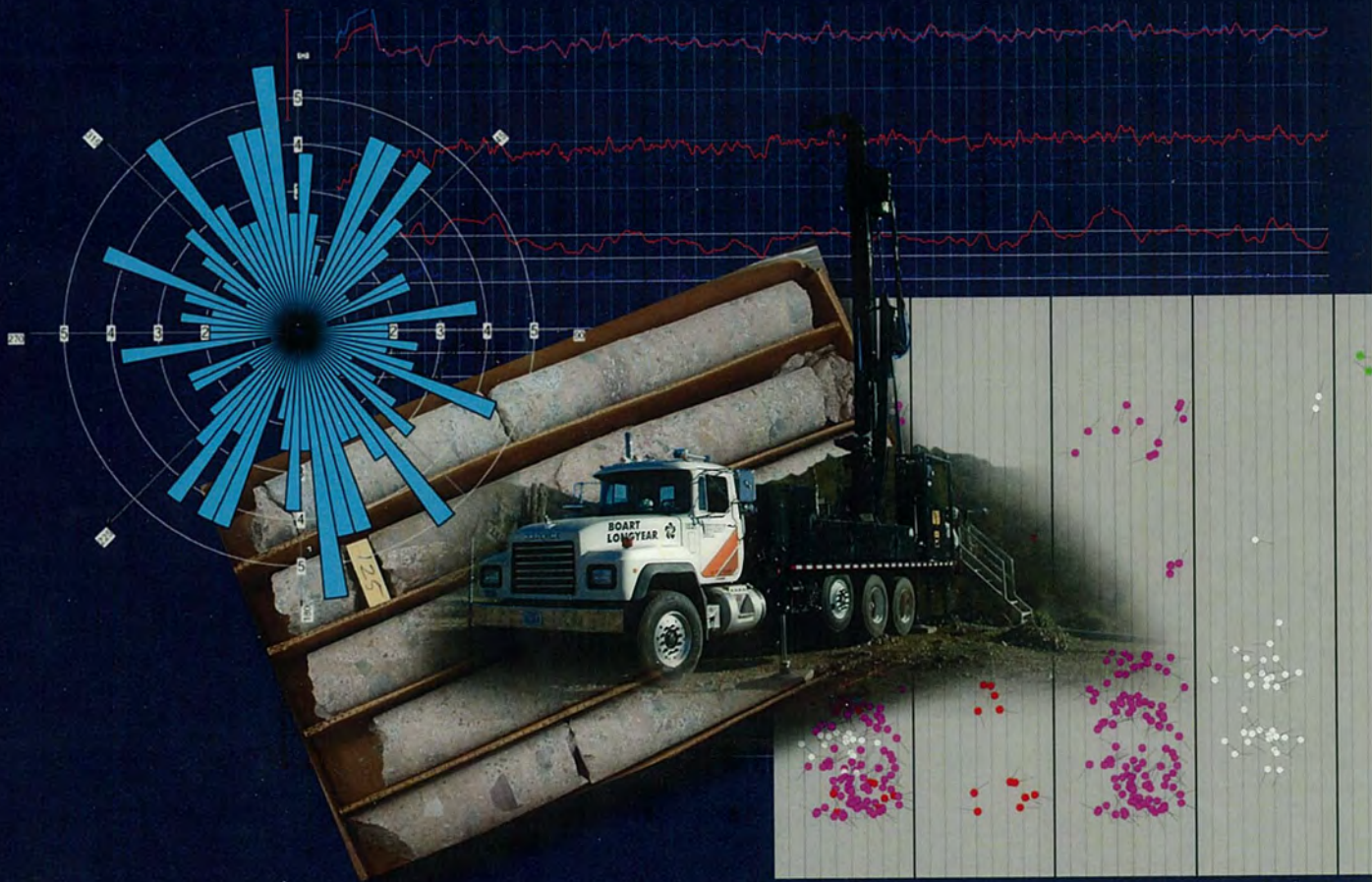


2011 Annual Monitoring Report

Universal Propulsion Co. Inc.



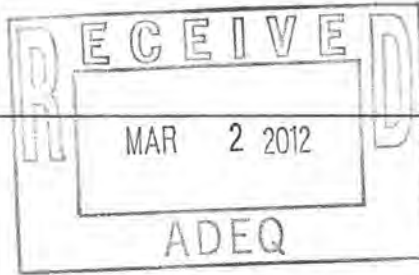
March 2012





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ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

MAR - 5 2012

Waste Programs Div.
Permits Section

February 27, 2012

Mr. Richard Olm, P.E.
Arizona Department of Environmental Quality
Hazardous Waste Permits Unit
1110 West Washington Street
Phoenix, Arizona 85007



EXPIRES 3/31/2013

Re: 2011 Annual Monitoring Report
Universal Propulsion Company, Inc.
Phoenix, Arizona 85085

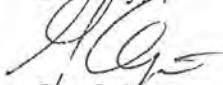
Dear Mr. Olm:

Please find attached the 2011 Annual Monitoring Report for the Universal Propulsion Company, Inc. (UPCO).

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Please contact Ms. Karen Mittleider at (602) 243-2338 if you have any questions or need additional information.

Sincerely,



Guy Ogjino
Site Leader

cc: Robin Thomas, ADEQ
Anthony Leverock, ADEQ
David Haag, ADEQ
Bruce Campbell, ASLD

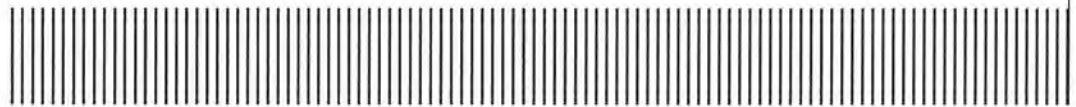
Philip McNeely, City of Phoenix
Donn Stoltzfus, City of Phoenix
Karen Mittleider, Goodrich Interiors
David Gordon, ARCADIS

Universal Propulsion Company, Inc.

25401 North Central Avenue • Phoenix, Arizona 85085

2011 Annual Monitoring Report

February 2012



Report Prepared By:

ARCADIS U.S., Inc.

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Contents

EXPIRES 3/31/2013

1. Introduction	1-1
1.1. Site Description	1-2
2. Monitoring Network	2-1
2.1. UPCO Groundwater Monitor Wells	2-1
2.2. Private Domestic Wells.....	2-2
2.3. Soil Vapor Monitor Well.....	2-2
3. Monitoring Activities	3-1
3.1. Previous Groundwater Investigation Activities	3-1
3.1.1. 2004 - 2010 Activities	3-1
3.1.1.1. Monitor Wells	3-1
3.1.1.2. Facility Monitoring Locations.....	3-2
3.1.1.3. Private Domestic Wells	3-2
3.1.1.4. Soil Vapor Monitor Well	3-2
3.2. 2011 Groundwater Monitoring.....	3-3
3.2.1. Administrative Activities	3-3
3.2.2. Water Level Measurements	3-4
3.2.3. UPCO Facility Wells Sampling	3-4
3.2.4. Private Wells Sampling.....	3-5
3.2.5. Soil Vapor Monitor Well Sampling	3-5
3.3. Well Conversion and Installation Activities.....	3-5
3.4. Survey.....	3-5
3.5. Investigative Derived Waste.....	3-6
4. Data Evaluation	4-1
4.1. Groundwater Level Measurements	4-1
4.2. Groundwater Quality Data	4-1
4.2.1. Perchlorate.....	4-2
4.2.2. VOCs	4-3
4.2.3. Metals	4-3
4.3. Soil Vapor Quality Data	4-3
5. Quality Assurance and Data Verification	5-1
6. Future Monitoring Activities	6-1
7. References	7-1

Tables

1. UPCO Monitor Well Information
2. Private Well Information
3. UPCO Monitor Wells Sampled and Analyses Performed in 2011
4. 2011 Water Levels
5. Private Wells Sampled and Analyses Performed in 2011
6. 2011 UPCO Monitor Well Perchlorate Results
7. 2011 Private Well Perchlorate Results
8. Soil Vapor Monitor Well (SVMW-1) Results
9. Proposed 2012 UPCO Sampling and Analysis Schedule

Figures

1. Site Location Map
2. Site Facilities Map
3. UPCO Monitor Wells
4. Private Wells
5. Groundwater Elevations February 23, 2011
6. Groundwater Elevations March 22, 2011
7. Groundwater Elevations April 25-26, 2011
8. Groundwater Elevations May 27, 2011
9. Groundwater Elevations June 30, 2011
10. Groundwater Elevations July 25, 2011
11. Groundwater Elevations September 2, 2011
12. Groundwater Elevations September 27, 2011
13. Groundwater Elevations October 24, 2011
14. Groundwater Elevations November 28, 2011
15. Groundwater Elevations December 27, 2011
16. First Quarter 2011 Perchlorate Concentration Map
17. Second Quarter 2011 Perchlorate Concentration Map
18. Third Quarter 2011 Perchlorate Concentration Map
19. Fourth Quarter 2011 Perchlorate Concentration Map



Appendices

- A. Well Construction Diagram
- B. IDW Documentation
- C. Historic Water Level Data
- D. Monitor Well Hydrographs
- E. 2011 Monitor Well Water Quality Data
- F. Historic Private Well Water Quality Data
- G. Historic Perchlorate Concentration Graph – Monitor Wells
- H. Summary of 2011 Field Data
- I. 2011 Data Verification Summaries
- J. Laboratory Reports (CD)



1. Introduction

This Annual Monitoring Report (report) summarizes the monitoring activities conducted at the Universal Propulsion Company, Inc. (UPCO) facility (site) in Phoenix, Arizona during 2011. This report continues to be part of an overall site characterization for soil and groundwater pursuant to Part I in the Arizona Hazardous Waste Management Act (AZ HWMA).

This report is supported by the Quality Assurance Project Plan (QAPP) (H+A, 2004b), Groundwater Monitoring Plan (Malcolm Pirnie, 2004), Updated Groundwater Monitoring Work Plan (GWMP) (Malcolm Pirnie, 2008a; ARCADIS, 2011d), and the QAPP Addendum (Malcolm Pirnie, 2009c; ARCADIS, 2011c). The October 2011 revisions to the GWMP and QAPP Addendum incorporate the new monitoring wells (MW-16, MW-17 and MW-19) installed at the former UPCO facility. This report consists of the following:

- facility description;
- summary of previous groundwater investigations;
- summary of monitoring activities for the year;
- lists of wells that were sampled, including sample dates and analyses performed;
- data evaluation and verification;
- table of water level measurements including, well identification, date and time of measurement, depth to water below measuring point and groundwater elevation above mean sea level;
- table of analytical data;
- hydrographs for the UPCO facility groundwater monitor wells;
- maps of groundwater elevation data;
- trend graphs of perchlorate concentrations for the UPCO facility groundwater monitor wells;
- investigation derived waste (IDW) documentation;
- copies of laboratory reports and data verification summaries; and
- recommendations for updates to the monitoring plan.

1.1. Site Description

The UPCO operations were transferred to a facility in Fairfield, California in the fourth quarter of 2009. Demolition of the UPCO facility occurred throughout 2009 and was completed in January 2010. The site is located approximately two miles north of the Deer Valley Airport, Phoenix, Arizona (Figure 1). Specifically, the facility was at the intersection of Central Avenue and Happy Valley Road at an address of 25401 North Central Avenue. The site is within the southeast quarter of Section 5, Township 4 North, Range 3 East of the Gila and Salt River Baseline and Meridian. The UPCO operations were located on approximately 160 acres of land leased from the State of Arizona and consisted of numerous manufacturing and administrative buildings (Figure 2). A chain link fence surrounds the previous manufacturing areas and restricts general access. Locks secure each gate and well vault to limit access and deter vandalism.

2. Monitoring Network

The following types of wells were utilized for the monitoring program in 2011:

- UPCO monitor wells and a production well;
- private domestic wells; and
- a nested soil vapor monitor well.

