron | ND | 0.20 | mg/l | | | | | | | |
| Manganese | ND | 0.020 | mg/l | | | | | | | |
| Nickel | ND | 0.050 | mg/l | | | | | | | |
| **LCS Analyzed: 01/03/02 (P2A0203-BS1)** | | | | | | | | | | |
| **Arsenic** | **1.03** | 0.050 | mg/l | 1.00 | | 103 | 85-115 | | | |
| **Chromium** | **0.989** | 0.010 | mg/l | 1.00 | | 99 | 85-115 | | | |
| **Iron** | **10.4** | 0.20 | mg/l | 10.0 | | 104 | 85-115 | | | |
| **Manganese** | **0.999** | 0.020 | mg/l | 1.00 | | 100 | 85-115 | | | |
| **Nickel** | **0.991** | 0.050 | mg/l | 1.00 | | 99 | 85-115 | | | |
| **LCS Dup Analyzed: 01/03/02 (P2A0203-BSD1)** | | | | | | | | | | |
| **Arsenic** | **1.01** | 0.050 | mg/l | 1.00 | | 101 | 85-115 | 2 | 20 | |
| **Chromium** | **0.969** | 0.010 | mg/l | 1.00 | | 97 | 85-115 | 2 | 20 | |
| **Iron** | **10.2** | 0.20 | mg/l | 10.0 | | 102 | 85-115 | 2 | 20 | |
| **Manganese** | **0.981** | 0.020 | mg/l | 1.00 | | 98 | 85-115 | 2 | 20 | |
| **Nickel** | **0.972** | 0.050 | mg/l | 1.00 | | 97 | 85-115 | 2 | 20 | |

Debbie Fuller
Project Manager

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P2A0203 Extracted: 01/02/02** | | | | | | | | | | |
| **Matrix Spike Analyzed: 01/03/02 (P2A0203-MS1)** | | | | | **Source: PKL0434-03** | | | | | |
| **Arsenic** | **1.03** | 0.050 | mg/l | 1.00 | ND | 103 | 70-130 | | | |
| **Chromium** | **0.956** | 0.010 | mg/l | 1.00 | ND | 95 | 70-130 | | | |
| **Iron** | **10.1** | 0.20 | mg/l | 10.0 | ND | 101 | 70-130 | | | |
| **Manganese** | **0.972** | 0.020 | mg/l | 1.00 | ND | 97 | 70-130 | | | |
| **Nickel** | **0.945** | 0.050 | mg/l | 1.00 | ND | 94 | 70-130 | | | |
| **Matrix Spike Dup Analyzed: 01/03/02 (P2A0203-MSD1)** | | | | | **Source: PKL0434-03** | | | | | |
| **Arsenic** | **1.05** | 0.050 | mg/l | 1.00 | ND | 105 | 70-130 | 2 | 20 | |
| **Chromium** | **0.975** | 0.010 | mg/l | 1.00 | ND | 97 | 70-130 | 2 | 20 | |
| **Iron** | **10.2** | 0.20 | mg/l | 10.0 | ND | 102 | 70-130 | 1 | 20 | |
| **Manganese** | **0.982** | 0.020 | mg/l | 1.00 | ND | 98 | 70-130 | 1 | 20 | |
| **Nickel** | **0.952** | 0.050 | mg/l | 1.00 | ND | 95 | 70-130 | 0.7 | 20 | |
| **Batch: P2A0406 Extracted: 01/04/02** | | | | | | | | | | |
| **Blank Analyzed: 01/07/02 (P2A0406-BLK1)** | | | | | | | | | | |
| Arsenic | ND | 0.050 | mg/l | | | | | | | |
| Chromium | ND | 0.010 | mg/l | | | | | | | |
| Iron | ND | 0.20 | mg/l | | | | | | | |
| Manganese | ND | 0.020 | mg/l | | | | | | | |
| Nickel | ND | 0.050 | mg/l | | | | | | | |
| **Blank Analyzed: 01/07/02 (P2A0406-BLK2)** | | | | | | | | | | |
| Arsenic | ND | 0.050 | mg/l | | | | | | | |
| Chromium | ND | 0.010 | mg/l | | | | | | | |
| Iron | ND | 0.20 | mg/l | | | | | | | |
| Manganese | ND | 0.020 | mg/l | | | | | | | |
| Nickel | ND | 0.050 | mg/l | | | | | | | |

Debbie Fuller
Project Manager

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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P2A0406 Extracted: 01/04/02** | | | | | | | | | | |
| **LCS Analyzed: 01/07/02 (P2A0406-BS1)** | | | | | | | | | | |
| **Arsenic** | **1.02** | 0.050 | mg/l | 1.00 | | 102 | 85-115 | | | |
| **Chromium** | **0.984** | 0.010 | mg/l | 1.00 | | 98 | 85-115 | | | |
| **Iron** | **10.1** | 0.20 | mg/l | 10.0 | | 101 | 85-115 | | | |
| **Manganese** | **0.993** | 0.020 | mg/l | 1.00 | | 99 | 85-115 | | | |
| **Nickel** | **0.980** | 0.050 | mg/l | 1.00 | | 98 | 85-115 | | | |
| **LCS Dup Analyzed: 01/07/02 (P2A0406-BSD1)** | | | | | | | | | | |
| **Arsenic** | **1.05** | 0.050 | mg/l | 1.00 | | 105 | 85-115 | 3 | 20 | |
| **Chromium** | **1.01** | 0.010 | mg/l | 1.00 | | 101 | 85-115 | 3 | 20 | |
| **Iron** | **10.4** | 0.20 | mg/l | 10.0 | | 104 | 85-115 | 3 | 20 | |
| **Manganese** | **1.01** | 0.020 | mg/l | 1.00 | | 101 | 85-115 | 2 | 20 | |
| **Nickel** | **1.00** | 0.050 | mg/l | 1.00 | | 100 | 85-115 | 2 | 20 | |
| **Matrix Spike Analyzed: 01/07/02 (P2A0406-MS1)** | | | | | **Source: PKL0435-14** | | | | | |
| **Arsenic** | **1.05** | 0.050 | mg/l | 1.00 | ND | 103 | 70-130 | | | |
| **Chromium** | **0.970** | 0.010 | mg/l | 1.00 | ND | 97 | 70-130 | | | |
| **Iron** | **16.8** | 0.20 | mg/l | 10.0 | 7.0 | 98 | 70-130 | | | |
| **Manganese** | **7.53** | 0.020 | mg/l | 1.00 | 6.7 | 83 | 70-130 | | | |
| **Nickel** | **0.941** | 0.050 | mg/l | 1.00 | ND | 94 | 70-130 | | | |
| **Matrix Spike Dup Analyzed: 01/07/02 (P2A0406-MSD1)** | | | | | **Source: PKL0435-14** | | | | | |
| **Arsenic** | **1.07** | 0.050 | mg/l | 1.00 | ND | 105 | 70-130 | 2 | 20 | |
| **Chromium** | **0.978** | 0.010 | mg/l | 1.00 | ND | 98 | 70-130 | 0.8 | 20 | |
| **Iron** | **16.7** | 0.20 | mg/l | 10.0 | 7.0 | 97 | 70-130 | 0.6 | 20 | |
| **Manganese** | **7.47** | 0.020 | mg/l | 1.00 | 6.7 | 77 | 70-130 | 0.8 | 20 | |
| **Nickel** | **0.935** | 0.050 | mg/l | 1.00 | ND | 93 | 70-130 | 0.6 | 20 | |

Debbie Fuller
Project Manager

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4634 S. 36th Place
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Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130
Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

METHOD BLANK/QC DATA

# TOTAL RECOVERABLE METALS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P2A0807 Extracted: 01/08/02** | | | | | | | | | | |
| **Blank Analyzed: 01/09/02 (P2A0807-BLK1)** | | | | | | | | | | |
| Arsenic | ND | 0.050 | mg/l | | | | | | | |
| Chromium | ND | 0.010 | mg/l | | | | | | | |
| Iron | ND | 0.20 | mg/l | | | | | | | |
| Manganese | ND | 0.020 | mg/l | | | | | | | |
| Nickel | ND | 0.050 | mg/l | | | | | | | |
| **LCS Analyzed: 01/09/02 (P2A0807-BS1)** | | | | | | | | | | |
| **Arsenic** | **0.987** | 0.050 | mg/l | 1.00 | | 99 | 85-115 | | | |
| **Chromium** | **0.966** | 0.010 | mg/l | 1.00 | | 97 | 85-115 | | | |
| **Iron** | **9.62** | 0.20 | mg/l | 10.0 | | 96 | 85-115 | | | |
| **Manganese** | **0.972** | 0.020 | mg/l | 1.00 | | 97 | 85-115 | | | |
| **Nickel** | **0.954** | 0.050 | mg/l | 1.00 | | 95 | 85-115 | | | |
| **LCS Dup Analyzed: 01/09/02 (P2A0807-BSD1)** | | | | | | | | | | |
| **Arsenic** | **0.991** | 0.050 | mg/l | 1.00 | | 99 | 85-115 | 0.4 | 20 | |
| **Chromium** | **0.969** | 0.010 | mg/l | 1.00 | | 97 | 85-115 | 0.3 | 20 | |
| **Iron** | **9.62** | 0.20 | mg/l | 10.0 | | 96 | 85-115 | 0 | 20 | |
| **Manganese** | **0.974** | 0.020 | mg/l | 1.00 | | 97 | 85-115 | 0.2 | 20 | |
| **Nickel** | **0.955** | 0.050 | mg/l | 1.00 | | 96 | 85-115 | 0.1 | 20 | |
| **Matrix Spike Analyzed: 01/09/02 (P2A0807-MS1)** | | | | | **Source: PLA0034-01** | | | | | |
| **Arsenic** | **1.01** | 0.050 | mg/l | 1.00 | ND | 101 | 70-130 | | | |
| **Chromium** | **0.953** | 0.010 | mg/l | 1.00 | ND | 95 | 70-130 | | | |
| **Iron** | **9.71** | 0.20 | mg/l | 10.0 | ND | 96 | 70-130 | | | |
| **Manganese** | **0.970** | 0.020 | mg/l | 1.00 | ND | 97 | 70-130 | | | |
| **Nickel** | **0.984** | 0.050 | mg/l | 1.00 | ND | 94 | 70-130 | | | |
| **Matrix Spike Dup Analyzed: 01/09/02 (P2A0807-MSD1)** | | | | | **Source: PLA0034-01** | | | | | |
| **Arsenic** | **1.02** | 0.050 | mg/l | 1.00 | ND | 102 | 70-130 | 1 | 20 | |
| **Chromium** | **0.969** | 0.010 | mg/l | 1.00 | ND | 96 | 70-130 | 2 | 20 | |
| **Iron** | **9.83** | 0.20 | mg/l | 10.0 | ND | 97 | 70-130 | 1 | 20 | |
| **Manganese** | **0.981** | 0.020 | mg/l | 1.00 | ND | 98 | 70-130 | 1 | 20 | |
| **Nickel** | **0.998** | 0.050 | mg/l | 1.00 | ND | 95 | 70-130 | 1 | 20 | |



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10 (PCN) 4130

Report Number: PKL0435

Sampled: 12/20/01-12/21/01
Received: 12/22/01

## METHOD BLANK/QC DATA

## DATA QUALIFIERS AND DEFINITIONS

**N1** See case narrative.

**N2** See corrective action report.

**R4** MS/MSD RPD exceeded the method control limit. Recovery met acceptance criteria.

**ND** Analyte NOT DETECTED at or above the reporting limit

**NR** Not reported.

**RPD** Relative Percent Difference



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2520 E. Sunset Rd., Suite 3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