The primary objective of groundwater monitoring is to provide data to assess groundwater quality at and near the facility for target chemical constituents. Groundwater elevation data are collected to evaluate local groundwater conditions. The study area for monitoring during 2011 included the site, some private residences along the northern property boundary, and areas approximately ½ mile to the west, south, and east of the property boundary.

The primary objective of the soil vapor monitoring is to monitor the vertical distribution of contaminants of potential concern (COPCs) in soil gas beneath the suspected volatile organic compound (VOC) source area in the former B-Complex area (Figure 2).

2.1. UPCO Groundwater Monitor Wells

The locations of the UPCO monitor wells are shown on Figure 3. Table 1 includes a summary of the location and well construction details for UPCO monitor wells and production well PW-1. Table 2 summarizes the private wells that are included in the monitoring program. The locations of the private wells are shown in Figure 4. Additional information regarding drilling and well construction details for the UPCO groundwater monitor wells is provided in the following reports:

- Phase I Monitoring Well Construction Summary Report (H+A, 2004c)
- Phase II Monitoring Well Installation Report (Malcolm Pirnie, 2005)
- Phase III Monitoring Well Installation Report (Malcolm Pirnie, 2006)
- Final Remedial Investigation Report (ARCADIS, 2011a)
- Final 2009 Annual Monitoring Report (Malcolm Pirnie, 2010)
- Final 2010 Annual Monitoring Report (ARCADIS, 2011b)

2.2. Private Domestic Wells

Beginning in 2004, UPCO collected groundwater samples from private wells located along Yearling Road in accordance with Consent Order (Order) No. P-136-04. The Order specified that UPCO collect semi-annual groundwater samples from private wells located along Yearling Road north of the site for perchlorate analysis for a period of two years. UPCO collected groundwater samples from various private wells, according to owner requests and authorization, beginning in 2004 and ending during the second quarter of 2006. The Order has been terminated; however, UPCO voluntarily agreed to extend the private well sampling program with the current agreement running through the completion of the Remedial Investigation (RI) activities. The AZ HWMA Permit Condition III.C.1 requires semi-annual private well sampling. The locations of these private wells are shown on Figure 4.

2.3. Soil Vapor Monitor Well

Beginning in 2008, UPCO began collecting soil gas samples from a nested soil vapor monitor well (SVMW-1) in the former B-Complex area. The nested soil vapor monitor well is used to monitor for potential vertical migration of VOCs in soil vapor. The location of SVMW-1 is shown on Figure 3. Table 1 includes a summary of screened intervals for SVMW-1. Additional information regarding drilling and well construction details for the soil vapor monitor well is provided in the Final Remedial Investigation Report (ARCADIS, 2011a).

3. Monitoring Activities

3.1. Previous Groundwater Investigation Activities

A summary of previous groundwater investigation activities is presented below. Additional information regarding previous activities is provided in the following reports:

- Final 2010 Annual Monitoring Report (ARCADIS, 2011b)
- Final Remedial Investigation Report (ARCADIS, 2011a)

3.1.1. 2004 - 2010 Activities

3.1.1.1. Monitor Wells

Monitor wells MW-1 through MW-12 were installed during 2004 and 2005. From 2004 through 2010, perchlorate has been detected in MW-1, MW-2, MW-5, and MW-6 at concentrations ranging from 47 micrograms per liter ($\mu\text{g/L}$) to 130 $\mu\text{g/L}$, 39 $\mu\text{g/L}$ to 96 $\mu\text{g/L}$, 6.4 $\mu\text{g/L}$ to 32 $\mu\text{g/L}$, and 14 $\mu\text{g/L}$ to 20 $\mu\text{g/L}$, respectively. Perchlorate was detected in samples collected from MW-11 at concentrations ranging from less than the laboratory reporting limit (2 $\mu\text{g/L}$) to 2.6 $\mu\text{g/L}$. Perchlorate was not detected above 2 $\mu\text{g/L}$ in samples collected from MW-3, MW-4, MW-7, MW-8, MW-9, MW-10, and MW-12.

Monitor wells MW-13, MW-14, and MW-15 were installed in 2008. From 2008 through 2010, perchlorate has been detected in samples collected from MW-13 at concentrations ranging from 12 $\mu\text{g/L}$ to 330 $\mu\text{g/L}$ and from MW-14 at concentrations ranging from less than 2 $\mu\text{g/L}$ to 2.6 $\mu\text{g/L}$. Perchlorate has not been detected above the laboratory reporting limit (2 $\mu\text{g/L}$) in samples collected from MW-15.

Monitor well MW-18 was installed in 2009. During 2009 and 2010, perchlorate was not detected above the laboratory reporting limit (2 $\mu\text{g/L}$).

Depth to groundwater measurements have been collected monthly from the UPCO monitor wells since 2004. Pressure transducers were installed in various UPCO monitor well and private domestic wells periodically since 2007 in an effort to expand the evaluation of the hydrogeological conditions at the site. Additional information regarding the collection of pressure transducer data is provided in the Final 2010 Annual

Monitoring Report (ARCADIS, 2011b) and the Draft Interim Remedial Investigation Report (Malcolm Pirnie, 2009a).

3.1.1.2. Facility Monitoring Locations

The UPCO facility production well (PW-1) and point of entry (POE) to the potable water system were sampled periodically as part of county requirements for water service providers from 2004 through 2009. PW-1 was not sampled in 2010 due to removal of the pump's power source that occurred during site demolition activities. Since 2004, perchlorate has been detected in PW-1 at concentrations ranging from less than 2 µg/L to 4.8 µg/L. From 2004 through the first quarter of 2009, perchlorate was detected at the POE at concentrations ranging from less than 2 µg/L to 3.0 µg/L. The location of the POE prior to site demolition, at the sink in the building A-1 lunchroom, no longer provided value-added data for monitoring groundwater quality at the UPCO site. Sampling at the POE for groundwater monitoring purposes was not performed beyond the first quarter 2009.

3.1.1.3. Private Domestic Wells

UPCO and the Arizona Department of Environmental Quality (ADEQ) sampled private domestic wells during the fourth quarter of 2004 and semiannually in 2005 through 2009. Groundwater samples were only collected in the second quarter of 2010 since a site access agreement between UPCO and the State Land Department had not been granted for the fourth quarter to sample the onsite wells. ADEQ also sampled wells at the Arizona Department of Transportation (ADOT) facility located southwest of the UPCO facility in 2004. Perchlorate was not detected above the laboratory reporting limit (2 µg/L) in samples collected from the ADOT facility. Since 2004, perchlorate has been detected in samples collected from the private domestic wells in concentrations ranging from 0.58 µg/L to 3.1 µg/L.

3.1.1.4. Soil Vapor Monitor Well

During 2008, a nested soil vapor monitor well (SVMW-1) was installed in B-Complex. SVMW-1 consists of four nested wells, including one well with a 0.5-inch diameter schedule 80 PVC casing and 0.04-inch slot screen and three wells with 2-inch diameter schedule 80 PVC casing with 0.02-inch slot screens. The screen interval for each sampling port was determined based on the analytical results for VOCs collected from boring BC-SG41 during the Supplemental Soil and Soil Gas Investigation. The soil gas monitoring screens, each ten feet in length, were installed at 190-200 feet below ground

surface (bgs) (the 0.5-inch diameter well), 140-150 feet bgs, 90-100 feet bgs, and 30-40 feet bgs.

Since 2008, 1,1-dichloroethene (1,1-DCE) has been detected at screening depths 30-40 feet bgs, 90-100 feet bgs, 140-150 feet bgs, and 190-200 feet bgs at concentrations ranging from 650 parts per billion by volume (ppbv) to 3,200 ppbv, 450 ppbv to 23,000 ppbv, 240 ppbv to 3,500 ppbv, and 180 ppbv to 360 ppbv, respectively. Acetone has been detected at screening depths 30-40 feet bgs, 90-100 feet bgs, 140-150 feet bgs, and 190-200 feet bgs at concentrations ranging from 610 ppbv to 1,100 ppbv, 240 ppbv to 1,200 ppbv, 180 ppbv to 1,300 ppbv, and 150 ppbv to 3,500 ppbv, respectively. Lower concentrations of several other VOCs such as 1,1-dichloroethane, 2-butanone (MEK), carbon disulfide, chloromethane, heptane, hexane, propene, tetrachloroethene, toluene, and trichloroethene were also detected.

3.2. 2011 Groundwater Monitoring

3.2.1. Administrative Activities

The following administrative activities related to the monitoring program occurred in 2011:

- A Special Land Use Permit (SLUP) was granted by the Arizona State Land Department on January 28, 2011 to provide site access for monitoring purposes.
- Consent Order P-136-04 for the UPCO site has been terminated and the AZ HWMA Permit was issued for the former UPCO facility under EPA Facility ID number AZD 980 814 479 and dated June 30, 2011. All corrective action activities moving forward will be conducted under the AZ HWMA Permit for the former UPCO Facility.
- The Final Remedial Investigation Report (ARCADIS, 2011a) was submitted on July 1, 2011 to ADEQ. ADEQ responded with comments in a letter dated August 9, 2011. In response to ADEQ's comments, UPCO submitted a Class 1 Permit Modification request on August 12, 2011 to incorporate the Final Remedial Investigation Report into the Permit and also submitted replacement pages for the report on August 23, 2011.
- ADEQ approved the Final Remedial Investigation Report and the Class 1 Permit Modification on August 29, 2011.

- An Updated Groundwater Monitoring Plan and QAPP Addendum were submitted to ADEQ as Class 1 Permit Modification requests on October 13, 2011.
- ADEQ approved the Updated Groundwater Monitoring Plan, the QAPP Addendum, and the Class 1 Permit Modification requests on December 21, 2011.

3.2.2. Water Level Measurements

In accordance with the Updated GWMP (Malcolm Pirnie, 2008a; ARCADIS, 2011d), groundwater elevation measurements were collected on a monthly basis. Depth to water was measured to the nearest 0.01 foot with respect to a surveyed measurement point at the top of each well using a decontaminated electronic sounding device.

Water level measurements were not collected from monitor wells in January 2011, pending the execution of the SLUP by the State Land Department. Manual water level measurement data were collected monthly beginning in February 2011.

3.2.3. UPCO Facility Wells Sampling

Sampling activities occurred during each of the four quarters in 2011. Project specific sampling procedures outlined in the Groundwater Monitoring Plan (Malcolm Pirnie, 2004), the Updated GWMP (Malcolm Pirnie, 2008a; ARCADIS, 2011d), and industry standard methods were used. Groundwater samples were collected from UPCO groundwater monitor wells MW-1 through MW-19 and PW-1, as outlined in the Final 2010 Annual Monitoring Report (ARCADIS, 2011b) in 2011.

A dedicated submersible pump was installed at MW-18 on March 25, 2011 and a groundwater sample was collected on March 30, 2011. The power supply to the former production well (PW-1) was removed during 2010 site demolition activities. On March 23, 2011, a temporary generator was connected to PW-1 so that the well could provide water to support well installation activities at MW-16, MW-17 and MW-19. A groundwater sample was collected from PW-1 on March 30, 2011. The conversion of production well PW-1 to a monitor well was completed on September 2, 2011, and the monitor well was sampled on September 6, 2011. The installation of monitor wells MW-16, MW-17 and MW-19 was completed in the second quarter of 2011. These monitor wells were sampled for baseline analyses, including perchlorate, metals, VOCs, and general water chemistry. A list of UPCO monitor wells sampled in 2011, including dates and analysis performed, is provided in Table 3.

3.2.4. Private Wells Sampling

Private wells incorporated into the groundwater monitoring program were sampled using existing dedicated submersible pumps. Groundwater samples were collected in the first and third quarters of 2011. A list of private wells that were sampled in 2011, including dates and analyses performed, is included in Table 5.

There were a few private wells that have historically been monitored that were not sampled in 2011 after multiple attempts to contact the property owners for well access. One private well, 106 West Yearling, was not sampled in the first quarter of 2011. Two private wells, 18 East Yearling and 25903 North Second Street, were not sampled in the third quarter of 2011.