# CHAIN OF CUSTODY FORM



Client Name/Address: LAW 4634 S 36th Place Phx

Project/PO Number: 7021-0-015C

Project Manager: Jim Clarke

Phone Number: 602/370250

Sampler: Patrick Cook

Fax Number: (602)437-3675

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date | Sampling Time | Preservatives | Analysis Required: 8260 Low, Ar Cr Fe Mn Ni | Special Instructions |
|---|---|---|---|---|---|---|---|---|
| MW-2D | W | VOA | 3 | 12/2/01 | 1153 | HCl | ✓ | PEL0435-01 |
| MW-2D | | POLY | 1 | | 1153 | HNO3 | ✓ | |
| MW-35 | | VOA | 3 | | 1317 | HCl | ✓ | 02 |
| MW-35 | | POLY | 1 | | 1317 | HNO3 | ✓ | |
| MW-5D | | VOA | 3 | | 1120 | HCl | ✓ | 03 |
| MW-5D | | POLY | 1 | | 1120 | HNO3 | ✓ | |
| MW-5B | | VOA | 3 | | 1405 | HCl | ✓ | 04 |
| MW-5B | | POLY | 1 | | 1405 | HNO3 | ✓ | |
| MW-AM-85 | | VOA | 3 | | 1045 | HCl | ✓ | 05 |
| MW-AM-85 | | POLY | 1 | | 1045 | HNO3 | ✓ | |
| ~~MW-9~~ | | ~~VOA~~ | ~~3~~ | | | ~~HCl~~ | | |
| ~~MW-9~~ | | | ~~1~~ | | | | | |
| ~~MW-9~~ | | ~~VOA~~ | ~~3~~ | | | ~~HCl~~ | | |
| ~~MW-9~~ | | | ~~1~~ | | | | | |

Relinquished By: Date /Time: 12/2/01 1845

Relinquished By: Date /Time:

Relinquished By: Date /Time:

Received by: Date /Time:

Received by: Date /Time: 12/2/01 ES

Received in Lab by: Date /Time: 12/2/01 1047

Turnaround Time: (Check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal ✓

Sample Integrity: (Check)
intact ✓ on ice ✓

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

TEMP 4°C

Del Mar Analytical
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# CHAIN OF CUSTODY FORM



Client Name/Address: CAW 4634 S 36TH Place Phx

Project/PO Number: 7021-0-0150

Project Manager: Jim Clarke

Phone Number: 602 437 0250

Sampler: Patrick Cook

Fax Number: 602 437 3675

Analysis Required: 8260 (Low) | AL CL 12 | MW NL

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date | Sampling Time | Preservatives | Special Instructions |
|---|---|---|---|---|---|---|---|
| MW-12 | H2O | VOA | 3 | 12/20/01 | 1440 | HCL | PEL0435-06 |
| MW-12 | ↓ | Poly | 1 | 12/20/01 | 1449 | HNO3 | |
| MW 9 130 | H2O | VOA | 3 2 | 12/21/01 | 1555 | HCL | 07 Hold |
| MW 9 130 | | Poly | 1 | | 1555 | HNO3 | ↓ |
| MW9 175 | | VOA | 3 | | 1545 | HCL | 08 |
| MW9 175 | | Poly | 1 | | 1545 | HNO3 | |
| MW9 205 | | VOA | 3 2 | | 1535 | HCL | 09 Hold |
| MW9 205 | | Poly | 1 | | 1535 | HNO3 | ↓ |
| MW 9 ~~200~~ 235 | | VOA | 3 | | 1525 | HCL | 10 |
| MW 9 ~~200~~ 235 | | Poly | 1 | | 1525 | HNO3 | ↓ |
| MW 10 170 | | VOA | 3 | | 1450 | HCL | 11 |
| MW 10 170 | | Poly | 1 | | 1450 | HNO3 | |
| MW 10 ~~200~~ 130 | | VOA | 3 | | 1505 | HCL | 12 Hold |
| MW 10 ~~200~~ 130 | ↓ | Poly | 1 | ↓ | 1505 | HNO3 | ↓ |

| | | | |
|---|---|---|---|
| Relinquished By: | Date/Time: 12/22/01 | Received by: | Date/Time: |
| Relinquished By: | Date/Time: | Received by: | Date/Time: 12/22/01 |
| Relinquished By: | Date/Time: | Received in Lab by: Ernesto | Date/Time: 12/22/01 1047 |

Turnaround Time: (Check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal ✓

Sample Integrity: (Check)
intact ____ on ice ✓

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

TEMP 4.0C

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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.2
Report Number: PLA0103

Sampled: 01/09/02
Received: 01/09/02
Issued: 1/18/02

# CASE NARRATIVE

| LABORATORY NUMBER | SAMPLE DESCRIPTION | SAMPLE MATRIX |
|---|---|---|
| PLA0103-01 | MW-5S-130 | Water |
| PLA0103-02 | MW-5S-170 | Water |
| PLA0103-03 | MW-4S-135 | Water |
| PLA0103-04 | MW-4S-175 | Water |
| PLA0103-05 | MW-2D-180 | Water |
| PLA0103-06 | MW-2D-210 | Water |
| PLA0103-07 | MW-2D-240 | Water |
| PLA0103-08 | MW-3S-225 | Water |
| PLA0103-09 | MW-1S-130 | Water |
| PLA0103-10 | MW-1S-170 | Water |
| PLA0103-11 | Trip Blank | Water |

SAMPLE RECEIPT: Samples were received intact, on ice, and with chain of custody documentation.

HOLDING TIMES: Holding times were met.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

OBSERVATIONS: Acetone is not a compound of interest, per discussion with client, and therefore cannot be used for compliance, as the CCV recovery for this compound was only 51%.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

QA/QC CRITERIA: All analyses met method criteria.

EXPLANATION OF DATA QUALIFIERS: No further explanation of data qualifiers needed.

**DEL MAR ANALYTICAL , PHOENIX (AZ0426)**

Debbie Fuller
Project Manager

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.2
Report Number: PLA0103

Sampled: 01/09/02
Received: 01/09/02

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PLA0103-01 (MW-5S-130 - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P2A1404 | 20 | ND | 1 | 1/14/02 | 1/14/02 | |
| Benzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromochloromethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromodichloromethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromoform | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromomethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 2-Butanone (MEK) | EPA 8260B | P2A1404 | 10 | ND | 1 | 1/14/02 | 1/14/02 | |
| n-Butylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| sec-Butylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| tert-Butylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Carbon Disulfide | EPA 8260B | P2A1404 | 5.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Carbon tetrachloride | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Chlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Chloroethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Chloroform | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Chloromethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 2-Chlorotoluene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 4-Chlorotoluene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Dibromochloromethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Dibromomethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,3-Dichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,4-Dichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Dichlorodifluoromethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1-Dichloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dichloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1-Dichloroethene | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| cis-1,2-Dichloroethene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| trans-1,2-Dichloroethene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dichloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,3-Dichloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 2,2-Dichloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1-Dichloropropene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| cis-1,3-Dichloropropene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| trans-1,3-Dichloropropene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Ethylbenzene | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Hexachlorobutadiene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 2-Hexanone | EPA 8260B | P2A1404 | 10 | ND | 1 | 1/14/02 | 1/14/02 | |
| Iodomethane | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Isopropylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.2
Report Number: PLA0103

Sampled: 01/09/02
Received: 01/09/02

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PLA0103-01 (MW-5S-130 - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Methylene chloride | EPA 8260B | P2A1404 | 5.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P2A1404 | 10 | ND | 1 | 1/14/02 | 1/14/02 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P2A1404 | 5.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Naphthalene | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| n-Propylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Styrene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| **Tetrachloroethene** | EPA 8260B | P2A1404 | 1.0 | **1.3** | 1 | 1/14/02 | 1/14/02 | |
| Toluene | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1,1-Trichloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1,2-Trichloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Trichloroethene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Trichlorofluoromethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2,3-Trichloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Vinyl acetate | EPA 8260B | P2A1404 | 5.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Vinyl chloride | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Xylenes, Total | EPA 8260B | P2A1404 | 3.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *96 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *108 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *100 %* | | | | |

Debbie Fuller
Project Manager

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Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.2
Report Number: PLA0103

Sampled: 01/09/02
Received: 01/09/02

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PLA0103-02 (MW-5S-170 - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P2A1404 | 20 | ND | 1 | 1/14/02 | 1/14/02 | |
| Benzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromochloromethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromodichloromethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromoform | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromomethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 2-Butanone (MEK) | EPA 8260B | P2A1404 | 10 | ND | 1 | 1/14/02 | 1/14/02 | |
| n-Butylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| sec-Butylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| tert-Butylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Carbon Disulfide | EPA 8260B | P2A1404 | 5.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Carbon tetrachloride | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Chlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Chloroethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Chloroform | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Chloromethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 2-Chlorotoluene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 4-Chlorotoluene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Dibromochloromethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Dibromomethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,3-Dichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,4-Dichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Dichlorodifluoromethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1-Dichloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dichloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1-Dichloroethene | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| cis-1,2-Dichloroethene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| trans-1,2-Dichloroethene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dichloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,3-Dichloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 2,2-Dichloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1-Dichloropropene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| cis-1,3-Dichloropropene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| trans-1,3-Dichloropropene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Ethylbenzene | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Hexachlorobutadiene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 2-Hexanone | EPA 8260B | P2A1404 | 10 | ND | 1 | 1/14/02 | 1/14/02 | |
| Iodomethane | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Isopropylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |



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Report Number: PLA0103

Sampled: 01/09/02
Received: 01/09/02

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PLA0103-02 (MW-5S-170 - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Methylene chloride | EPA 8260B | P2A1404 | 5.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P2A1404 | 10 | ND | 1 | 1/14/02 | 1/14/02 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P2A1404 | 5.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Naphthalene | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| n-Propylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Styrene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| **Tetrachloroethene** | EPA 8260B | P2A1404 | 1.0 | **1.0** | 1 | 1/14/02 | 1/14/02 | |
| Toluene | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1,1-Trichloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1,2-Trichloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Trichloroethene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Trichlorofluoromethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2,3-Trichloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Vinyl acetate | EPA 8260B | P2A1404 | 5.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Vinyl chloride | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Xylenes, Total | EPA 8260B | P2A1404 | 3.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *98 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *108 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *101 %* | | | | |

Debbie Fuller
Project Manager

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.2
Report Number: PLA0103

Sampled: 01/09/02
Received: 01/09/02

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PLA0103-03 (MW-4S-135 - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P2A1404 | 20 | ND | 1 | 1/14/02 | 1/14/02 | |
| Benzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromochloromethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromodichloromethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromoform | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromomethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 2-Butanone (MEK) | EPA 8260B | P2A1404 | 10 | ND | 1 | 1/14/02 | 1/14/02 | |
| n-Butylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| sec-Butylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| tert-Butylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| **Carbon Disulfide** | EPA 8260B | P2A1404 | 5.0 | **7.7** | 1 | 1/14/02 | 1/14/02 | |
| Carbon tetrachloride | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Chlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Chloroethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Chloroform | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Chloromethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 2-Chlorotoluene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 4-Chlorotoluene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Dibromochloromethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Dibromomethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,3-Dichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,4-Dichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Dichlorodifluoromethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1-Dichloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dichloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1-Dichloroethene | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| cis-1,2-Dichloroethene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| trans-1,2-Dichloroethene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dichloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,3-Dichloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 2,2-Dichloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1-Dichloropropene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| cis-1,3-Dichloropropene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| trans-1,3-Dichloropropene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Ethylbenzene | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Hexachlorobutadiene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 2-Hexanone | EPA 8260B | P2A1404 | 10 | ND | 1 | 1/14/02 | 1/14/02 | |
| Iodomethane | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Isopropylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.2
Report Number: PLA0103