3.2.5. Soil Vapor Monitor Well Sampling

Soil vapor monitor well, SVMW-1, was sampled during each quarter of 2011 from each nested interval. A vacuum pump was used to purge approximately three well volumes at a flow rate of less than one cubic feet per minute. A one-liter Summa canister fitted with a dedicated one-liter per minute flow restrictor was used at each sample interval for time-integrated sample collection.

3.3. Well Conversion and Installation Activities

The installation of monitor wells MW-16, MW-17 and MW-19 was completed in the second quarter of 2011. The as-built well construction diagrams are provided in Appendix A.

The former production well, PW-1, was converted from a production well to a monitor well by replacing the dedicated pump with a smaller pump (Grundfos SQ15-290) on September 2, 2011.

3.4. Survey

A state registered land surveyor established horizontal and vertical control of monitor wells MW-16, MW-17, and MW-19 (as discussed in Section 3.3) on April 15, 2011. The vertical coordinates of the sounding port, top of casing, and ground surface were surveyed in the Arizona State Plane Coordinate System (NGVD 29) with units of international feet above mean sea level. The measuring point elevation of the PVC sounding tube port contained in the well seal was measured to the nearest 0.01 foot. The measuring point was marked on the north side of the port. The horizontal coordinates of the well were surveyed in the Arizona State Plane Coordinate System, Central Zone,

North American Datum 1983 (NAD 83) with units of international feet. Survey information is provided in Table 1.

3.5. Investigative Derived Waste

Groundwater monitoring activities in 2011 generated purge water and soil cuttings that were managed as investigative derived waste (IDW). The purge water was temporarily stored on-site in a poly tank prior to being transported offsite by MP Environmental for disposal at Liquid Environmental Solutions (LES) and Stericycle. Purge water with perchlorate concentrations less than 100 ug/L were transported to LES, and purge water with perchlorate concentrations greater than 100 ug/L (i.e., purge water from MW-19) were transported to Stericycle for solidification and transport/disposal at a Subtitle C Landfill in Beatty, NV. In 2011, 23,000 gallons of non-hazardous purge water was generated at the site. The soil cuttings were transported offsite by MP Environmental for disposal at Waste Management. Sixty-five tons of non-hazardous soil cuttings were generated at the site. IDW documentation for 2011 is provided in Appendix B.

4. Data Evaluation

4.1. Groundwater Level Measurements

Groundwater elevations have been monitored at and near the UPCO facility to evaluate potential gradients. These measurements have been collected on a regular basis at UPCO site-wide monitor wells and private wells located near the north property boundary at 218 East Yearling Road and 520 East Yearling Road using electronic water level equipment and pressure transducers. Private well locations are shown in Figure 4.

Historical depth to groundwater measurements and groundwater elevations for site and private wells are summarized in Appendix C. Historical hydrographs are presented in Appendix D. Groundwater elevation maps for are provided on Figures 5 through 15.

The highest water elevations were observed in late 2004 to early 2005, and the lowest elevations for a majority of the wells were observed in 2010 and 2011. A potential geologic structure (Malcolm Pirnie, 2009a) is located east of the area monitored by MW-6, MW-7, MW-10, and MW-18 and generally on the west side of the UPCO facility. Groundwater elevations on the west side of the structure are approximately 30 feet higher than on the east side of the structure. The monitor wells located east of the potential geologic structure showed a nearly static/slightly declining water level trend. The difference between the minimum and maximum groundwater elevations measured in each of these wells in 2011 (i.e., the groundwater elevation decline per well) varied between 0.25 feet in monitor well MW-9 and 1.75 feet in monitor well MW-16.

West of the potential geologic structure, groundwater elevations were also declining. The difference between the minimum and maximum groundwater elevations for monitor wells MW-6, MW-7, MW-10, and MW-18 ranged from -0.67 feet to 2.08 feet. The rising trend previously noted in the Final 2010 Annual Monitoring Report at MW-6 during 2010 appears to have been temporary.

4.2. Groundwater Quality Data

The following sections discuss the results of groundwater quality monitoring performed in 2011. Tables presenting water quality analytical data for the UPCO monitor wells are summarized in Appendix E. The perchlorate results for the UPCO monitor wells are

provided in Table 6. The perchlorate results for the private wells are provided in Table 7. A table presenting historic water quality analytical data for the private wells is provided in Appendix F. Perchlorate concentration trend plots for each UPCO monitor well are presented in Appendix G. Field parameter data collected during the 2011 sampling events is provided in Appendix H. Figures 16 through 19 present perchlorate concentration maps for the first, second, third, and fourth quarters of 2011, respectively.

4.2.1. Perchlorate

The AZ HWMA Permit Condition Part IV.C.9 specifies a groundwater cleanup goal of 14 µg/L for perchlorate. The laboratory reporting limit using EPA Method 314.0 is 2.0 µg/L. During the 2011 monitoring period, perchlorate was detected in monitor wells MW-1, MW-2, MW-5, MW-6, MW-11, MW-13, MW-19, and PW-1. Perchlorate was detected in groundwater samples collected from MW-1 at concentrations ranging from 67 µg/L to 73 µg/L; from MW-2 at concentrations ranging from 87 µg/L to 90 µg/L; from MW-5 at concentrations ranging from 20 µg/L to 25 µg/L; from MW-6 at concentrations ranging from 14 µg/L to 18 µg/L; from MW-13 at concentrations ranging from 6.4 µg/L to 8.7 µg/L; from MW-19 at concentrations ranging from 45,000 µg/L to 55,000 µg/L; from PW-1 at concentrations ranging from 3.8 µg/L and 4.4 µg/L; and from MW-11 at a concentration of 2.0 µg/L.

Perchlorate was not detected at concentrations above the laboratory reporting limit (2.0 µg/L) in the remaining UPCO monitor wells.

During the 2011 monitoring period, perchlorate was not detected in the private domestic wells at a concentration above the EPA Method 314.0 laboratory reporting limit of 2.0 µg/L, except for 16 East Yearling Yard at a concentration of 2.0 µg/L.

Groundwater collected from the site wells that historically have not detected perchlorate at concentrations above 2.0 µg/L, and each of the private domestic wells, were analyzed for perchlorate using two analytical test methods. In addition to EPA Method 314.0, these samples were also analyzed for EPA Method 332.0. Two methods were performed for a comparative analysis between different perchlorate analytical testing methods. The results of the perchlorate comparative analyses for the site wells are included in Table 6, and show Method 332.0 concentration values ranging between 0.53 µg/L in monitor well MW-3 and 2.7 µg/L in monitor well MW-9. The results of the perchlorate comparative analysis for the private wells are included in Table 7, and show Method 332.0 concentration values ranging between 0.00089 µg/L and 2.1 µg/L.

4.2.2. VOCs

Three VOCs were detected during 2011 groundwater sampling activities including 1,1-dichloroethene (1,1-DCE), 1,1-dichloroethane (1,1-DCA), and 1,4-dioxane. These detections were at concentrations below the applicable Arizona Aquifer Water Quality Standard (AWQS). 1,1-DCE was detected in groundwater samples collected from PW-1 at concentrations of 5.0 µg/L and 6.2 µg/L during the first and third quarter sampling events, respectively. The AWQS for 1,1-DCE is 7.0 µg/L. 1,1-DCA was detected in PW-1 at concentrations of 0.61 µg/L and 0.72 µg/L during the first and third quarter sampling events, respectively. A numeric standard has not been established for 1,1-DCA. 1,4-dioxane was detected in samples collected at MW-2 and PW-1 at concentrations ranging from 2.6 µg/L to 3.0 µg/L. 1,4-Dioxane does not have an applicable AWQS.

4.2.3. Metals

Arsenic was detected in each of the UPCO monitor wells in 2011 and ranged in concentration from 0.0019 mg/L to 0.048 mg/L in monitor wells MW-8 and MW-13. The AWQS for arsenic is 0.05 mg/L. Barium was detected in each of the UPCO monitor wells and ranged in concentration from 0.006 mg/L to 0.29 mg/L in MW-14. The AWQS for barium is 2 mg/L. Chromium was detected in monitor wells MW-1, MW-2, MW-5, MW-6, MW-7, MW-8, MW-10, MW-11, MW-12, MW-17, MW-18, MW-19, and PW-1 and ranged in concentration from 0.0015 mg/L to 0.031 mg/L. The AWQS for chromium is 0.1 mg/L. Lead was detected in monitor wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-10, MW-12, MW-13, MW-14, MW-15, MW-17, MW-19, and PW-1, and ranged in concentration from 0.0011 mg/L to 0.0018 mg/L in MW-6. The AWQS for lead is 0.05 mg/L. Selenium was detected in monitor wells MW-11, MW-17, and MW-19 and ranged in concentration from 0.002 mg/L to 0.0044 mg/L. The AWQS for selenium is 0.05 mg/L. Monitor wells MW-16, MW-17, and MW-19 were analyzed for calcium, magnesium, potassium, and sodium. Calcium detections ranged in concentration from 30 mg/L to 41 mg/L; magnesium detections ranged in concentration from 9.5 mg/L to 15 mg/L; potassium detections ranged in concentration from 2.9 mg/L to 7.5 mg/L; and sodium detections ranged in concentration from 35 mg/L to 50 mg/L. A numeric standard has not been established for cations. No other metals analyzed during the monitoring period were detected above the laboratory detection limits. Results for monitor well groundwater quality are provided in Appendix E.

4.3. Soil Vapor Quality Data

Soil gas samples were collected from soil vapor monitor well SVMW-1 and analytical results are provided in Table 8. The primary COPC, 1,1-DCE, ranged from 30 ppbv (120 micrograms per cubic meters, or µg/m³) at 150 feet bgs to 6,900 ppbv (27,000 µg/m³) at 100 feet bgs. Acetone ranged from <97 ppbv (<230 µg/m³) at 40 feet bgs to 2,500 ppbv

(5,900 $\mu\text{g}/\text{m}^3$) at 100 feet bgs. Propene ranged from <0.5 ppbv (<0.86 $\mu\text{g}/\text{m}^3$) at all depths to 1,400 ppbv (2,400 $\mu\text{g}/\text{m}^3$) at 100 feet bgs. Other VOCs detected in the soil gas samples, at a lower concentration, included 1,1-DCA, 1,2,4-trimethylbenzene, 2,2,4-trimethylpentane, 2-butanone (MEK), 2-hexanone, benzene, bromomethane, carbon disulfide, carbon tetrachloride, chloroform, chloromethane, cyclohexane, dichlorodifluoromethane, ethyl acetate, ethylbenzene, Freon 113, heptanes, hexane, methylene chloride, n-octane, tetrachloroethene, toluene, trichloroethene, and xylenes. Soil vapor monitoring well results are provided in Table 8.

5. Quality Assurance and Data Verification

Analytical data provided by the laboratories were subjected to data review for quality control/quality assurance. A summary of the data verification is presented in Appendix I. Copies of the analytical data reports are provided in Appendix J.

Groundwater monitoring activities followed the quality assurance procedures outlined in the QAPP (H+A, 2004b) and QAPP Addendum (Malcolm Pirnie, 2009c; ARCADIS, 2011c). The project specific QAPP establishes procedures and guidance for the following:

- data quality objectives;
- sample documentation and custody;
- sample container requirements;
- quality control procedures; and
- quality assurance management including, data management and data verification/validation procedures.

Samples were collected and submitted to the laboratory in a manner that provides data that are representative of site conditions. Laboratory analyses were conducted according to analytical methods described in EPA guidance manuals. Field quality control (QC) samples included field duplicates and trip blanks. Laboratory QC samples included method blanks, laboratory control samples (LCS), and matrix spike/matrix spike duplicate (MS/MSD) samples.

Laboratory deliverables consist of Level II data packages (including a QC summary). Data reported by the laboratory has been verified that the data meets the data quality objectives (DQOs). The results were considered usable for the intended purposes, and the project DQOs specified in the QAPP (H+A, 2004b) and the QAPP Addendum (Malcolm Pirnie, 2009c; ARCADIS, 2011c) were met.

6. Future Monitoring Activities

The 2011 monitoring program was conducted in accordance with the procedures and methods outlined in the Updated GWMP (Malcolm Pirnie, 2008a; ARCADIS, 2011d). UPCO revised the monitoring program in 2010 to include the quarterly monitoring requirements for groundwater monitoring well MW-18, and planned monitoring wells MW-16, MW-17, and MW-19. These changes were incorporated in the Updated GWMP (ARCADIS, 2011d). The former production well, PW-1, was converted to a monitor well in September 2011 and will continue to be utilized for site-wide monitoring. Private domestic wells will continue to be monitored on a semi-annual basis, in the first and third quarters of 2012. The 2012 sampling and analysis schedule is summarized in Table 10.

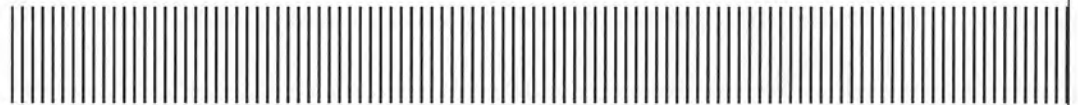
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- _____, 2011d. Updated Groundwater Monitoring Work Plan, Universal Propulsion Company, Inc., October 13, 2011.

Universal Propulsion Company
2011 Annual Monitoring Report

Tables



**Table 1
UPCO Monitor Well Information**

Well ID	Longitude	Latitude	ADWR Number	Total Casing Depth (feet bgs)	Screened Interval (feet bgs)	Measuring Point Elevation **** (feet amsl)
MW-1	112°04'13.76"W	33°42'47.61"N	55-201495	240	190-240	1557.22 [1560.43]
MW-2	112°04'13.03"W	33°42'53.39"N	55-201494	250	200-250	1567.62 [1571.22]
MW-3	112°04'20.91"W	33°43'03.49"N	55-204197	271	221-271	1583.59
MW-4	112°04'01.27"W	33°43'06.49"N	55-204196	300	245-295	1620.34
MW-5	112°04'04.97"W	33°42'58.13"N	55-204195	285	230-280	1590.45 [1594.08]
MW-6	112°04'25.09"W	33°42'50.47"N	55-204194	210	155-205	1548.22 [1551.65]
MW-7	112°04'26.79"W	33°42'42.34"N	55-205001	210	155-205	1541.35
MW-8	112°04'11.43"W	33°42'38.66"N	55-205002	235	180-230	1542.18
MW-9	112°04'00.37"W	33°42'38.46"N	55-901548	255	200-250	1565.60
MW-10	112°04'36.07"W	33°42'47.49"N	55-901549	205	150-200	1536.11
MW-11	112°04'02.46"W	33°42'54.85"N	55-903736	315	260-310	1603.35 [1606.14]
MW-12	112°04'13.93"W	33°42'88.09"N	55-903737	480	450-480	1557.46 [1560.91]
MW-13	112°04'02.97"W	33°42'59.55"N	55-217221	490	440-490	1595.77 [1599.52]
MW-14	112°04'13.66"W	33°43'10.34"N	55-217222	500	445-495	1602.48
MW-15	112°04'13.82"W	33°43'09.86"N	55-217223	325	270-320	1600.48
MW-16*	33°43'04.05"N	112°04'20.93"W	55-913047	500	445-495	1585.36
MW-17*	33°42'54.33"N	112°04'27.02"W	55-913046	260	205-255	1560.72
MW-18	112°04'21.74"W	33°42'37.32"N	55-911047	230	175-225	1533.53
MW-19*	33°42'59.39"N	112°04'03.14"W	55-913045	260	205-255	1599.51
SVMW-1**	112°04'17.61"W	33°42'52.99"N	55-909947	200***	30 - 40 90 - 100 140 - 150 190 - 200	NA
Production Well (PW-1)	112°04'24.00"W	33°42'51.40"N	55-500290	500	420-480	1554.55

Notes:

* = Installed during the 2nd Quarter in 2011. Measuring points were surveyed on April 15, 2011.

** = SVMW-1 is a Soil Vapor Monitoring Well constructed above groundwater level

*** = Total depth of the nested well

**** = Measuring points were resurveyed on September 28, 2009 at wells MW-1, MW-2, MW-5, MW-6, MW-12, and MW-13 and on June 10, 2010 at MW-11 after monument installation, revised elevation is indicated in brackets.

ADWR = Arizona Department of Water Resources

amsl = Above mean sea level

bgs = below ground surface

NA = Not applicable

**Table 2
Private Well Information**

Address	ADWR Well Registratoin ID	Well Use	Date Installed	Well Depth (Feet)	Measuring Point Elevation (feet amsl)
616/604 E. YEARLING	NA	Domestic	NA	NA	NA
520 E. YEARLING	NA	Domestic	NA	NA	1635.71
424 E. YEARLING	NA	Domestic	NA	NA	NA
412 E. YEARLING	NA	Domestic	NA	NA	NA
218 E. YEARLING	55-207497*	Domestic	2/28/2006	415	1617.01
204 E. YEARLING	NA	Domestic	NA	NA	NA
25903 N. 2ND ST	NA	Domestic	NA	NA	NA
25825 N. 1ST PLACE	55-557685	Domestic	7/22/1996	495	NA
16 E. YEARLING	55-578534	Domestic	1/26/2000	738	NA
18 E. YEARLING	55-212662	Domestic	5/14/2007	520	1596.79
8 W. YEARLING	55-205738	Domestic	12/2/2005	260	NA
106 W. YEARLING	55-583418	Domestic	1/9/2001	440	NA
122 W. YEARLING	NA	Domestic	NA	NA	NA

Notes:

NA = not available or corresponding ADWR registry number could not be identified with the current owner or address.

* = Replacement well installed in 2006

Table 3
UPCO Monitor Wells Sampled and Analyses Performed in 2011

Sample ID	Date	Laboratory ID	Metals			Perchlorate		Volatile Organic Compounds		Inorganics		
			200.7	200.8	245.1	314.0	332.0	8260B	8260B-SIM	300.0	SM 2540C	SM 2320B
MW-1	03/02/11	PUC0174-05		X	X	X		X	X			
	04/26/11	PUD1525-02				X						
	10/27/11	PUJ1701-03				X		X	X			
MW-2	03/02/11	PUC0174-06		X	X	X		X	X			
	04/26/11	PUD1525-03				X						
	10/27/11	PUJ1701-01				X		X	X			
MW-3	02/25/11	PUB1607-06		X	X	X		X	X			
	02/25/11	PUB1619-01					X					
	07/28/11	PUG1811-04					X					
	07/28/11	PUG1815-04				X						
MW-4	02/25/11	PUB1607-03		X	X	X		X	X			
	02/25/11	PUB1616-01					X					
	07/29/11	PUG1900-01					X					
	07/29/11	PUG1899-01				X						
MW-5	03/02/11	PUC0174-04		X	X	X		X	X			
	04/26/11	PUD1525-01				X						
	07/29/11	PUG1899-04				X						
	10/26/11	PUJ1621-03				X						
MW-6	02/25/11	PUB1607-07		X	X	X		X	X			
	04/27/11	PUD1587-01				X						
	07/28/11	PUG1815-05				X						
	10/27/11	PUJ1701-02				X						
MW-7	02/25/11	PUB1607-05		X	X	X		X	X			
	02/25/11	PUB1618-01					X					
	07/28/11	PUG1811-01					X					
	07/28/11	PUG1815-01				X						
MW-8	03/01/11	PUC0076-01					X					
	03/01/11	PUC0073-05		X	X	X		X	X			
	07/28/11	PUG1811-02					X					
	07/28/11	PUG1815-02		X	X	X						
MW-9	03/01/11	PUC0077-01					X					
	03/01/11	PUC0073-06		X	X	X		X	X			
	07/27/11	PUG1719-01					X					
	07/27/11	PUG1726-01				X						
MW-10	02/25/11	PUB1607-04		X	X	X		X	X			
	02/25/11	PUB1617-01					X					
	07/28/11	PUG1815-03				X						
	07/28/11	PUG1811-03					X					
MW-11	02/28/11	PUB1675-03		X	X	X		X	X			
	02/28/11	PUB1676-01					X					
	07/29/11	PUG1900-03					X					
	07/29/11	PUG1899-03				X						
MW-12	03/01/11	PUC0073-07		X	X	X		X	X			
	03/01/11	PUC0078-01					X					
	07/29/11	PUG1899-05				X						
	07/29/11	PUG1900-04					X					
MW-13	03/02/11	PUC0174-03		X	X	X		X	X			
	04/27/11	PUD1587-02				X						
	08/02/11	PUH0158-03				X						
	10/26/11	PUJ1621-02				X						
MW-14	03/01/11	PUC0073-03						X				
	03/01/11	PUC0075-01					X					
	03/01/11	PUC0073-03		X	X	X		X	X			
	08/02/11	PUH0158-01				X						

**Table 3
UPCO Monitor Wells Sampled and Analyses Performed in 2011**

Sample ID	Date	Laboratory ID	Metals			Perchlorate		Volatile Organic Compounds		Inorganics		
			200.7	200.8	245.1	314.0	332.0	8260B	8260B-SIM	300.0	SM 2540C	SM 2320B
MW-15	03/01/11	PUC0073-04		X	X	X		X	X			
	03/01/11	PUC0074-01					X					
	07/29/11	PUG1900-02					X					
	07/29/11	PUG1899-02				X						
MW-16	04/28/11	PUD1694-01					X					
	04/28/11	PUD1699-04	X	X	X	X		X	X	X	X	X
	08/02/11	PUH0158-02				X						
MW-17	04/28/11	PUD1695-01					X					
	04/28/11	PUD1699-03	X	X	X	X		X	X	X	X	X
MW-18	03/30/11	PUC1923-01					X					
	03/30/11	PUC1922-03		X	X	X		X	X			
	08/02/11	PUH0158-04		X	X	X						
MW-19	04/28/11	PUD1699-05	X	X	X	X		X	X	X	X	X
	08/03/11	PUH0188-01				X						
	10/27/11	PUJ1701-04				X						

Notes:

- EPA test method 200.7 used for calcium, magnesium, potassium, and sodium analyses
- EPA test method 200.8 used for arsenic, barium, cadmium, chromium, lead, selenium, and silver analyses
- EPA test method 245.1 used for mercury analysis
- EPA test methods 314.0 and 332.0 used for perchlorate analyses
- EPA test method 8260B used for volatile organic compound analyses
- EPA test method 8260B-SIM used for 1,4-dioxane analyses
- EPA test method 300.0 used for chloride, nitrate-n, and sulfate analyses
- Standard Method 2540C used for total dissolved solids analyses
- Standard Method 2320B used for alkalinity analyses
- Monitor wells MW-16, MW-17, and MW-19 were installed during the 2nd Quarter of 2011

Table 4
2011 UPCO Monitor Well Water Levels

Well ID	Date	Depth to Water (ft)	Measuring Point Elevation (ft)	Groundwater Elevation (ft amsl)
MW-1	2/23/2011	211.71	1560.43	1348.72
	3/22/2011	211.73	1560.43	1348.70
	4/26/2011	211.77	1560.43	1348.66
	5/27/2011	211.95	1560.43	1348.48
	6/30/2011	211.79	1560.43	1348.64
	7/25/2011	212.02	1560.43	1348.41
	9/2/2011	211.81	1560.43	1348.62
	9/27/2011	211.82	1560.43	1348.61
	10/24/2011	211.88	1560.43	1348.55
	11/28/2011	211.90	1560.43	1348.53
	12/27/2011	211.92	1560.43	1348.51
MW-2	2/23/2011	222.53	1571.22	1348.69
	3/22/2011	222.60	1571.22	1348.62
	4/26/2011	222.55	1571.22	1348.67
	5/27/2011	222.56	1571.22	1348.66
	6/30/2011	222.61	1571.22	1348.61
	7/25/2011	222.84	1571.22	1348.38
	9/2/2011	222.61	1571.22	1348.61
	9/27/2011	221.61	1571.22	1349.61
	10/24/2011	222.71	1571.22	1348.51
	11/28/2011	222.71	1571.22	1348.51
	12/27/2011	222.76	1571.22	1348.46
MW-3	2/23/2011	240.15	1583.59	1343.44
	3/22/2011	240.46	1583.59	1343.13
	4/25/2011	240.53	1583.59	1343.06
	5/27/2011	240.77	1583.59	1342.82
	6/30/2011	240.81	1583.59	1342.78
	7/25/2011	241.04	1583.59	1342.55
	9/2/2011	241.11	1583.59	1342.48
	9/27/2011	241.15	1583.59	1342.44
	10/24/2011	241.23	1583.59	1342.36
	11/28/2011	241.26	1583.59	1342.33
	12/27/2011	241.42	1583.59	1342.17