Sampled: 01/09/02
Received: 01/09/02

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PLA0103-03 (MW-4S-135 - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Methylene chloride | EPA 8260B | P2A1404 | 5.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P2A1404 | 10 | ND | 1 | 1/14/02 | 1/14/02 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P2A1404 | 5.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Naphthalene | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| n-Propylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Styrene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Tetrachloroethene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Toluene | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1,1-Trichloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1,2-Trichloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Trichloroethene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Trichlorofluoromethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2,3-Trichloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Vinyl acetate | EPA 8260B | P2A1404 | 5.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Vinyl chloride | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Xylenes, Total | EPA 8260B | P2A1404 | 3.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *100 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *108 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *101 %* | | | | |

Debbie Fuller
Project Manager

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.2
Report Number: PLA0103

Sampled: 01/09/02
Received: 01/09/02

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PLA0103-04 (MW-4S-175 - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P2A1404 | 20 | ND | 1 | 1/14/02 | 1/14/02 | |
| Benzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromochloromethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromodichloromethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromoform | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromomethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 2-Butanone (MEK) | EPA 8260B | P2A1404 | 10 | ND | 1 | 1/14/02 | 1/14/02 | |
| n-Butylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| sec-Butylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| tert-Butylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| **Carbon Disulfide** | EPA 8260B | P2A1404 | 5.0 | **8.1** | 1 | 1/14/02 | 1/14/02 | |
| Carbon tetrachloride | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Chlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Chloroethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Chloroform | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Chloromethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 2-Chlorotoluene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 4-Chlorotoluene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Dibromochloromethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Dibromomethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,3-Dichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,4-Dichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Dichlorodifluoromethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1-Dichloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dichloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1-Dichloroethene | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| cis-1,2-Dichloroethene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| trans-1,2-Dichloroethene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dichloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,3-Dichloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 2,2-Dichloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1-Dichloropropene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| cis-1,3-Dichloropropene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| trans-1,3-Dichloropropene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Ethylbenzene | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Hexachlorobutadiene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 2-Hexanone | EPA 8260B | P2A1404 | 10 | ND | 1 | 1/14/02 | 1/14/02 | |
| Iodomethane | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Isopropylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |



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Law Engineering
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Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.2

Report Number: PLA0103

Sampled: 01/09/02
Received: 01/09/02

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PLA0103-04 (MW-4S-175 - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Methylene chloride | EPA 8260B | P2A1404 | 5.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P2A1404 | 10 | ND | 1 | 1/14/02 | 1/14/02 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P2A1404 | 5.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Naphthalene | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| n-Propylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Styrene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Tetrachloroethene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Toluene | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1,1-Trichloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1,2-Trichloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Trichloroethene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Trichlorofluoromethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2,3-Trichloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Vinyl acetate | EPA 8260B | P2A1404 | 5.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Vinyl chloride | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Xylenes, Total | EPA 8260B | P2A1404 | 3.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *98 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *107 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *98 %* | | | | |

Debbie Fuller
Project Manager

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.2
Report Number: PLA0103

Sampled: 01/09/02
Received: 01/09/02

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PLA0103-05 (MW-2D-180 - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P2A1404 | 20 | ND | 1 | 1/14/02 | 1/14/02 | |
| Benzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromochloromethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromodichloromethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromoform | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromomethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 2-Butanone (MEK) | EPA 8260B | P2A1404 | 10 | ND | 1 | 1/14/02 | 1/14/02 | |
| n-Butylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| sec-Butylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| tert-Butylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Carbon Disulfide | EPA 8260B | P2A1404 | 5.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Carbon tetrachloride | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Chlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Chloroethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Chloroform | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Chloromethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 2-Chlorotoluene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 4-Chlorotoluene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Dibromochloromethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Dibromomethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,3-Dichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,4-Dichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Dichlorodifluoromethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1-Dichloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dichloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1-Dichloroethene | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| cis-1,2-Dichloroethene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| trans-1,2-Dichloroethene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dichloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,3-Dichloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 2,2-Dichloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1-Dichloropropene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| cis-1,3-Dichloropropene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| trans-1,3-Dichloropropene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Ethylbenzene | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Hexachlorobutadiene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 2-Hexanone | EPA 8260B | P2A1404 | 10 | ND | 1 | 1/14/02 | 1/14/02 | |
| Iodomethane | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Isopropylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.2

Report Number: PLA0103

Sampled: 01/09/02
Received: 01/09/02

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PLA0103-05 (MW-2D-180 - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Methylene chloride | EPA 8260B | P2A1404 | 5.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P2A1404 | 10 | ND | 1 | 1/14/02 | 1/14/02 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P2A1404 | 5.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Naphthalene | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| n-Propylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Styrene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Tetrachloroethene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Toluene | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1,1-Trichloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1,2-Trichloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Trichloroethene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Trichlorofluoromethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2,3-Trichloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Vinyl acetate | EPA 8260B | P2A1404 | 5.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Vinyl chloride | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Xylenes, Total | EPA 8260B | P2A1404 | 3.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *98 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *107 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *98 %* | | | | |

Debbie Fuller
Project Manager

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.2
Report Number: PLA0103

Sampled: 01/09/02
Received: 01/09/02

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PLA0103-06 (MW-2D-210 - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P2A1404 | 20 | ND | 1 | 1/14/02 | 1/14/02 | |
| Benzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromochloromethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromodichloromethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromoform | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromomethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 2-Butanone (MEK) | EPA 8260B | P2A1404 | 10 | ND | 1 | 1/14/02 | 1/14/02 | |
| n-Butylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| sec-Butylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| tert-Butylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| **Carbon Disulfide** | EPA 8260B | P2A1404 | 5.0 | **5.4** | 1 | 1/14/02 | 1/14/02 | |
| Carbon tetrachloride | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Chlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Chloroethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Chloroform | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Chloromethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 2-Chlorotoluene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 4-Chlorotoluene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Dibromochloromethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Dibromomethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,3-Dichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,4-Dichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Dichlorodifluoromethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1-Dichloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dichloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1-Dichloroethene | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| cis-1,2-Dichloroethene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| trans-1,2-Dichloroethene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dichloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,3-Dichloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 2,2-Dichloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1-Dichloropropene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| cis-1,3-Dichloropropene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| trans-1,3-Dichloropropene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Ethylbenzene | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Hexachlorobutadiene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 2-Hexanone | EPA 8260B | P2A1404 | 10 | ND | 1 | 1/14/02 | 1/14/02 | |
| Iodomethane | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Isopropylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |

Debbie Fuller
Project Manager

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.2
Report Number: PLA0103

Sampled: 01/09/02
Received: 01/09/02

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PLA0103-06 (MW-2D-210 - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Methylene chloride | EPA 8260B | P2A1404 | 5.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P2A1404 | 10 | ND | 1 | 1/14/02 | 1/14/02 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P2A1404 | 5.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Naphthalene | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| n-Propylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Styrene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Tetrachloroethene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Toluene | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1,1-Trichloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1,2-Trichloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Trichloroethene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Trichlorofluoromethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2,3-Trichloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Vinyl acetate | EPA 8260B | P2A1404 | 5.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Vinyl chloride | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Xylenes, Total | EPA 8260B | P2A1404 | 3.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *100 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *108 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *99 %* | | | | |

Debbie Fuller
Project Manager

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.2

Report Number: PLA0103

Sampled: 01/09/02
Received: 01/09/02

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PLA0103-07 (MW-2D-240 - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P2A1404 | 20 | ND | 1 | 1/14/02 | 1/14/02 | |
| Benzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromochloromethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromodichloromethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromoform | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromomethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 2-Butanone (MEK) | EPA 8260B | P2A1404 | 10 | ND | 1 | 1/14/02 | 1/14/02 | |
| n-Butylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| sec-Butylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| tert-Butylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Carbon Disulfide | EPA 8260B | P2A1404 | 5.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Carbon tetrachloride | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Chlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Chloroethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Chloroform | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Chloromethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 2-Chlorotoluene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 4-Chlorotoluene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Dibromochloromethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Dibromomethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,3-Dichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,4-Dichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Dichlorodifluoromethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1-Dichloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dichloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1-Dichloroethene | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| cis-1,2-Dichloroethene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| trans-1,2-Dichloroethene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dichloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,3-Dichloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 2,2-Dichloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1-Dichloropropene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| cis-1,3-Dichloropropene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| trans-1,3-Dichloropropene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Ethylbenzene | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Hexachlorobutadiene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 2-Hexanone | EPA 8260B | P2A1404 | 10 | ND | 1 | 1/14/02 | 1/14/02 | |
| Iodomethane | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Isopropylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.2
Report Number: PLA0103

Sampled: 01/09/02
Received: 01/09/02

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PLA0103-07 (MW-2D-240 - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Methylene chloride | EPA 8260B | P2A1404 | 5.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P2A1404 | 10 | ND | 1 | 1/14/02 | 1/14/02 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P2A1404 | 5.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Naphthalene | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| n-Propylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Styrene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Tetrachloroethene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Toluene | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1,1-Trichloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1,2-Trichloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Trichloroethene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Trichlorofluoromethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2,3-Trichloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Vinyl acetate | EPA 8260B | P2A1404 | 5.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Vinyl chloride | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Xylenes, Total | EPA 8260B | P2A1404 | 3.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *95 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *107 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *96 %* | | | | |

Debbie Fuller
Project Manager

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.2
Report Number: PLA0103

Sampled: 01/09/02
Received: 01/09/02

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PLA0103-08 (MW-3S-225 - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P2A1404 | 20 | ND | 1 | 1/14/02 | 1/14/02 | |
| Benzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromochloromethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromodichloromethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromoform | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromomethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 2-Butanone (MEK) | EPA 8260B | P2A1404 | 10 | ND | 1 | 1/14/02 | 1/14/02 | |
| n-Butylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| sec-Butylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| tert-Butylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Carbon Disulfide | EPA 8260B | P2A1404 | 5.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Carbon tetrachloride | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Chlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Chloroethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Chloroform | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Chloromethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 2-Chlorotoluene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 4-Chlorotoluene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Dibromochloromethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Dibromomethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,3-Dichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,4-Dichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Dichlorodifluoromethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1-Dichloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dichloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1-Dichloroethene | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| cis-1,2-Dichloroethene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| trans-1,2-Dichloroethene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dichloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,3-Dichloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 2,2-Dichloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1-Dichloropropene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| cis-1,3-Dichloropropene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| trans-1,3-Dichloropropene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Ethylbenzene | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Hexachlorobutadiene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 2-Hexanone | EPA 8260B | P2A1404 | 10 | ND | 1 | 1/14/02 | 1/14/02 | |
| Iodomethane | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Isopropylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |

Debbie Fuller
Project Manager

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.2
Report Number: PLA0103

Sampled: 01/09/02
Received: 01/09/02

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PLA0103-08 (MW-3S-225 - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Methylene chloride | EPA 8260B | P2A1404 | 5.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P2A1404 | 10 | ND | 1 | 1/14/02 | 1/14/02 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P2A1404 | 5.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Naphthalene | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| n-Propylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Styrene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Tetrachloroethene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Toluene | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1,1-Trichloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1,2-Trichloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Trichloroethene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Trichlorofluoromethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2,3-Trichloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Vinyl acetate | EPA 8260B | P2A1404 | 5.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Vinyl chloride | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Xylenes, Total | EPA 8260B | P2A1404 | 3.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *99 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *109 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *99 %* | | | | |

Debbie Fuller
Project Manager

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.2
Report Number: PLA0103

Sampled: 01/09/02
Received: 01/09/02

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PLA0103-09 (MW-1S-130 - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P2A1404 | 20 | ND | 1 | 1/14/02 | 1/14/02 | |
| Benzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromochloromethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromodichloromethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromoform | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromomethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 2-Butanone (MEK) | EPA 8260B | P2A1404 | 10 | ND | 1 | 1/14/02 | 1/14/02 | |
| n-Butylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| sec-Butylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| tert-Butylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Carbon Disulfide | EPA 8260B | P2A1404 | 5.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Carbon tetrachloride | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Chlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Chloroethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Chloroform | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Chloromethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 2-Chlorotoluene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 4-Chlorotoluene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Dibromochloromethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Dibromomethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,3-Dichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,4-Dichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Dichlorodifluoromethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1-Dichloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dichloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1-Dichloroethene | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| cis-1,2-Dichloroethene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| trans-1,2-Dichloroethene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dichloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,3-Dichloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 2,2-Dichloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1-Dichloropropene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| cis-1,3-Dichloropropene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| trans-1,3-Dichloropropene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Ethylbenzene | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Hexachlorobutadiene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 2-Hexanone | EPA 8260B | P2A1404 | 10 | ND | 1 | 1/14/02 | 1/14/02 | |
| Iodomethane | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Isopropylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.2
Report Number: PLA0103

Sampled: 01/09/02
Received: 01/09/02

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PLA0103-09 (MW-1S-130 - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Methylene chloride | EPA 8260B | P2A1404 | 5.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P2A1404 | 10 | ND | 1 | 1/14/02 | 1/14/02 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P2A1404 | 5.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Naphthalene | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| n-Propylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Styrene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Tetrachloroethene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Toluene | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1,1-Trichloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1,2-Trichloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Trichloroethene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Trichlorofluoromethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2,3-Trichloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Vinyl acetate | EPA 8260B | P2A1404 | 5.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Vinyl chloride | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Xylenes, Total | EPA 8260B | P2A1404 | 3.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *98 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *108 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *98 %* | | | | |

Debbie Fuller
Project Manager

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.2
Report Number: PLA0103

Sampled: 01/09/02
Received: 01/09/02

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PLA0103-10 (MW-1S-170 - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P2A1404 | 20 | ND | 1 | 1/14/02 | 1/14/02 | |
| Benzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromochloromethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromodichloromethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromoform | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromomethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 2-Butanone (MEK) | EPA 8260B | P2A1404 | 10 | ND | 1 | 1/14/02 | 1/14/02 | |
| n-Butylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| sec-Butylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| tert-Butylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Carbon Disulfide | EPA 8260B | P2A1404 | 5.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Carbon tetrachloride | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Chlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Chloroethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Chloroform | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Chloromethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 2-Chlorotoluene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 4-Chlorotoluene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Dibromochloromethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Dibromomethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,3-Dichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,4-Dichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Dichlorodifluoromethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1-Dichloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dichloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1-Dichloroethene | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| cis-1,2-Dichloroethene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| trans-1,2-Dichloroethene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dichloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,3-Dichloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 2,2-Dichloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1-Dichloropropene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| cis-1,3-Dichloropropene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| trans-1,3-Dichloropropene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Ethylbenzene | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Hexachlorobutadiene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 2-Hexanone | EPA 8260B | P2A1404 | 10 | ND | 1 | 1/14/02 | 1/14/02 | |
| Iodomethane | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Isopropylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.2
Report Number: PLA0103

Sampled: 01/09/02
Received: 01/09/02

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PLA0103-10 (MW-1S-170 - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Methylene chloride | EPA 8260B | P2A1404 | 5.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P2A1404 | 10 | ND | 1 | 1/14/02 | 1/14/02 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P2A1404 | 5.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Naphthalene | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| n-Propylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Styrene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Tetrachloroethene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Toluene | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1,1-Trichloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1,2-Trichloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Trichloroethene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Trichlorofluoromethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2,3-Trichloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Vinyl acetate | EPA 8260B | P2A1404 | 5.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Vinyl chloride | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Xylenes, Total | EPA 8260B | P2A1404 | 3.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *100 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *107 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *98 %* | | | | |

Debbie Fuller
Project Manager

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.2
Report Number: PLA0103

Sampled: 01/09/02
Received: 01/09/02

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PLA0103-11 (Trip Blank - Water)** | | | | | | | | |
| Acetone | EPA 8260B | P2A1404 | 20 | ND | 1 | 1/14/02 | 1/14/02 | |
| Benzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromochloromethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromodichloromethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromoform | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Bromomethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 2-Butanone (MEK) | EPA 8260B | P2A1404 | 10 | ND | 1 | 1/14/02 | 1/14/02 | |
| n-Butylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| sec-Butylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| tert-Butylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Carbon Disulfide | EPA 8260B | P2A1404 | 5.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Carbon tetrachloride | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Chlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Chloroethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Chloroform | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Chloromethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 2-Chlorotoluene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 4-Chlorotoluene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Dibromochloromethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Dibromomethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,3-Dichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,4-Dichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Dichlorodifluoromethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1-Dichloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dichloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1-Dichloroethene | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| cis-1,2-Dichloroethene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| trans-1,2-Dichloroethene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2-Dichloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,3-Dichloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 2,2-Dichloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1-Dichloropropene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| cis-1,3-Dichloropropene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| trans-1,3-Dichloropropene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Ethylbenzene | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Hexachlorobutadiene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 2-Hexanone | EPA 8260B | P2A1404 | 10 | ND | 1 | 1/14/02 | 1/14/02 | |
| Iodomethane | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Isopropylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.2
Report Number: PLA0103

Sampled: 01/09/02
Received: 01/09/02

## VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| | | | ug/l | ug/l | | | | |
| **Sample ID: PLA0103-11 (Trip Blank - Water)** | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Methylene chloride | EPA 8260B | P2A1404 | 5.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P2A1404 | 10 | ND | 1 | 1/14/02 | 1/14/02 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P2A1404 | 5.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Naphthalene | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| n-Propylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Styrene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Tetrachloroethene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Toluene | EPA 8260B | P2A1404 | 2.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1,1-Trichloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,1,2-Trichloroethane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Trichloroethene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Trichlorofluoromethane | EPA 8260B | P2A1404 | 4.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2,3-Trichloropropane | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Vinyl acetate | EPA 8260B | P2A1404 | 5.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Vinyl chloride | EPA 8260B | P2A1404 | 1.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| Xylenes, Total | EPA 8260B | P2A1404 | 3.0 | ND | 1 | 1/14/02 | 1/14/02 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *96 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *107 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *101 %* | | | | |

**DEL MAR ANALYTICAL, PHOENIX (AZ0426)**

Debbie Fuller
Project Manager

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Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.2
Report Number: PLA0103

Sampled: 01/09/02
Received: 01/09/02

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P2A1404 Extracted: 01/14/02** | | | | | | | | | | |
| **Blank Analyzed: 01/14/02 (P2A1404-BLK1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | |
| Benzene | ND | 1.0 | ug/l | | | | | | | |
| Bromobenzene | ND | 1.0 | ug/l | | | | | | | |
| Bromochloromethane | ND | 1.0 | ug/l | | | | | | | |
| Bromodichloromethane | ND | 1.0 | ug/l | | | | | | | |
| Bromoform | ND | 2.0 | ug/l | | | | | | | |
| Bromomethane | ND | 4.0 | ug/l | | | | | | | |
| 2-Butanone (MEK) | ND | 10 | ug/l | | | | | | | |
| n-Butylbenzene | ND | 1.0 | ug/l | | | | | | | |
| sec-Butylbenzene | ND | 1.0 | ug/l | | | | | | | |
| tert-Butylbenzene | ND | 1.0 | ug/l | | | | | | | |
| Carbon Disulfide | ND | 5.0 | ug/l | | | | | | | |
| Carbon tetrachloride | ND | 1.0 | ug/l | | | | | | | |
| Chlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| Chloroethane | ND | 4.0 | ug/l | | | | | | | |
| Chloroform | ND | 1.0 | ug/l | | | | | | | |
| Chloromethane | ND | 4.0 | ug/l | | | | | | | |
| 2-Chlorotoluene | ND | 1.0 | ug/l | | | | | | | |
| 4-Chlorotoluene | ND | 1.0 | ug/l | | | | | | | |
| Dibromochloromethane | ND | 1.0 | ug/l | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | ug/l | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | ug/l | | | | | | | |
| Dibromomethane | ND | 1.0 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| Dichlorodifluoromethane | ND | 4.0 | ug/l | | | | | | | |
| 1,1-Dichloroethane | ND | 1.0 | ug/l | | | | | | | |
| 1,2-Dichloroethane | ND | 1.0 | ug/l | | | | | | | |
| 1,1-Dichloroethene | ND | 2.0 | ug/l | | | | | | | |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/l | | | | | | | |
| trans-1,2-Dichloroethene | ND | 1.0 | ug/l | | | | | | | |
| 1,2-Dichloropropane | ND | 1.0 | ug/l | | | | | | | |



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Sampled: 01/09/02
Received: 01/09/02

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P2A1404 Extracted: 01/14/02** | | | | | | | | | | |
| **Blank Analyzed: 01/14/02 (P2A1404-BLK1)** | | | | | | | | | | |
| 1,3-Dichloropropane | ND | 1.0 | ug/l | | | | | | | |
| 2,2-Dichloropropane | ND | 1.0 | ug/l | | | | | | | |
| 1,1-Dichloropropene | ND | 1.0 | ug/l | | | | | | | |
| cis-1,3-Dichloropropene | ND | 1.0 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 1.0 | ug/l | | | | | | | |
| Ethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 1.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 10 | ug/l | | | | | | | |
| Iodomethane | ND | 2.0 | ug/l | | | | | | | |
| Isopropylbenzene | ND | 1.0 | ug/l | | | | | | | |
| p-Isopropyltoluene | ND | 1.0 | ug/l | | | | | | | |
| Methylene chloride | ND | 5.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 5.0 | ug/l | | | | | | | |
| Naphthalene | ND | 2.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 1.0 | ug/l | | | | | | | |
| Styrene | ND | 1.0 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/l | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 1.0 | ug/l | | | | | | | |
| Toluene | ND | 2.0 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/l | | | | | | | |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/l | | | | | | | |
| Trichloroethene | ND | 1.0 | ug/l | | | | | | | |
| Trichlorofluoromethane | ND | 4.0 | ug/l | | | | | | | |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/l | | | | | | | |
| Vinyl acetate | ND | 5.0 | ug/l | | | | | | | |
| Vinyl chloride | ND | 1.0 | ug/l | | | | | | | |
| Xylenes, Total | ND | 3.0 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *24.2* | | *ug/l* | *25.0* | | *97* | *80-120* | | | |