Table 4
2011 UPCO Monitor Well Water Levels

Well ID	Date	Depth to Water (ft)	Measuring Point Elevation (ft)	Groundwater Elevation (ft amsl)
MW-4	2/23/2011	276.84	1620.34	1343.50
	3/22/2011	276.97	1620.34	1343.37
	4/25/2011	276.92	1620.34	1343.42
	5/27/2011	276.94	1620.34	1343.40
	6/30/2011	277.11	1620.34	1343.23
	7/25/2011	277.39	1620.34	1342.95
	9/2/2011	277.28	1620.34	1343.06
	9/27/2011	277.29	1620.34	1343.05
	10/24/2011	277.38	1620.34	1342.96
	11/28/2011	277.53	1620.34	1342.81
	12/27/2011	277.59	1620.34	1342.75
MW-5	2/23/2011	245.38	1594.08	1348.70
	3/22/2011	245.37	1594.08	1348.71
	4/26/2011	245.43	1594.08	1348.65
	5/27/2011	245.39	1594.08	1348.69
	6/30/2011	245.41	1594.08	1348.67
	7/25/2011	245.64	1594.08	1348.44
	9/2/2011	245.44	1594.08	1348.64
	9/27/2011	245.45	1594.08	1348.63
	10/24/2011	245.50	1594.08	1348.58
	11/28/2011	245.53	1594.08	1348.55
	12/27/2011	245.56	1594.08	1348.52
MW-6	2/23/2011	162.70	1551.65	1388.95
	3/22/2011	163.03	1551.65	1388.62
	4/26/2011	162.62	1551.65	1389.03
	5/27/2011	162.82	1551.65	1388.83
	6/30/2011	162.68	1551.65	1388.97
	7/25/2011	163.13	1551.65	1388.52
	9/2/2011	163.19	1551.65	1388.46
	9/27/2011	163.47	1551.65	1388.18
	10/24/2011	163.80	1551.65	1387.85
	11/28/2011	164.37	1551.65	1387.28
	12/27/2011	164.70	1551.65	1386.95

Table 4
2011 UPCO Monitor Well Water Levels

Well ID	Date	Depth to Water (ft)	Measuring Point Elevation (ft)	Groundwater Elevation (ft amsl)
MW-7	2/23/2011	162.20	1541.35	1379.15
	3/22/2011	162.36	1541.35	1378.99
	4/25/2011	162.25	1541.35	1379.10
	5/27/2011	162.24	1541.35	1379.11
	6/30/2011	162.93	1541.35	1378.42
	7/25/2011	162.66	1541.35	1378.69
	9/2/2011	162.41	1541.35	1378.94
	9/27/2011	162.42	1541.35	1378.93
	10/24/2011	162.50	1541.35	1378.85
	11/28/2011	162.64	1541.35	1378.71
	12/27/2011	162.61	1541.35	1378.74
MW-8	2/23/2011	193.59	1542.18	1348.59
	3/22/2011	193.66	1542.18	1348.52
	4/25/2011	193.60	1542.18	1348.58
	5/27/2011	193.65	1542.18	1348.53
	6/30/2011	193.68	1542.18	1348.50
	7/25/2011	193.85	1542.18	1348.33
	9/2/2011	193.69	1542.18	1348.49
	9/27/2011	193.70	1542.18	1348.48
	10/24/2011	193.76	1542.18	1348.42
	11/28/2011	193.74	1542.18	1348.44
	12/27/2011	193.75	1542.18	1348.43
MW-9	2/23/2011	216.90	1565.60	1348.70
	3/22/2011	216.92	1565.60	1348.68
	4/25/2011	216.86	1565.60	1348.74
	5/27/2011	216.93	1565.60	1348.67
	6/30/2011	216.93	1565.60	1348.67
	7/25/2011	217.11	1565.60	1348.49
	9/2/2011	216.92	1565.60	1348.68
	9/27/2011	216.94	1565.60	1348.66
	10/24/2011	216.99	1565.60	1348.61
	11/28/2011	216.95	1565.60	1348.65
	12/27/2011	217.00	1565.60	1348.60

Table 4
2011 UPCO Monitor Well Water Levels

Well ID	Date	Depth to Water (ft)	Measuring Point Elevation (ft)	Groundwater Elevation (ft amsl)
MW-10	2/23/2011	154.90	1536.11	1381.21
	3/22/2011	154.95	1536.11	1381.16
	4/25/2011	154.93	1536.11	1381.18
	5/27/2011	154.93	1536.11	1381.18
	6/30/2011	155.00	1536.11	1381.11
	7/25/2011	155.40	1536.11	1380.71
	9/2/2011	155.12	1536.11	1380.99
	9/27/2011	155.22	1536.11	1380.89
	10/24/2011	155.31	1536.11	1380.80
	11/28/2011	155.51	1536.11	1380.60
	12/27/2011	155.57	1536.11	1380.54
MW-11	2/23/2011	254.81	1603.35	1348.54
	3/22/2011	254.81	1603.35	1348.54
	4/25/2011	254.79	1603.35	1348.56
	5/27/2011	254.82	1603.35	1348.53
	6/30/2011	254.85	1603.35	1348.50
	7/25/2011	255.09	1603.35	1348.26
	9/2/2011	254.86	1603.35	1348.49
	9/27/2011	254.89	1603.35	1348.46
	10/24/2011	254.93	1603.35	1348.42
	11/28/2011	254.94	1603.35	1348.41
	12/27/2011	254.99	1603.35	1348.36
MW-12	2/23/2011	213.34	1560.91	1347.57
	3/22/2011	213.39	1560.91	1347.52
	4/25/2011	213.33	1560.91	1347.58
	5/27/2011	212.37	1560.91	1348.54
	6/30/2011	213.41	1560.91	1347.50
	7/25/2011	213.67	1560.91	1347.24
	9/2/2011	213.46	1560.91	1347.45
	9/27/2011	213.43	1560.91	1347.48
	10/24/2011	213.52	1560.91	1347.39
	11/28/2011	213.52	1560.91	1347.39
	12/27/2011	213.54	1560.91	1347.37

Table 4
2011 UPCO Monitor Well Water Levels

Well ID	Date	Depth to Water (ft)	Measuring Point Elevation (ft)	Groundwater Elevation (ft amsl)
MW-13	2/23/2011	250.82	1599.52	1348.70
	3/22/2011	250.86	1599.52	1348.66
	4/26/2011	250.82	1599.52	1348.70
	5/27/2011	250.82	1599.52	1348.70
	6/30/2011	250.92	1599.52	1348.60
	7/25/2011	251.22	1599.52	1348.30
	9/2/2011	250.90	1599.52	1348.62
	9/27/2011	250.87	1599.52	1348.65
	10/24/2011	250.98	1599.52	1348.54
	11/28/2011	250.93	1599.52	1348.59
	12/27/2011	251.03	1599.52	1348.49
MW-14	2/23/2011	266.62	1602.48	1335.86
	3/22/2011	266.57	1602.48	1335.91
	4/25/2011	266.85	1602.48	1335.63
	5/27/2011	267.75	1602.48	1334.73
	6/30/2011	267.44	1602.48	1335.04
	7/25/2011	267.81	1602.48	1334.67
	9/2/2011	268.00	1602.48	1334.48
	9/27/2011	268.12	1602.48	1334.36
	10/24/2011	268.11	1602.48	1334.37
	11/28/2011	268.04	1602.48	1334.44
	12/27/2011	268.10	1602.48	1334.38
MW-15	2/23/2011	265.33	1600.48	1335.15
	3/22/2011	265.45	1600.48	1335.03
	4/25/2011	265.35	1600.48	1335.13
	5/27/2011	265.84	1600.48	1334.64
	6/30/2011	265.90	1600.48	1334.58
	7/25/2011	266.19	1600.48	1334.29
	9/2/2011	266.25	1600.48	1334.23
	9/27/2011	266.27	1600.48	1334.21
	10/24/2011	266.51	1600.48	1333.97
	11/28/2011	266.58	1600.48	1333.90
	12/27/2011	266.70	1600.48	1333.78

Table 4
2011 UPCO Monitor Well Water Levels

Well ID	Date	Depth to Water (ft)	Measuring Point Elevation (ft)	Groundwater Elevation (ft amsl)
MW-16	4/25/2011	253.89	1585.36	1331.47
	5/27/2011	254.05	1585.36	1331.31
	6/30/2011	254.26	1585.36	1331.10
	7/25/2011	254.35	1585.36	1331.01
	9/2/2011	254.40	1585.36	1330.96
	9/27/2011	254.38	1585.36	1330.98
	10/24/2011	254.59	1585.36	1330.77
	11/28/2011	255.64	1585.36	1329.72
	12/27/2011	254.84	1585.36	1330.52
MW-17	4/25/2011	206.72	1560.72	1354.00
	5/27/2011	206.78	1560.72	1353.94
	6/30/2011	206.92	1560.72	1353.80
	7/25/2011	207.18	1560.72	1353.54
	9/2/2011	206.93	1560.72	1353.79
	9/27/2011	207.06	1560.72	1353.66
	10/24/2011	207.15	1560.72	1353.57
	11/28/2011	207.24	1560.72	1353.48
	12/27/2011	207.33	1560.72	1353.39
MW-18	2/23/2011	130.17	1533.53	1403.36
	3/22/2011	130.20	1533.53	1403.33
	4/25/2011	130.99	1533.53	1402.54
	5/27/2011	130.70	1533.53	1402.83
	6/30/2011	130.61	1533.53	1402.92
	7/25/2011	130.84	1533.53	1402.69
	9/2/2011	130.99	1533.53	1402.54
	9/27/2011	130.91	1533.53	1402.62
	10/24/2011	130.88	1533.53	1402.65
	11/28/2011	131.00	1533.53	1402.53
12/27/2011	130.98	1533.53	1402.55	

Table 4
2011 UPCO Monitor Well Water Levels

Well ID	Date	Depth to Water (ft)	Measuring Point Elevation (ft)	Groundwater Elevation (ft amsl)
MW-19	4/25/2011	250.80	1599.51	1348.71
	5/27/2011	251.40	1599.51	1348.11
	6/30/2011	250.87	1599.51	1348.64
	7/25/2011	251.05	1599.51	1348.46
	9/2/2011	250.88	1599.51	1348.63
	9/27/2011	250.90	1599.51	1348.61
	10/24/2011	250.94	1599.51	1348.57
	11/28/2011	250.94	1599.51	1348.57
	12/27/2011	251.00	1599.51	1348.51
PW-1	9/27/2011	209.02	1554.55	1345.53
	10/24/2011	209.03	1554.55	1345.52
	11/28/2011	209.20	1554.55	1345.35
	12/27/2011	209.12	1554.55	1345.43

Notes:

Measuring points were resurveyed on September 28, 2009 at wells MW-1, MW-2, MW-5, MW-6, MW-12, and MW-13.

Measuring point was resurveyed on June 10, 2010 at well MW-11.

Monitor wells MW-16, MW-17, and MW-19 were installed during the 2nd quarter of 2011

ft = feet

amsl = Above mean sea level

Table 5
Private Wells Sampled and Analyses Performed in 2011

Sample ID	Date Collected	Laboratory ID	EPA Method	
			314.0	332.0
106 W. Yearling	07/26/11	PUG1621-01		X
	07/26/11	PUG1639-01	X	
122 W. Yearling	02/25/11	PUB1608-01	X	
	02/25/11	PUB1615-01		X
	07/26/11	PUG1629-01	X	
	07/26/11	PUG1615-01		X
16 E. Yearling	02/24/11	PUB1530-01	X	
	02/24/11	PUB1535-01		X
	07/26/11	PUG1620-02		X
	07/26/11	PUG1632-02	X	
18 E. Yearling	02/23/11	PUB1430-01	X	
	02/23/11	PUB1434-01		X
204 E. Yearling	02/23/11	PUB1431-01	X	
	02/23/11	PUB1435-01		X
	07/26/11	PUG1631-01	X	
	07/26/11	PUG1619-01		X
218 E. Yearling	02/23/11	PUB1429-01	X	
	02/23/11	PUB1433-01		X
	07/26/11	PUG1609-01		X
	07/26/11	PUG1612-01	X	
25825 N. 1st Place	02/24/11	PUB1531-01	X	
	02/24/11	PUB1536-01		X
	07/27/11	PUG1724-01		X
	07/27/11	PUG1729-01	X	
25903 N. 2nd St	02/24/11	PUB1533-01	X	
	02/24/11	PUB1537-01		X
412 E. Yearling	02/25/11	PUB1609-01	X	
	02/25/11	PUB1614-01		X
	07/27/11	PUG1727-01	X	
	07/27/11	PUG1723-01		X
424 E. Yearling	02/25/11	PUB1611-01	X	
	02/25/11	PUB1612-01		X
	07/26/11	PUG1623-01		X
	07/26/11	PUG1637-01	X	
520 E. Yearling	02/23/11	PUB1428-01	X	
	02/23/11	PUB1432-01		X
	07/26/11	PUG1626-01		X
	07/26/11	PUG1635-01	X	

Table 5
Private Wells Sampled and Analyses Performed in 2011

Sample ID	Date Collected	Laboratory ID	EPA Method	
			314.0	332.0
604-616 E. Yearling	02/25/11	PUB1610-01	X	
	02/25/11	PUB1613-01		X
	07/26/11	PUG1634-01	X	
	07/26/11	PUG1627-01		X
8 W. Yearling	02/24/11	PUB1529-01	X	
	02/24/11	PUB1534-01		X
	07/26/11	PUG1630-01	X	
	07/26/11	PUG1617-01		X

Notes:

EPA test methods 314.0 and 332.0 used for perchlorate analyses

Table 6
2011 UPCO Monitor Well Perchlorate Results

Sample ID	Date	Perchlorate (ug/L)	
		EPA 314.0	EPA 332.0
MW-1	03/02/11	67	NA
	04/26/11	70	NA
	10/27/11	73	NA
MW-2	03/02/11	87	NA
	04/26/11	87	NA
	10/27/11	90	NA
MW-3	02/25/11	<2.0	0.53
	07/28/11	<2.0	0.59
MW-4	02/25/11	<2.0	0.61
	07/29/11	<2.0	0.61
MW-5	03/02/11	20	NA
	04/26/11	23	NA
	07/29/11	22	NA
	10/26/11	25	NA
MW-6	02/25/11	17	NA
	04/27/11	18	NA
	07/28/11	14	NA
	10/27/11	18	NA
MW-7	02/25/11	<2.0	0.65
	07/28/11	<2.0	0.60
MW-8	03/01/11	<2.0	1.1
	07/28/11	<2.0	1.0
MW-9	03/01/11	<2.0	0.75
	07/27/11	<2.0 UJ	2.7
MW-10	02/25/11	<2.0	1.0
	07/28/11	<2.0	0.92
MW-11	02/28/11	<2.0	2.2
	07/29/11	2.0	2.0
MW-12	03/01/11	<2.0	0.79
	07/29/11	<2.0	0.71
MW-13	03/02/11	6.4	NA
	04/27/11	7.0	NA
	08/02/11	7.4	NA
	10/26/11	8.7	NA
MW-14	03/01/11	<2.0	0.90
	08/02/11	<2.0	NA
MW-15	03/01/11	<2.0	0.79
	07/29/11	<2.0	0.77

Table 6
2011 UPCO Monitor Well Perchlorate Results

Sample ID	Date	Perchlorate (ug/L)	
		EPA 314.0	EPA 332.0
MW-16	04/28/11	<2.0	0.65
	08/02/11	<2.0	NA
MW-17	04/28/11	<2.0	0.73
MW-18	03/30/11	<2.0	<0.50 UJ
	08/02/11	<2.0	NA
MW-19	04/28/11	55000	NA
	08/03/11	48000	NA
	10/27/11	45000	NA
PW-1	03/30/11	3.8	NA
	09/06/11	4.1	NA
	10/25/11	4.4	NA

Notes:

NA = Not analyzed

< = Analyte not detected above the listed laboratory reporting limit

J = Analyte was positively identified, however the result should be considered an estimated value

UJ = The reporting limit is considered an estimated value

ug/L = Micrograms per liter

Table 7
2011 Private Well Perchlorate Results

Sample ID	Date	Perchlorate (ug/L)	
		EPA 314.0	EPA 332.0
106 W. Yearling	07/26/11	<2.0 UJ	0.57
122 W. Yearling	02/25/11	<2.0	0.68
	07/26/11	<2.0 UJ	0.63
16 E. Yearling	02/24/11	<2.0	1.8
	07/26/11	<2.0 UJ	0.65
18 E. Yearling	02/23/11	<2.0	0.00099
204 E. Yearling	02/23/11	<2.0	0.00089
	07/26/11	<2.0 UJ	0.72
218 E. Yearling	02/23/11	<2.0	0.0010
	07/26/11	<2.0 UJ	0.69
25825 N. 1st Place	02/24/11	<2.0	1.0
	07/27/11	<2.0 UJ	0.67
25903 N. 2nd St	02/24/11	<2.0	0.88
412 E. Yearling	02/25/11	<2.0	1.3
	07/27/11	<2.0 UJ	1.3
424 E. Yearling	02/25/11	<2.0	1.7
	07/26/11	<2.0 UJ	1.7
520 E. Yearling	02/23/11	<2.0	0.0014
	07/26/11	<2.0 UJ	1.4
604-616 E. Yearling	02/25/11	<2.0	1.1
	07/26/11	<2.0 UJ	1.2
8 W. Yearling	02/24/11	<2.0	0.71
	07/26/11	<2.0 UJ	0.74

Notes:

ug/L = Micrograms per liter

< = Analyte not detected above the listed laboratory reporting limit

J = Analyte was positively identified, however the result should be considered an estimated value

NA=Not analyzed

Table 8
Soil Vapor Monitor Well (SVMW-1) Results

Parameter	SVMW-1-30-40				SVMW-1-90-100				SVMW-1-140-150				SVMW-1-190-200			
	2/24/2011	4/25/2011	7/26/2011	10/25/2011	2/24/2011	4/25/2011	7/26/2011	10/25/2011	2/24/2011	4/25/2011	7/26/2011	10/25/2011	2/24/2011	4/25/2011	7/26/2011	10/25/2011
Volatile Organic Compounds (ppbv)																
Methylene Chloride	1.0 J	<5.0	3.2 J	2.8 J	3.0 J	<5.0	2.2 J	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50
Methyl-tert-butyl Ether (MTBE)	<1.0	<9.9	<1.0	<1.0	<1.0	<9.9	<1.0	<1.0	<1.0	<9.9	<1.0	<1.0	<1.0	<10	<1.0	<1.0
Naphthalene	<5.0	<50	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<50	<5.0	<5.0
n-Butylbenzene	<0.50	<5.0	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50
n-Nonane (C9)	<0.50	<5.0	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50
n-Octane (C8)	<0.50	<5.0	<0.50	1.6	<0.50	<5.0	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50
n-Propylbenzene	<0.50	<5.0	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50
o-Xylene	<0.50	<5.0	<0.50	1.2	<0.50	<5.0	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50
Propene	70	380	<0.50	<0.50	690	1400	<0.50	<0.50	15	300	<0.50	<0.50	28	160	<0.50	<0.50
sec-Butylbenzene	<0.50	<5.0	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50
Styrene	<0.50	<5.0	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50
tert-Butylbenzene	<0.50	<5.0	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50
Tetrachloroethene	150	14	69	28	48	31	58	32	17	56	5.1	12	3.5	<5.0	4.4	4.8
Tetrahydrofuran	<2.0	<20	<2.0	<2.0	<2.0	<20	<2.0	<2.0	<2.0	<20	<2.0	<2.0	<2.0	<20	<2.0	<2.0
Toluene	<0.50	<5.0	0.85	1.4	1.5	<5.0	1.8	<0.50	<0.50	<5.0	0.62	5.5	<0.50	<5.0	<0.50	<0.50
trans-1,2-Dichloroethene	<0.50	<5.0	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50
trans-1,3-Dichloropropene	<0.50	<5.0	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50
Trichloroethene	9.3	13	28	26	60	22	29	9.9	0.67	<5.0	1.0	<0.50	0.79	<5.0	0.68	0.85
Trichlorofluoromethane	<0.50	<5.0	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50
Vinyl Acetate	<0.50	<5.0	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50
Vinyl chloride	<0.50	<5.0	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50

Notes:

< = Analyte was not detected above the listed laboratory reporting limit

J = Analyte was positively identified, however the result should be considered an estimated value

ppbv = Parts per billion by volume

Table 9
Proposed 2012 UPCO Sampling and Analysis Schedule

Well ID	Water levels	Quarter Sampled in 2012	Analyses Performed		
			Perchlorate	Metals	VOCs
MW-1	Conducted on a monthly basis	1	X (314.0)	X (200.8)	X
		2	X (314.0)		
		3	X (314.0)		X
		4	X (314.0)		
MW-2	Conducted on a monthly basis	1	X (314.0)	X (200.8)	X
		2	X (314.0)		
		3	X (314.0)		X
		4	X (314.0)		
MW-3	Conducted on a monthly basis	1	X (314.0 & 332)	X (200.8)	X
		2			
		3	X (314.0 & 332)		
		4			
MW-4	Conducted on a monthly basis	1	X (314.0 & 332)	X (200.8)	X
		2			
		3	X (314.0 & 332)		
		4			
MW-5	Conducted on a monthly basis	1	X (314.0)	X (200.8)	X
		2	X (314.0)		
		3	X (314.0)		
		4	X (314.0)		
MW-6	Conducted on a monthly basis	1	X (314.0)	X (200.8)	X
		2	X (314.0)		
		3	X (314.0)		
		4	X (314.0)		
MW-7	Conducted on a monthly basis	1	X (314.0 & 332)	X (200.8)	X
		2			
		3	X (314.0 & 332)		
		4			
MW-8	Conducted on a monthly basis	1	X (314 & 332)	X (200.8)	X
		2			
		3	X (314.0 & 332)	X (200.8)	
		4			
MW-9	Conducted on a monthly basis	1	X (314.0 & 332)	X (200.8)	X
		2			
		3	X (314.0 & 332)		
		4			