Debbie Fuller
Project Manager

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Report Number: PLA0103

Sampled: 01/09/02
Received: 01/09/02

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P2A1404 Extracted: 01/14/02** | | | | | | | | | | |
| **Blank Analyzed: 01/14/02 (P2A1404-BLK1)** | | | | | | | | | | |
| *Surrogate: Toluene-d8* | *26.9* | | *ug/l* | *25.0* | | *108* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.6* | | *ug/l* | *25.0* | | *102* | *80-120* | | | |
| **LCS Analyzed: 01/14/02 (P2A1404-BS1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | 25.0 | | 51 | 30-200 | | | |
| **Benzene** | **26.9** | 1.0 | ug/l | 25.0 | | 108 | 80-120 | | | |
| **Bromobenzene** | **27.0** | 1.0 | ug/l | 25.0 | | 108 | 80-120 | | | |
| **Bromochloromethane** | **23.6** | 1.0 | ug/l | 25.0 | | 94 | 80-120 | | | |
| **Bromodichloromethane** | **24.6** | 1.0 | ug/l | 25.0 | | 98 | 80-130 | | | |
| **Bromoform** | **25.6** | 2.0 | ug/l | 25.0 | | 102 | 60-140 | | | |
| **Bromomethane** | **26.7** | 4.0 | ug/l | 25.0 | | 107 | 60-150 | | | |
| **2-Butanone (MEK)** | **17.0** | 10 | ug/l | 25.0 | | 68 | 30-185 | | | |
| **n-Butylbenzene** | **26.0** | 1.0 | ug/l | 25.0 | | 104 | 75-130 | | | |
| **sec-Butylbenzene** | **26.0** | 1.0 | ug/l | 25.0 | | 104 | 80-125 | | | |
| **tert-Butylbenzene** | **25.5** | 1.0 | ug/l | 25.0 | | 102 | 80-120 | | | |
| **Carbon Disulfide** | **23.0** | 5.0 | ug/l | 25.0 | | 92 | 65-120 | | | |
| **Carbon tetrachloride** | **26.0** | 1.0 | ug/l | 25.0 | | 104 | 75-150 | | | |
| **Chlorobenzene** | **25.3** | 1.0 | ug/l | 25.0 | | 101 | 80-120 | | | |
| **Chloroethane** | **26.0** | 4.0 | ug/l | 25.0 | | 104 | 80-125 | | | |
| **Chloroform** | **24.2** | 1.0 | ug/l | 25.0 | | 97 | 80-120 | | | |
| **Chloromethane** | **23.0** | 4.0 | ug/l | 25.0 | | 92 | 60-125 | | | |
| **2-Chlorotoluene** | **25.9** | 1.0 | ug/l | 25.0 | | 104 | 80-120 | | | |
| **4-Chlorotoluene** | **25.8** | 1.0 | ug/l | 25.0 | | 103 | 80-120 | | | |
| **Dibromochloromethane** | **21.9** | 1.0 | ug/l | 25.0 | | 88 | 70-150 | | | |
| **1,2-Dibromo-3-chloropropane** | **22.4** | 1.0 | ug/l | 25.0 | | 90 | 50-145 | | | |
| **1,2-Dibromoethane (EDB)** | **25.1** | 1.0 | ug/l | 25.0 | | 100 | 75-120 | | | |
| **Dibromomethane** | **24.0** | 1.0 | ug/l | 25.0 | | 96 | 80-120 | | | |
| **1,2-Dichlorobenzene** | **24.4** | 1.0 | ug/l | 25.0 | | 98 | 80-120 | | | |
| **1,3-Dichlorobenzene** | **24.8** | 1.0 | ug/l | 25.0 | | 99 | 80-120 | | | |
| **1,4-Dichlorobenzene** | **24.5** | 1.0 | ug/l | 25.0 | | 98 | 80-120 | | | |
| **Dichlorodifluoromethane** | **26.2** | 4.0 | ug/l | 25.0 | | 105 | 25-140 | | | |
| **1,1-Dichloroethane** | **23.8** | 1.0 | ug/l | 25.0 | | 95 | 80-120 | | | |
| **1,2-Dichloroethane** | **22.7** | 1.0 | ug/l | 25.0 | | 91 | 80-120 | | | |
| **1,1-Dichloroethene** | **24.9** | 2.0 | ug/l | 25.0 | | 100 | 80-120 | | | |
| **cis-1,2-Dichloroethene** | **25.2** | 1.0 | ug/l | 25.0 | | 101 | 80-120 | | | |
| **trans-1,2-Dichloroethene** | **23.7** | 1.0 | ug/l | 25.0 | | 95 | 80-120 | | | |



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Report Number: PLA0103

Sampled: 01/09/02
Received: 01/09/02

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P2A1404 Extracted: 01/14/02** | | | | | | | | | | |
| **LCS Analyzed: 01/14/02 (P2A1404-BS1)** | | | | | | | | | | |
| 1,2-Dichloropropane | 26.5 | 1.0 | ug/l | 25.0 | | 106 | 80-120 | | | |
| 1,3-Dichloropropane | 26.4 | 1.0 | ug/l | 25.0 | | 106 | 80-120 | | | |
| 2,2-Dichloropropane | 24.5 | 1.0 | ug/l | 25.0 | | 98 | 75-135 | | | |
| 1,1-Dichloropropene | 27.2 | 1.0 | ug/l | 25.0 | | 109 | 80-120 | | | |
| cis-1,3-Dichloropropene | 26.6 | 1.0 | ug/l | 25.0 | | 106 | 80-120 | | | |
| trans-1,3-Dichloropropene | 23.2 | 1.0 | ug/l | 25.0 | | 93 | 80-120 | | | |
| Ethylbenzene | 27.1 | 2.0 | ug/l | 25.0 | | 108 | 80-120 | | | |
| Hexachlorobutadiene | 25.8 | 1.0 | ug/l | 25.0 | | 103 | 60-145 | | | |
| 2-Hexanone | 17.0 | 10 | ug/l | 25.0 | | 68 | 50-170 | | | |
| Iodomethane | 25.2 | 2.0 | ug/l | 25.0 | | 101 | 40-155 | | | |
| Isopropylbenzene | 26.6 | 1.0 | ug/l | 25.0 | | 106 | 80-120 | | | |
| p-Isopropyltoluene | 25.1 | 1.0 | ug/l | 25.0 | | 100 | 80-120 | | | |
| Methylene chloride | 22.3 | 5.0 | ug/l | 25.0 | | 89 | 80-120 | | | |
| 4-Methyl-2-pentanone (MIBK) | 21.4 | 10 | ug/l | 25.0 | | 86 | 70-140 | | | |
| Methyl-tert-butyl Ether (MTBE) | 23.0 | 5.0 | ug/l | 25.0 | | 92 | 75-135 | | | |
| Naphthalene | 28.0 | 2.0 | ug/l | 25.0 | | 112 | 70-130 | | | |
| n-Propylbenzene | 27.0 | 1.0 | ug/l | 25.0 | | 108 | 80-120 | | | |
| Styrene | 27.4 | 1.0 | ug/l | 25.0 | | 110 | 80-120 | | | |
| 1,1,1,2-Tetrachloroethane | 27.1 | 1.0 | ug/l | 25.0 | | 108 | 65-150 | | | |
| 1,1,2,2-Tetrachloroethane | 26.5 | 2.0 | ug/l | 25.0 | | 106 | 70-130 | | | |
| Tetrachloroethene | 27.5 | 1.0 | ug/l | 25.0 | | 110 | 80-125 | | | |
| Toluene | 27.2 | 2.0 | ug/l | 25.0 | | 109 | 80-120 | | | |
| 1,2,3-Trichlorobenzene | 28.1 | 1.0 | ug/l | 25.0 | | 112 | 75-125 | | | |
| 1,2,4-Trichlorobenzene | 25.5 | 1.0 | ug/l | 25.0 | | 102 | 80-120 | | | |
| 1,1,1-Trichloroethane | 24.7 | 1.0 | ug/l | 25.0 | | 99 | 80-120 | | | |
| 1,1,2-Trichloroethane | 25.4 | 1.0 | ug/l | 25.0 | | 102 | 80-120 | | | |
| Trichloroethene | 27.1 | 1.0 | ug/l | 25.0 | | 108 | 80-120 | | | |
| Trichlorofluoromethane | 25.4 | 4.0 | ug/l | 25.0 | | 102 | 75-150 | | | |
| 1,2,3-Trichloropropane | 24.8 | 1.0 | ug/l | 25.0 | | 99 | 65-135 | | | |
| 1,2,4-Trimethylbenzene | 27.2 | 1.0 | ug/l | 25.0 | | 109 | 80-120 | | | |
| 1,3,5-Trimethylbenzene | 27.1 | 1.0 | ug/l | 25.0 | | 108 | 80-120 | | | |
| Vinyl acetate | 20.1 | 5.0 | ug/l | 25.0 | | 80 | 40-120 | | | |
| Vinyl chloride | 24.1 | 1.0 | ug/l | 25.0 | | 96 | 80-120 | | | |
| Xylenes, Total | 81.7 | 3.0 | ug/l | 75.0 | | 109 | 80-120 | | | |
| *Surrogate: Dibromofluoromethane* | *24.4* | | *ug/l* | *25.0* | | *98* | *80-120* | | | |

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Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.2
Report Number: PLA0103