Table 9
Proposed 2012 UPCO Sampling and Analysis Schedule

Well ID	Water levels	Quarter Sampled in 2012	Analyses Performed		
			Perchlorate	Metals	VOCs
MW-10	Conducted on a monthly basis	1	X (314.0 & 332)	X (200.8)	X
		2			
		3	X (314.0 & 332)		
		4			
MW-11	Conducted on a monthly basis	1	X (314.0 & 332)	X (200.8)	X
		2			
		3	X (314.0 & 332)		
		4			
MW-12	Conducted on a monthly basis	1	X (314.0 & 332)	X (200.8)	X
		2			
		3	X (314.0 & 332)		
		4			
MW-13	Conducted on a monthly basis	1	X (314.0)	X (200.8)	X
		2	X (314.0)		
		3	X (314.0)		
		4	X (314.0)		
MW-14	Conducted on a monthly basis	1	X (314.0 & 332)	X (200.8)	X
		2			
		3	X (314.0 & 332)		
		4			
MW-15	Conducted on a monthly basis	1	X (314.0 & 332)	X (200.8)	X
		2			
		3	X (314.0 & 332)		
		4			
MW-16	Conducted on a monthly basis	1	X (314.0 & 332)	X (200.8)	X
		2			
		3	X (314.0 & 332**)		
		4			
MW-17	Conducted on a monthly basis	1	X (314.0 & 332)	X (200.8)	X
		2			
		3	X (314.0 & 332**)		
		4			
MW-18	Conducted on a monthly basis	1	X (314.0 & 332)	X (200.8)	X
		2			
		3	X (314.0 & 332)	X (200.8)	
		4			

**Table 9
Proposed 2012 UPCO Sampling and Analysis Schedule**

Well ID	Water levels	Quarter Sampled in 2012	Analyses Performed		
			Perchlorate	Metals	VOCs
MW-19	Conducted on a monthly basis	1	X (314.0)	X (200.8)	X
		2	X (314.0)		
		3	X (314.0)		
		4	X (314.0)		
PW-1	Conducted on a monthly basis	1	X (314.0)	X (200.8)	X
		2	X (314.0)		
		3	X (314.0)		X
		4	X (314.0)		
SVMW-1*	Conducted on a monthly basis	1			X (TO-15)
		2			
		3			
		4			
Private Wells	Conducted on a monthly basis***	1	X (314.0 & 332)		
		2			
		3	X (314.0 & 332)		
		4			

Notes:

Perchlorate = Test as indicated

Metals = Arsenic, barium, cadmium, chromium, lead, mercury (245.1), selenium, silver, and as noted

VOCs = Volatile organic compounds include 8260B list and 1,4-dioxane. Soil gas samples analyzed by Method TO-15

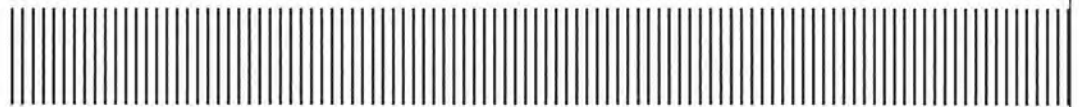
* = Soil vapor monitoring well with sample collection in 1 liter Summa canisters

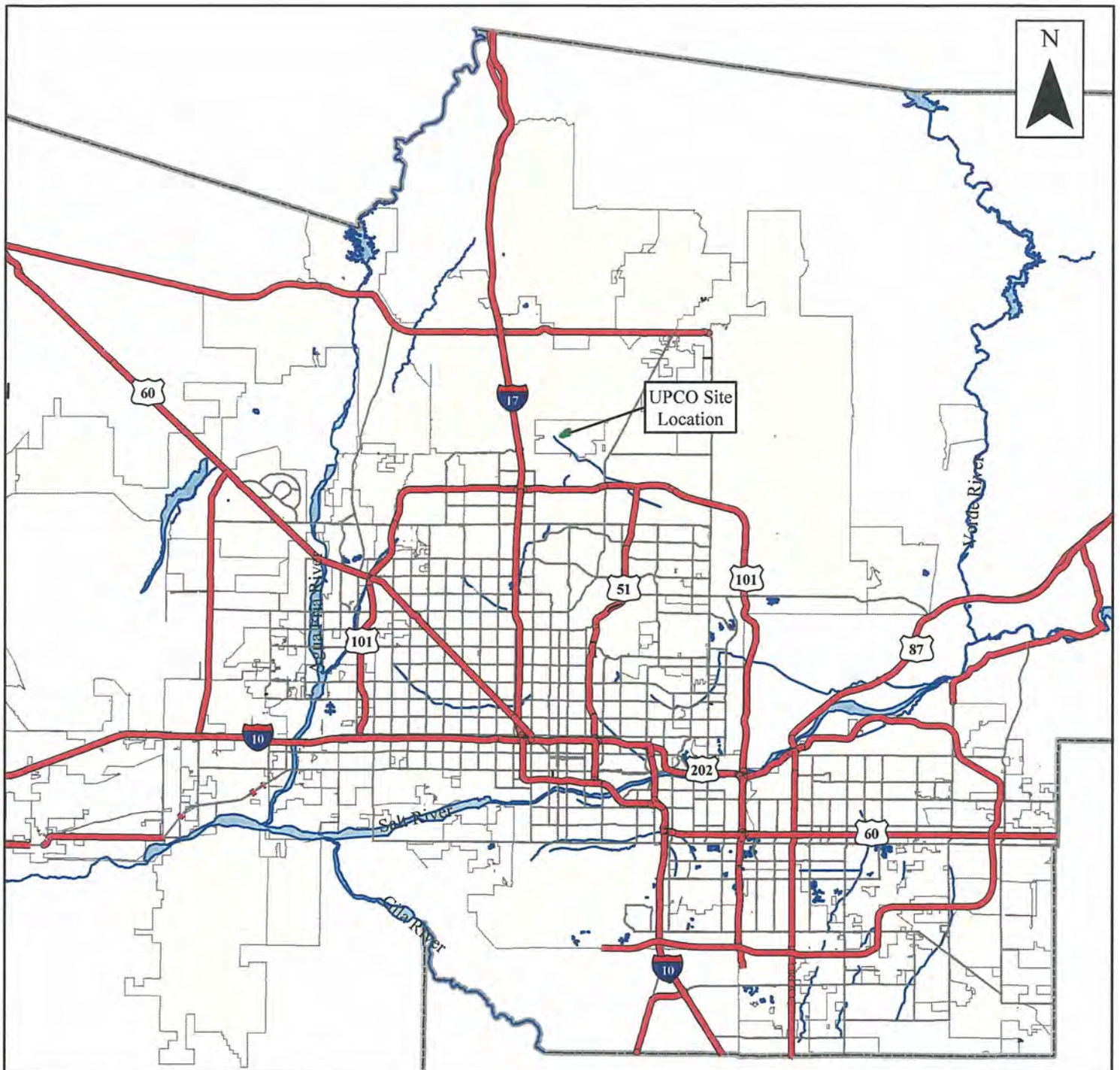
** = Perchlorate analysis using EPA Method 332 is dependent on initial results < 2.0 micrograms per liter

*** = Water levels for private wells will be conducted at 218 E. Yearling and 520 E. Yearling








Universal Propulsion Company
2011 Annual Monitoring Report

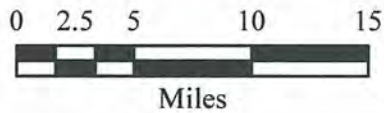

Figures





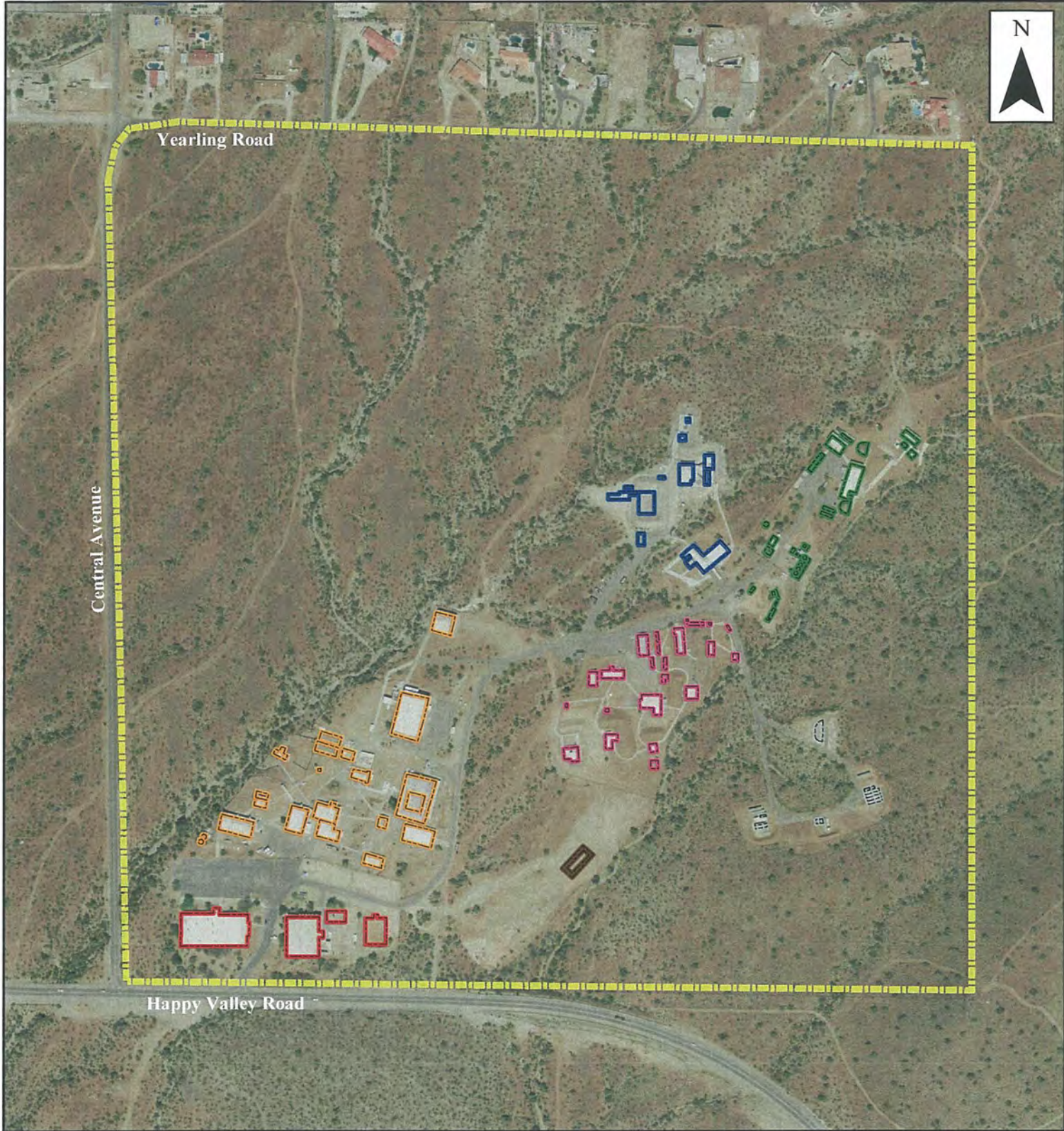
Legend

-  Highways, Freeways
-  Primary Roads
-  Rivers
-  Site Location
-  County Boundaries
-  Lakes
-  City Boundaries