Sampled: 01/09/02
Received: 01/09/02

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P2A1404 Extracted: 01/14/02** | | | | | | | | | | |
| **LCS Analyzed: 01/14/02 (P2A1404-BS1)** | | | | | | | | | | |
| *Surrogate: Toluene-d8* | *27.2* | | *ug/l* | *25.0* | | *109* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.7* | | *ug/l* | *25.0* | | *103* | *80-120* | | | |
| **LCS Dup Analyzed: 01/14/02 (P2A1404-BSD1)** | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | 25.0 | | 52 | 30-200 | 2 | 20 | |
| **Benzene** | **26.9** | 1.0 | ug/l | 25.0 | | 108 | 80-120 | 0 | 20 | |
| **Bromobenzene** | **27.4** | 1.0 | ug/l | 25.0 | | 110 | 80-120 | 1 | 20 | |
| **Bromochloromethane** | **24.0** | 1.0 | ug/l | 25.0 | | 96 | 80-120 | 2 | 20 | |
| **Bromodichloromethane** | **24.8** | 1.0 | ug/l | 25.0 | | 99 | 80-130 | 0.8 | 20 | |
| **Bromoform** | **26.3** | 2.0 | ug/l | 25.0 | | 105 | 60-140 | 3 | 20 | |
| **Bromomethane** | **26.7** | 4.0 | ug/l | 25.0 | | 107 | 60-150 | 0 | 20 | |
| **2-Butanone (MEK)** | **17.2** | 10 | ug/l | 25.0 | | 69 | 30-185 | 1 | 20 | |
| **n-Butylbenzene** | **27.4** | 1.0 | ug/l | 25.0 | | 110 | 75-130 | 5 | 20 | |
| **sec-Butylbenzene** | **26.7** | 1.0 | ug/l | 25.0 | | 107 | 80-125 | 3 | 20 | |
| **tert-Butylbenzene** | **26.3** | 1.0 | ug/l | 25.0 | | 105 | 80-120 | 3 | 20 | |
| **Carbon Disulfide** | **23.8** | 5.0 | ug/l | 25.0 | | 95 | 65-120 | 3 | 20 | |
| **Carbon tetrachloride** | **26.4** | 1.0 | ug/l | 25.0 | | 106 | 75-150 | 2 | 20 | |
| **Chlorobenzene** | **25.7** | 1.0 | ug/l | 25.0 | | 103 | 80-120 | 2 | 20 | |
| **Chloroethane** | **25.5** | 4.0 | ug/l | 25.0 | | 102 | 80-125 | 2 | 20 | |
| **Chloroform** | **24.7** | 1.0 | ug/l | 25.0 | | 99 | 80-120 | 2 | 20 | |
| **Chloromethane** | **23.2** | 4.0 | ug/l | 25.0 | | 93 | 60-125 | 0.9 | 20 | |
| **2-Chlorotoluene** | **26.7** | 1.0 | ug/l | 25.0 | | 107 | 80-120 | 3 | 20 | |
| **4-Chlorotoluene** | **26.6** | 1.0 | ug/l | 25.0 | | 106 | 80-120 | 3 | 20 | |
| **Dibromochloromethane** | **22.8** | 1.0 | ug/l | 25.0 | | 91 | 70-150 | 4 | 20 | |
| **1,2-Dibromo-3-chloropropane** | **24.7** | 1.0 | ug/l | 25.0 | | 99 | 50-145 | 10 | 20 | |
| **1,2-Dibromoethane (EDB)** | **26.2** | 1.0 | ug/l | 25.0 | | 105 | 75-120 | 4 | 20 | |
| **Dibromomethane** | **24.6** | 1.0 | ug/l | 25.0 | | 98 | 80-120 | 2 | 20 | |
| **1,2-Dichlorobenzene** | **25.2** | 1.0 | ug/l | 25.0 | | 101 | 80-120 | 3 | 20 | |
| **1,3-Dichlorobenzene** | **25.2** | 1.0 | ug/l | 25.0 | | 101 | 80-120 | 2 | 20 | |
| **1,4-Dichlorobenzene** | **25.4** | 1.0 | ug/l | 25.0 | | 102 | 80-120 | 4 | 20 | |
| **Dichlorodifluoromethane** | **27.0** | 4.0 | ug/l | 25.0 | | 108 | 25-140 | 3 | 20 | |
| **1,1-Dichloroethane** | **25.7** | 1.0 | ug/l | 25.0 | | 103 | 80-120 | 8 | 20 | |
| **1,2-Dichloroethane** | **23.5** | 1.0 | ug/l | 25.0 | | 94 | 80-120 | 3 | 20 | |
| **1,1-Dichloroethene** | **25.6** | 2.0 | ug/l | 25.0 | | 102 | 80-120 | 3 | 20 | |
| **cis-1,2-Dichloroethene** | **26.0** | 1.0 | ug/l | 25.0 | | 104 | 80-120 | 3 | 20 | |
| **trans-1,2-Dichloroethene** | **23.8** | 1.0 | ug/l | 25.0 | | 95 | 80-120 | 0.4 | 20 | |



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Law Engineering
4634 S. 36th Place
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Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.2
Report Number: PLA0103

Sampled: 01/09/02
Received: 01/09/02

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P2A1404 Extracted: 01/14/02** | | | | | | | | | | |
| **LCS Dup Analyzed: 01/14/02 (P2A1404-BSD1)** | | | | | | | | | | |
| **1,2-Dichloropropane** | **26.4** | 1.0 | ug/l | 25.0 | | 106 | 80-120 | 0.4 | 20 | |
| **1,3-Dichloropropane** | **26.6** | 1.0 | ug/l | 25.0 | | 106 | 80-120 | 0.8 | 20 | |
| **2,2-Dichloropropane** | **24.8** | 1.0 | ug/l | 25.0 | | 99 | 75-135 | 1 | 20 | |
| **1,1-Dichloropropene** | **27.5** | 1.0 | ug/l | 25.0 | | 110 | 80-120 | 1 | 20 | |
| **cis-1,3-Dichloropropene** | **26.0** | 1.0 | ug/l | 25.0 | | 104 | 80-120 | 2 | 20 | |
| **trans-1,3-Dichloropropene** | **23.0** | 1.0 | ug/l | 25.0 | | 92 | 80-120 | 0.9 | 20 | |
| **Ethylbenzene** | **27.7** | 2.0 | ug/l | 25.0 | | 111 | 80-120 | 2 | 20 | |
| **Hexachlorobutadiene** | **29.6** | 1.0 | ug/l | 25.0 | | 118 | 60-145 | 14 | 20 | |
| **2-Hexanone** | **18.4** | 10 | ug/l | 25.0 | | 74 | 50-170 | 8 | 20 | |
| **Iodomethane** | **25.4** | 2.0 | ug/l | 25.0 | | 102 | 40-155 | 0.8 | 20 | |
| **Isopropylbenzene** | **27.2** | 1.0 | ug/l | 25.0 | | 109 | 80-120 | 2 | 20 | |
| **p-Isopropyltoluene** | **26.2** | 1.0 | ug/l | 25.0 | | 105 | 80-120 | 4 | 20 | |
| **Methylene chloride** | **23.8** | 5.0 | ug/l | 25.0 | | 95 | 80-120 | 7 | 20 | |
| **4-Methyl-2-pentanone (MIBK)** | **22.0** | 10 | ug/l | 25.0 | | 88 | 70-140 | 3 | 20 | |
| **Methyl-tert-butyl Ether (MTBE)** | **23.8** | 5.0 | ug/l | 25.0 | | 95 | 75-135 | 3 | 20 | |
| **Naphthalene** | **32.1** | 2.0 | ug/l | 25.0 | | 128 | 70-130 | 14 | 20 | |
| **n-Propylbenzene** | **27.7** | 1.0 | ug/l | 25.0 | | 111 | 80-120 | 3 | 20 | |
| **Styrene** | **27.8** | 1.0 | ug/l | 25.0 | | 111 | 80-120 | 1 | 20 | |
| **1,1,1,2-Tetrachloroethane** | **28.0** | 1.0 | ug/l | 25.0 | | 112 | 65-150 | 3 | 20 | |
| **1,1,2,2-Tetrachloroethane** | **27.8** | 2.0 | ug/l | 25.0 | | 111 | 70-130 | 5 | 20 | |
| **Tetrachloroethene** | **27.8** | 1.0 | ug/l | 25.0 | | 111 | 80-125 | 1 | 20 | |
| **Toluene** | **26.1** | 2.0 | ug/l | 25.0 | | 104 | 80-120 | 4 | 20 | |
| **1,2,3-Trichlorobenzene** | **30.8** | 1.0 | ug/l | 25.0 | | 123 | 75-125 | 9 | 20 | |
| **1,2,4-Trichlorobenzene** | **28.9** | 1.0 | ug/l | 25.0 | | 116 | 80-120 | 12 | 20 | |
| **1,1,1-Trichloroethane** | **24.9** | 1.0 | ug/l | 25.0 | | 100 | 80-120 | 0.8 | 20 | |
| **1,1,2-Trichloroethane** | **25.3** | 1.0 | ug/l | 25.0 | | 101 | 80-120 | 0.4 | 20 | |
| **Trichloroethene** | **27.3** | 1.0 | ug/l | 25.0 | | 109 | 80-120 | 0.7 | 20 | |
| **Trichlorofluoromethane** | **26.2** | 4.0 | ug/l | 25.0 | | 105 | 75-150 | 3 | 20 | |
| **1,2,3-Trichloropropane** | **25.6** | 1.0 | ug/l | 25.0 | | 102 | 65-135 | 3 | 20 | |
| **1,2,4-Trimethylbenzene** | **28.1** | 1.0 | ug/l | 25.0 | | 112 | 80-120 | 3 | 20 | |
| **1,3,5-Trimethylbenzene** | **28.0** | 1.0 | ug/l | 25.0 | | 112 | 80-120 | 3 | 20 | |
| **Vinyl acetate** | **23.1** | 5.0 | ug/l | 25.0 | | 92 | 40-120 | 14 | 20 | |
| **Vinyl chloride** | **23.5** | 1.0 | ug/l | 25.0 | | 94 | 80-120 | 3 | 20 | |
| **Xylenes, Total** | **81.5** | 3.0 | ug/l | 75.0 | | 109 | 80-120 | 0.2 | 20 | |
| *Surrogate: Dibromofluoromethane* | *24.4* | | *ug/l* | *25.0* | | *98* | *80-120* | | | |

Debbie Fuller
Project Manager

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.2
Report Number: PLA0103

Sampled: 01/09/02
Received: 01/09/02

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P2A1404 Extracted: 01/14/02** | | | | | | | | | | |
| **LCS Dup Analyzed: 01/14/02 (P2A1404-BSD1)** | | | | | | | | | | |
| *Surrogate: Toluene-d8* | *26.4* | | *ug/l* | *25.0* | | *106* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.5* | | *ug/l* | *25.0* | | *106* | *80-120* | | | |
| **Matrix Spike Analyzed: 01/14/02 (P2A1404-MS1)** | | | | | **Source: PLA0103-01** | | | | | |
| Acetone | ND | 20 | ug/l | 25.0 | ND | 55 | 5-200 | | | |
| **Benzene** | **26.9** | 1.0 | ug/l | 25.0 | ND | 108 | 80-120 | | | |
| **Bromobenzene** | **26.7** | 1.0 | ug/l | 25.0 | ND | 107 | 80-120 | | | |
| **Bromochloromethane** | **24.0** | 1.0 | ug/l | 25.0 | ND | 96 | 60-135 | | | |
| **Bromodichloromethane** | **24.1** | 1.0 | ug/l | 25.0 | ND | 96 | 80-120 | | | |
| **Bromoform** | **24.0** | 2.0 | ug/l | 25.0 | ND | 96 | 40-140 | | | |
| **Bromomethane** | **26.9** | 4.0 | ug/l | 25.0 | ND | 108 | 25-165 | | | |
| **2-Butanone (MEK)** | **16.1** | 10 | ug/l | 25.0 | ND | 64 | 10-160 | | | |
| **n-Butylbenzene** | **26.6** | 1.0 | ug/l | 25.0 | ND | 106 | 75-135 | | | |
| **sec-Butylbenzene** | **26.2** | 1.0 | ug/l | 25.0 | ND | 105 | 80-135 | | | |
| **tert-Butylbenzene** | **25.9** | 1.0 | ug/l | 25.0 | ND | 104 | 80-125 | | | |
| **Carbon Disulfide** | **25.2** | 5.0 | ug/l | 25.0 | ND | 101 | 20-120 | | | |
| **Carbon tetrachloride** | **26.0** | 1.0 | ug/l | 25.0 | ND | 104 | 80-145 | | | |
| **Chlorobenzene** | **25.1** | 1.0 | ug/l | 25.0 | ND | 100 | 80-120 | | | |
| **Chloroethane** | **26.3** | 4.0 | ug/l | 25.0 | ND | 105 | 30-150 | | | |
| **Chloroform** | **24.7** | 1.0 | ug/l | 25.0 | ND | 99 | 80-125 | | | |
| **Chloromethane** | **23.6** | 4.0 | ug/l | 25.0 | ND | 94 | 15-140 | | | |
| **2-Chlorotoluene** | **26.1** | 1.0 | ug/l | 25.0 | ND | 104 | 80-125 | | | |
| **4-Chlorotoluene** | **25.4** | 1.0 | ug/l | 25.0 | ND | 102 | 80-125 | | | |
| **Dibromochloromethane** | **21.4** | 1.0 | ug/l | 25.0 | ND | 86 | 75-135 | | | |
| **1,2-Dibromo-3-chloropropane** | **19.7** | 1.0 | ug/l | 25.0 | ND | 79 | 25-185 | | | |
| **1,2-Dibromoethane (EDB)** | **24.6** | 1.0 | ug/l | 25.0 | ND | 98 | 45-145 | | | |
| **Dibromomethane** | **23.6** | 1.0 | ug/l | 25.0 | ND | 94 | 55-140 | | | |
| **1,2-Dichlorobenzene** | **24.2** | 1.0 | ug/l | 25.0 | ND | 97 | 80-120 | | | |
| **1,3-Dichlorobenzene** | **24.6** | 1.0 | ug/l | 25.0 | ND | 98 | 80-120 | | | |
| **1,4-Dichlorobenzene** | **25.0** | 1.0 | ug/l | 25.0 | ND | 100 | 80-120 | | | |
| **Dichlorodifluoromethane** | **26.3** | 4.0 | ug/l | 25.0 | ND | 105 | 25-145 | | | |
| **1,1-Dichloroethane** | **24.1** | 1.0 | ug/l | 25.0 | ND | 96 | 75-120 | | | |
| **1,2-Dichloroethane** | **22.9** | 1.0 | ug/l | 25.0 | ND | 92 | 60-135 | | | |
| **1,1-Dichloroethene** | **25.7** | 2.0 | ug/l | 25.0 | ND | 103 | 55-120 | | | |
| **cis-1,2-Dichloroethene** | **25.9** | 1.0 | ug/l | 25.0 | ND | 104 | 75-120 | | | |
| **trans-1,2-Dichloroethene** | **24.2** | 1.0 | ug/l | 25.0 | ND | 97 | 65-120 | | | |

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Project Manager

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Attention: Jim Clarke

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Report Number: PLA0103

Sampled: 01/09/02
Received: 01/09/02

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P2A1404 Extracted: 01/14/02** | | | | | | | | | | |
| **Matrix Spike Analyzed: 01/14/02 (P2A1404-MS1)** | | | | | **Source: PLA0103-01** | | | | | |
| **1,2-Dichloropropane** | **26.4** | 1.0 | ug/l | 25.0 | ND | 106 | 80-125 | | | |
| **1,3-Dichloropropane** | **25.2** | 1.0 | ug/l | 25.0 | ND | 101 | 55-140 | | | |
| **2,2-Dichloropropane** | **24.4** | 1.0 | ug/l | 25.0 | ND | 98 | 45-165 | | | |
| **1,1-Dichloropropene** | **27.0** | 1.0 | ug/l | 25.0 | ND | 108 | 80-120 | | | |
| **cis-1,3-Dichloropropene** | **26.0** | 1.0 | ug/l | 25.0 | ND | 104 | 80-120 | | | |
| **trans-1,3-Dichloropropene** | **22.6** | 1.0 | ug/l | 25.0 | ND | 90 | 70-120 | | | |
| **Ethylbenzene** | **26.8** | 2.0 | ug/l | 25.0 | ND | 107 | 80-120 | | | |
| **Hexachlorobutadiene** | **27.2** | 1.0 | ug/l | 25.0 | ND | 109 | 80-135 | | | |
| **2-Hexanone** | **15.7** | 10 | ug/l | 25.0 | ND | 63 | 25-185 | | | |
| **Iodomethane** | **25.3** | 2.0 | ug/l | 25.0 | ND | 101 | 30-155 | | | |
| **Isopropylbenzene** | **26.8** | 1.0 | ug/l | 25.0 | ND | 107 | 80-125 | | | |
| **p-Isopropyltoluene** | **25.7** | 1.0 | ug/l | 25.0 | ND | 103 | 80-125 | | | |
| **Methylene chloride** | **23.6** | 5.0 | ug/l | 25.0 | ND | 94 | 55-125 | | | |
| **4-Methyl-2-pentanone (MIBK)** | **19.8** | 10 | ug/l | 25.0 | ND | 79 | 10-175 | | | |
| **Methyl-tert-butyl Ether (MTBE)** | **22.2** | 5.0 | ug/l | 25.0 | ND | 89 | 55-135 | | | |
| **Naphthalene** | **24.8** | 2.0 | ug/l | 25.0 | ND | 99 | 15-160 | | | |
| **n-Propylbenzene** | **27.2** | 1.0 | ug/l | 25.0 | ND | 109 | 80-130 | | | |
| **Styrene** | **27.4** | 1.0 | ug/l | 25.0 | ND | 110 | 60-135 | | | |
| **1,1,1,2-Tetrachloroethane** | **26.6** | 1.0 | ug/l | 25.0 | ND | 106 | 80-135 | | | |
| **1,1,2,2-Tetrachloroethane** | **25.2** | 2.0 | ug/l | 25.0 | ND | 101 | 35-150 | | | |
| **Tetrachloroethene** | **28.6** | 1.0 | ug/l | 25.0 | 1.3 | 109 | 80-120 | | | |
| **Toluene** | **26.9** | 2.0 | ug/l | 25.0 | ND | 108 | 80-120 | | | |
| **1,2,3-Trichlorobenzene** | **26.6** | 1.0 | ug/l | 25.0 | ND | 106 | 45-145 | | | |
| **1,2,4-Trichlorobenzene** | **25.9** | 1.0 | ug/l | 25.0 | ND | 104 | 65-130 | | | |
| **1,1,1-Trichloroethane** | **24.8** | 1.0 | ug/l | 25.0 | ND | 99 | 80-120 | | | |
| **1,1,2-Trichloroethane** | **25.4** | 1.0 | ug/l | 25.0 | ND | 102 | 55-145 | | | |
| **Trichloroethene** | **27.2** | 1.0 | ug/l | 25.0 | ND | 109 | 80-120 | | | |
| **Trichlorofluoromethane** | **25.0** | 4.0 | ug/l | 25.0 | ND | 100 | 70-145 | | | |
| **1,2,3-Trichloropropane** | **23.6** | 1.0 | ug/l | 25.0 | ND | 94 | 20-160 | | | |
| **1,2,4-Trimethylbenzene** | **27.3** | 1.0 | ug/l | 25.0 | ND | 109 | 70-135 | | | |
| **1,3,5-Trimethylbenzene** | **27.4** | 1.0 | ug/l | 25.0 | ND | 110 | 80-125 | | | |
| **Vinyl acetate** | **20.8** | 5.0 | ug/l | 25.0 | ND | 83 | 25-130 | | | |
| **Vinyl chloride** | **24.5** | 1.0 | ug/l | 25.0 | ND | 98 | 25-135 | | | |
| **Xylenes, Total** | **82.0** | 3.0 | ug/l | 75.0 | ND | 109 | 80-120 | | | |
| *Surrogate: Dibromofluoromethane* | *24.7* | | *ug/l* | *25.0* | | *99* | *80-120* | | | |

Debbie Fuller
Project Manager

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Sampled: 01/09/02
Received: 01/09/02

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P2A1404 Extracted: 01/14/02** | | | | | | | | | | |
| **Matrix Spike Analyzed: 01/14/02 (P2A1404-MS1)** | | | | | **Source: PLA0103-01** | | | | | |
| *Surrogate: Toluene-d8* | *26.8* | | *ug/l* | *25.0* | | *107* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.0* | | *ug/l* | *25.0* | | *100* | *80-120* | | | |
| **Matrix Spike Dup Analyzed: 01/14/02 (P2A1404-MSD1)** | | | | | **Source: PLA0103-01** | | | | | |
| Acetone | ND | 20 | ug/l | 25.0 | ND | 62 | 5-200 | 12 | 20 | |
| **Benzene** | **27.0** | 1.0 | ug/l | 25.0 | ND | 108 | 80-120 | 0.4 | 80 | |
| **Bromobenzene** | **26.6** | 1.0 | ug/l | 25.0 | ND | 106 | 80-120 | 0.4 | 20 | |
| **Bromochloromethane** | **24.4** | 1.0 | ug/l | 25.0 | ND | 98 | 60-135 | 2 | 20 | |
| **Bromodichloromethane** | **24.8** | 1.0 | ug/l | 25.0 | ND | 99 | 80-120 | 3 | 20 | |
| **Bromoform** | **25.5** | 2.0 | ug/l | 25.0 | ND | 102 | 40-140 | 6 | 20 | |
| **Bromomethane** | **27.0** | 4.0 | ug/l | 25.0 | ND | 108 | 25-165 | 0.4 | 20 | |
| **2-Butanone (MEK)** | **17.8** | 10 | ug/l | 25.0 | ND | 71 | 10-160 | 10 | 20 | |
| **n-Butylbenzene** | **26.0** | 1.0 | ug/l | 25.0 | ND | 104 | 75-135 | 2 | 20 | |
| **sec-Butylbenzene** | **25.5** | 1.0 | ug/l | 25.0 | ND | 102 | 80-135 | 3 | 20 | |
| **tert-Butylbenzene** | **25.7** | 1.0 | ug/l | 25.0 | ND | 103 | 80-125 | 0.8 | 20 | |
| **Carbon Disulfide** | **24.7** | 5.0 | ug/l | 25.0 | ND | 99 | 20-120 | 2 | 20 | |
| **Carbon tetrachloride** | **26.1** | 1.0 | ug/l | 25.0 | ND | 104 | 80-145 | 0.4 | 20 | |
| **Chlorobenzene** | **25.6** | 1.0 | ug/l | 25.0 | ND | 102 | 80-120 | 2 | 20 | |
| **Chloroethane** | **26.0** | 4.0 | ug/l | 25.0 | ND | 104 | 30-150 | 1 | 20 | |
| **Chloroform** | **24.8** | 1.0 | ug/l | 25.0 | ND | 99 | 80-125 | 0.4 | 20 | |
| **Chloromethane** | **23.2** | 4.0 | ug/l | 25.0 | ND | 93 | 15-140 | 2 | 20 | |
| **2-Chlorotoluene** | **25.8** | 1.0 | ug/l | 25.0 | ND | 103 | 80-125 | 1 | 20 | |
| **4-Chlorotoluene** | **25.8** | 1.0 | ug/l | 25.0 | ND | 103 | 80-125 | 2 | 20 | |
| **Dibromochloromethane** | **22.2** | 1.0 | ug/l | 25.0 | ND | 89 | 75-135 | 4 | 20 | |
| **1,2-Dibromo-3-chloropropane** | **24.8** | 1.0 | ug/l | 25.0 | ND | 99 | 25-185 | 23 | 20 | R4 |
| **1,2-Dibromoethane (EDB)** | **26.0** | 1.0 | ug/l | 25.0 | ND | 104 | 45-145 | 6 | 20 | |
| **Dibromomethane** | **24.7** | 1.0 | ug/l | 25.0 | ND | 99 | 55-140 | 5 | 20 | |
| **1,2-Dichlorobenzene** | **24.3** | 1.0 | ug/l | 25.0 | ND | 97 | 80-120 | 0.4 | 20 | |
| **1,3-Dichlorobenzene** | **24.3** | 1.0 | ug/l | 25.0 | ND | 97 | 80-120 | 1 | 20 | |
| **1,4-Dichlorobenzene** | **24.7** | 1.0 | ug/l | 25.0 | ND | 99 | 80-120 | 1 | 20 | |
| **Dichlorodifluoromethane** | **27.3** | 4.0 | ug/l | 25.0 | ND | 109 | 25-145 | 4 | 20 | |
| **1,1-Dichloroethane** | **24.0** | 1.0 | ug/l | 25.0 | ND | 96 | 75-120 | 0.4 | 20 | |
| **1,2-Dichloroethane** | **23.5** | 1.0 | ug/l | 25.0 | ND | 94 | 60-135 | 3 | 20 | |
| **1,1-Dichloroethene** | **25.7** | 2.0 | ug/l | 25.0 | ND | 103 | 55-120 | 0 | 20 | |
| **cis-1,2-Dichloroethene** | **26.4** | 1.0 | ug/l | 25.0 | ND | 106 | 75-120 | 2 | 20 | |
| **trans-1,2-Dichloroethene** | **24.2** | 1.0 | ug/l | 25.0 | ND | 97 | 65-120 | 0 | 20 | |



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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.2
Report Number: PLA0103

Sampled: 01/09/02
Received: 01/09/02

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P2A1404 Extracted: 01/14/02** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 01/14/02 (P2A1404-MSD1)** | | | | | **Source: PLA0103-01** | | | | | |
| **1,2-Dichloropropane** | **26.8** | 1.0 | ug/l | 25.0 | ND | 107 | 80-125 | 2 | 20 | |
| **1,3-Dichloropropane** | **26.8** | 1.0 | ug/l | 25.0 | ND | 107 | 55-140 | 6 | 20 | |
| **2,2-Dichloropropane** | **24.8** | 1.0 | ug/l | 25.0 | ND | 99 | 45-165 | 2 | 20 | |
| **1,1-Dichloropropene** | **27.4** | 1.0 | ug/l | 25.0 | ND | 110 | 80-120 | 1 | 20 | |
| **cis-1,3-Dichloropropene** | **26.6** | 1.0 | ug/l | 25.0 | ND | 106 | 80-120 | 2 | 20 | |
| **trans-1,3-Dichloropropene** | **23.2** | 1.0 | ug/l | 25.0 | ND | 93 | 70-120 | 3 | 20 | |
| **Ethylbenzene** | **27.4** | 2.0 | ug/l | 25.0 | ND | 110 | 80-120 | 2 | 20 | |
| **Hexachlorobutadiene** | **24.8** | 1.0 | ug/l | 25.0 | ND | 99 | 80-135 | 9 | 20 | |
| **2-Hexanone** | **17.2** | 10 | ug/l | 25.0 | ND | 69 | 25-185 | 9 | 20 | |
| **Iodomethane** | **25.4** | 2.0 | ug/l | 25.0 | ND | 102 | 30-155 | 0.4 | 20 | |
| **Isopropylbenzene** | **26.4** | 1.0 | ug/l | 25.0 | ND | 106 | 80-125 | 2 | 20 | |
| **p-Isopropyltoluene** | **25.5** | 1.0 | ug/l | 25.0 | ND | 102 | 80-125 | 0.8 | 20 | |
| **Methylene chloride** | **23.4** | 5.0 | ug/l | 25.0 | ND | 94 | 55-125 | 0.9 | 20 | |
| **4-Methyl-2-pentanone (MIBK)** | **22.1** | 10 | ug/l | 25.0 | ND | 88 | 10-175 | 11 | 20 | |
| **Methyl-tert-butyl Ether (MTBE)** | **23.6** | 5.0 | ug/l | 25.0 | ND | 94 | 55-135 | 6 | 20 | |
| **Naphthalene** | **30.4** | 2.0 | ug/l | 25.0 | ND | 122 | 15-160 | 20 | 20 | |
| **n-Propylbenzene** | **26.9** | 1.0 | ug/l | 25.0 | ND | 108 | 80-130 | 1 | 20 | |
| **Styrene** | **27.8** | 1.0 | ug/l | 25.0 | ND | 111 | 60-135 | 1 | 20 | |
| **1,1,1,2-Tetrachloroethane** | **27.4** | 1.0 | ug/l | 25.0 | ND | 110 | 80-135 | 3 | 20 | |
| **1,1,2,2-Tetrachloroethane** | **27.4** | 2.0 | ug/l | 25.0 | ND | 110 | 35-150 | 8 | 20 | |
| **Tetrachloroethene** | **29.0** | 1.0 | ug/l | 25.0 | 1.3 | 111 | 80-120 | 1 | 20 | |
| **Toluene** | **27.4** | 2.0 | ug/l | 25.0 | ND | 110 | 80-120 | 2 | 20 | |
| **1,2,3-Trichlorobenzene** | **29.1** | 1.0 | ug/l | 25.0 | ND | 116 | 45-145 | 9 | 20 | |
| **1,2,4-Trichlorobenzene** | **26.4** | 1.0 | ug/l | 25.0 | ND | 106 | 65-130 | 2 | 20 | |
| **1,1,1-Trichloroethane** | **25.1** | 1.0 | ug/l | 25.0 | ND | 100 | 80-120 | 1 | 20 | |
| **1,1,2-Trichloroethane** | **26.1** | 1.0 | ug/l | 25.0 | ND | 104 | 55-145 | 3 | 20 | |
| **Trichloroethene** | **27.6** | 1.0 | ug/l | 25.0 | ND | 110 | 80-120 | 1 | 20 | |
| **Trichlorofluoromethane** | **24.9** | 4.0 | ug/l | 25.0 | ND | 100 | 70-145 | 0.4 | 20 | |
| **1,2,3-Trichloropropane** | **25.4** | 1.0 | ug/l | 25.0 | ND | 102 | 20-160 | 7 | 20 | |
| **1,2,4-Trimethylbenzene** | **26.9** | 1.0 | ug/l | 25.0 | ND | 108 | 70-135 | 1 | 20 | |
| **1,3,5-Trimethylbenzene** | **27.0** | 1.0 | ug/l | 25.0 | ND | 108 | 80-125 | 1 | 20 | |
| **Vinyl acetate** | **22.3** | 5.0 | ug/l | 25.0 | ND | 89 | 25-130 | 7 | 20 | |
| **Vinyl chloride** | **23.9** | 1.0 | ug/l | 25.0 | ND | 96 | 25-135 | 2 | 20 | |
| **Xylenes, Total** | **82.8** | 3.0 | ug/l | 75.0 | ND | 110 | 80-120 | 1 | 20 | |
| *Surrogate: Dibromofluoromethane* | *24.8* | | *ug/l* | *25.0* | | *99* | *80-120* | | | |

Debbie Fuller
Project Manager

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.2
Report Number: PLA0103

Sampled: 01/09/02
Received: 01/09/02

METHOD BLANK/QC DATA

# VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: P2A1404 Extracted: 01/14/02** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 01/14/02 (P2A1404-MSD1)** | | | | | **Source: PLA0103-01** | | | | | |
| *Surrogate: Toluene-d8* | *27.0* | | *ug/l* | *25.0* | | *108* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.8* | | *ug/l* | *25.0* | | *103* | *80-120* | | | |

Debbie Fuller
Project Manager

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Law Engineering
4634 S. 36th Place
Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.2

Report Number: PLA0103

Sampled: 01/09/02
Received: 01/09/02

METHOD BLANK/QC DATA

## DATA QUALIFIERS AND DEFINITIONS

**R4** MS/MSD RPD exceeded the method control limit. Recovery met acceptance criteria.

**ND** Analyte NOT DETECTED at or above the reporting limit

**NR** Not reported.

**RPD** Relative Percent Difference

Debbie Fuller
Project Manager

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# CHAIN OF CUSTODY FORM

Quote #: _____ Page 1 of 1

| Client Name/Address: | Project/PO Number: |
|---|---|
| LAW Engineering 4634 S 36th Place Phoenix Arizona | 2011-0-0150 PZ + M |
| **Project Manager:** Tim Clark | **Phone Number:** (602) 437-0250 |
| **Sampler:** Chuck Cook | **Fax Number:** (602) 437-3075 |

| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date/Time | Preservatives | Analysis Required: 8260-10m | Special Instructions |
|---|---|---|---|---|---|---|---|
| MW-5 S-130 | $H_2O$ | VOA | 3 | 1-9-02 945 | HCL | X PLA 0103-01 | |
| MW-5S-170 | | | | 1-9-02 950 | | X 2 | |
| MW-4S-135 | | | | 1-9-02 1006 | | X 3 | |
| MW-4S-175 | | | | 1-9-02 1008 | | X 4 | |
| MW-2D-180 | | | | 1-9-02 1031 | | X 5 | |
| MW-2D-210 | | | | 1-9-02 1034 | | X 6 | |
| MW-2D-240 | | | | 1-9-02 1037 | | X 7 | |
| MW-3S-225 | | | | 1-9-02 1047 | | X 8 | |
| MW-1S-130 | | | | 1-9-02 1150 | | X 9 | |
| MW-1S-170 | ↓ | ↓ | ↓ | 1-9-02 1155 | ↓ | X ↓ 10 | |
| TB | | VOA | 2 | | | ↓ 11 | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| Relinquished By: | Date /Time: | Received by: | Date /Time: |
|---|---|---|---|
| | 1/10 1500 | | |
| Relinquished By: | Date /Time: | Received by: | Date /Time: |
| | | | 01/09/02 E-S |
| Relinquished By: | Date /Time: 01/09/02 | Received in Lab by: Emily Lagan | Date /Time: 01/09/02 1505 |

Turnaround Time: (Check)
same day _____ 72 hours _____
24 hours _____ 5 days _____
48 hours _____ normal ✓

Sample Integrity: (Check)
intact ✓ on ice ✓

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

Temp 4°C

COC-GB

Del Mar Analytical

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# CORRECTIVE ACTION REPORT

| | | | |
|---|---|---|---|
| Department: | GC/MS | Method: | 8260B |
| Date: | 07/15/2002 | Matrix: | Water |
| Batch: | P2G1504 | | |
| Samples: | PLG0073-05RE1, PLG0073-09RE1, PLG0073-13RE1, PLG0108-05, PLG0144-03, PLG0144-08, PLG0144-11 – PLG0144-14, PLG0170-03, PLG0170-08, PLG0170-13 & PLG0170-16 – PLG0170-18 | | |

Identification and Definition of Problem:

There is no Matrix Spike (MS) or Matrix Spike Duplicate (MSD) data available for Acetone for this batch.

Determination of the Cause of the Problem:

The sample that was used for the source sample for the MS/MSD contained high concentrations of Acetone which prevented the quantitation software from quantitating the Acetone concentrations in the source sample, MS and MSD.

Corrective Action:

The Laboratory Control Sample (LCS) and the Laboratory Control Sample Duplicate (LCSD) associated with the batch were within acceptance limits for Acetone. Also, the Relative Percent Difference between the LCS and LCSD was within acceptance limits. The data should not be significantly impacted.

Elizabeth C. Wueschner: Elizabeth C. Wueschner Date: 7/17/2002
Quality Assurance Manager