Site Location Map
2011 Annual Monitoring Report

February 2012 **Figure 1**

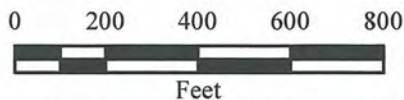


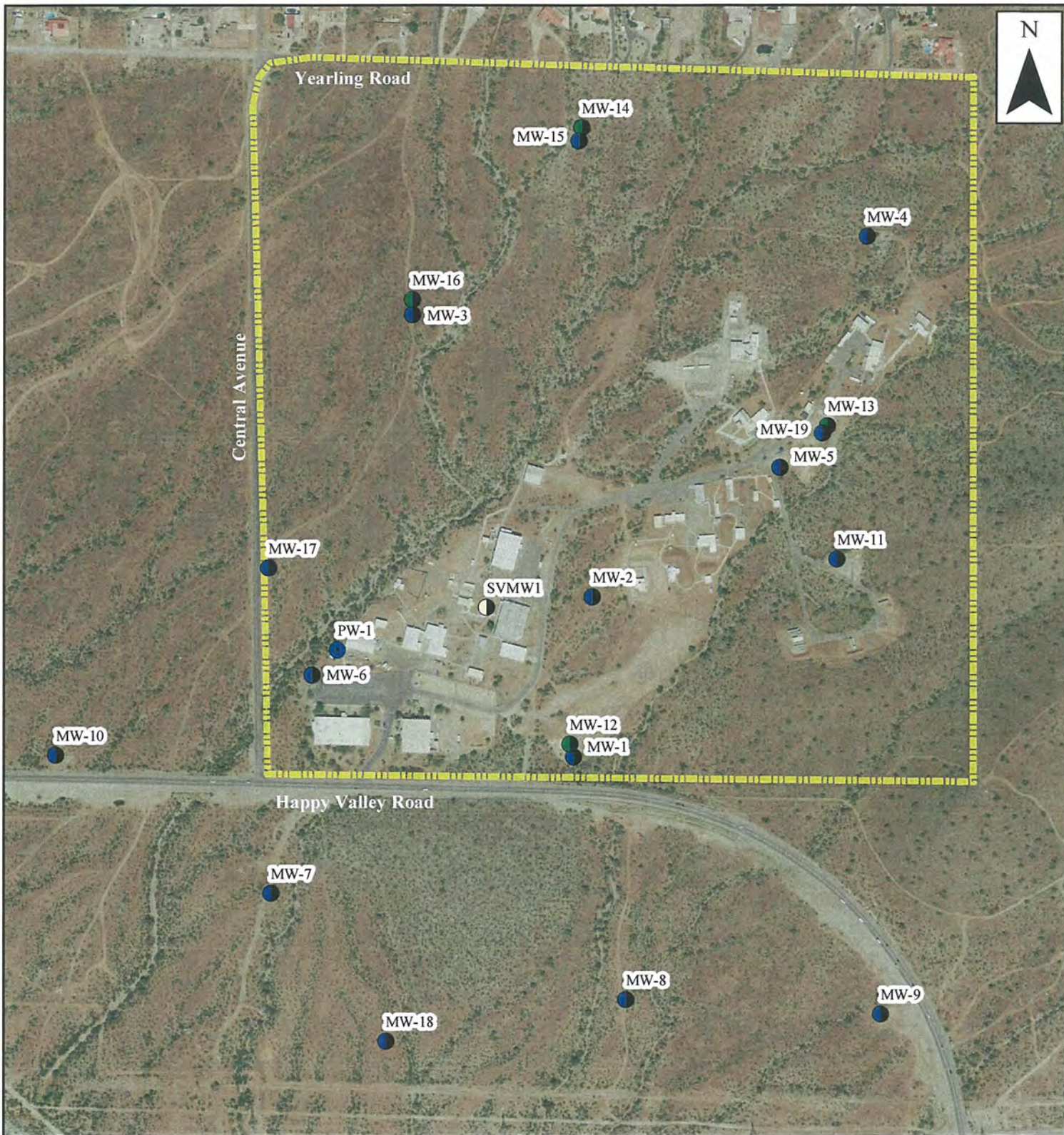
Legend

- | | | | |
|--|-----------|---|-------------------------|
|  | A-Complex |  | E-Complex |
|  | B-Complex |  | F-Complex |
|  | C-Complex |  | Open Burn Unit |
|  | D-Complex |  | Lease Property Boundary |



Site Facilities Map
2011 Annual Monitoring Report

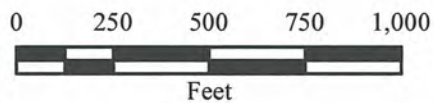




Legend

- Deep Monitor Well
- Monitor Well
- Former Production Well
- Soil Vapor Monitor Well
- Lease Property Boundary

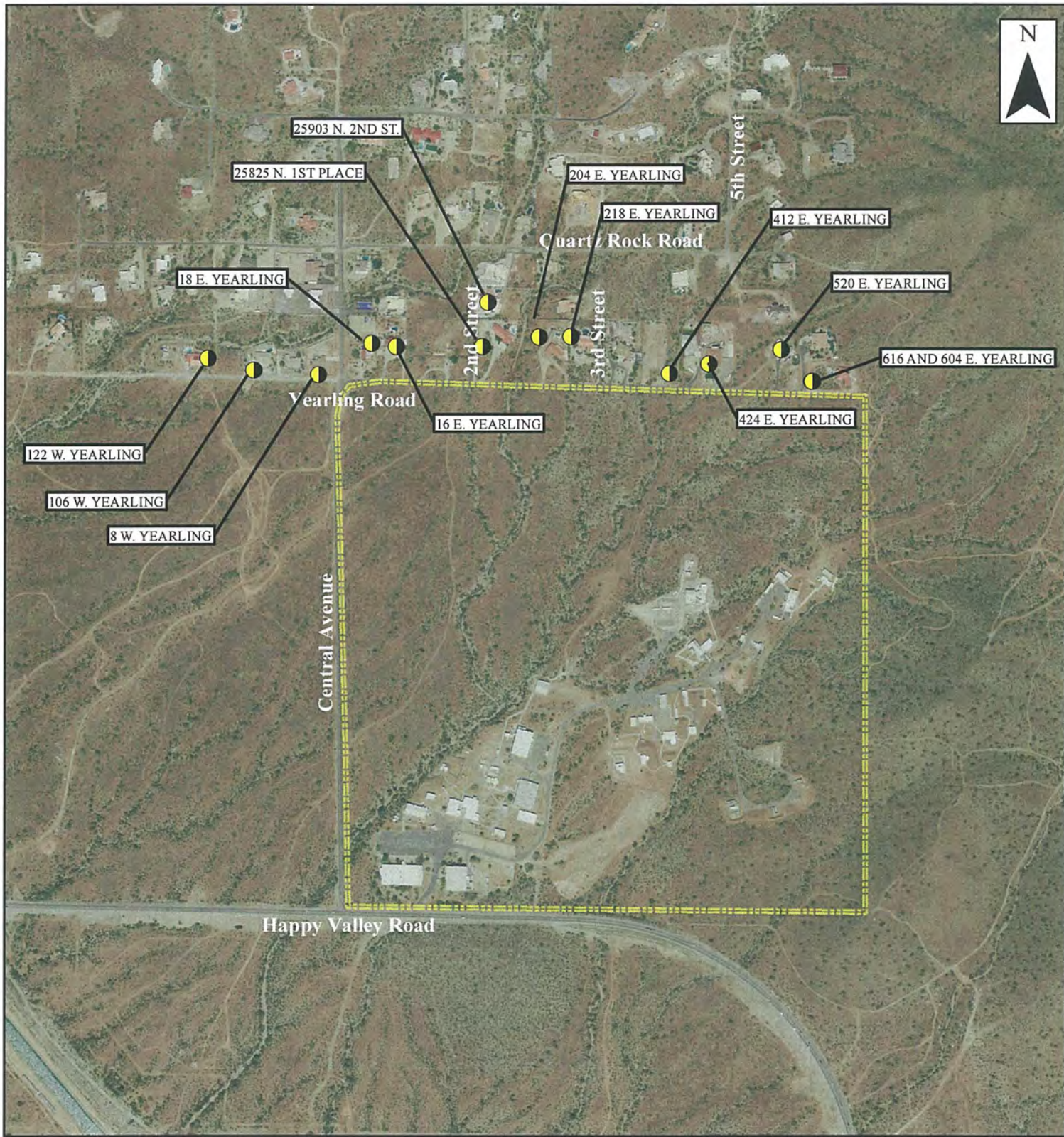
Notes:
 SVMW-1 is a soil vapor monitoring well installed above water level.
 PW-1 was converted to a monitor well on September 2, 2011.





UPCO Monitor Wells
 2011 Annual Monitoring Report

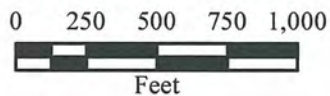
February 2012

Figure 3



Legend

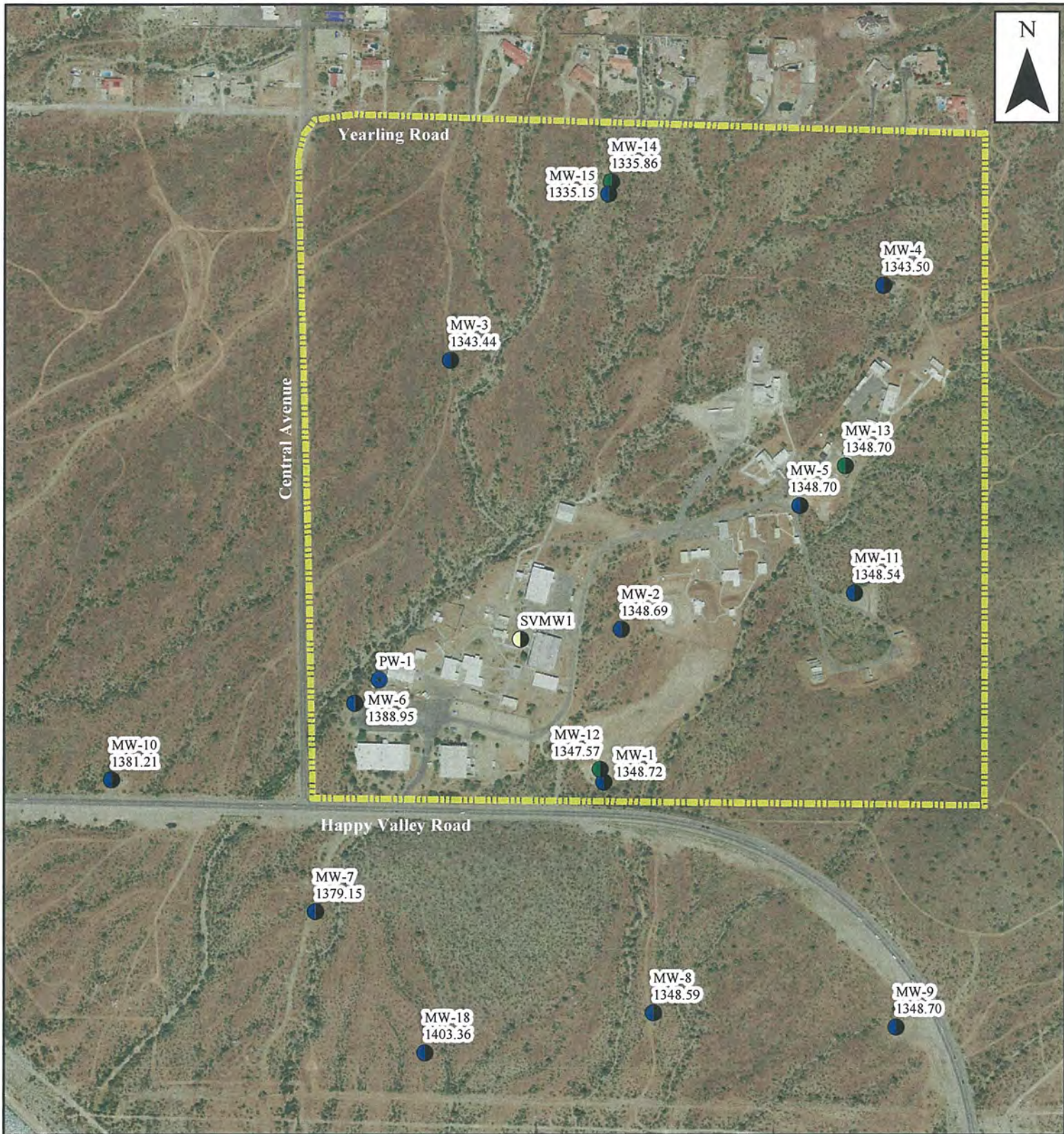
-  Private Domestic Wells
-  Lease Property Boundary



Private Wells
2011 Annual Monitoring Report

February 2012

Figure 4

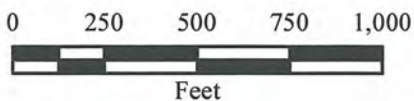


Legend

- Deep Monitor Well
- Monitor Well
- Former Production Well
- Soil Vapor Monitor Well

MW-1 / 1348.72 Well ID / Groundwater Elevation (ft amsl)

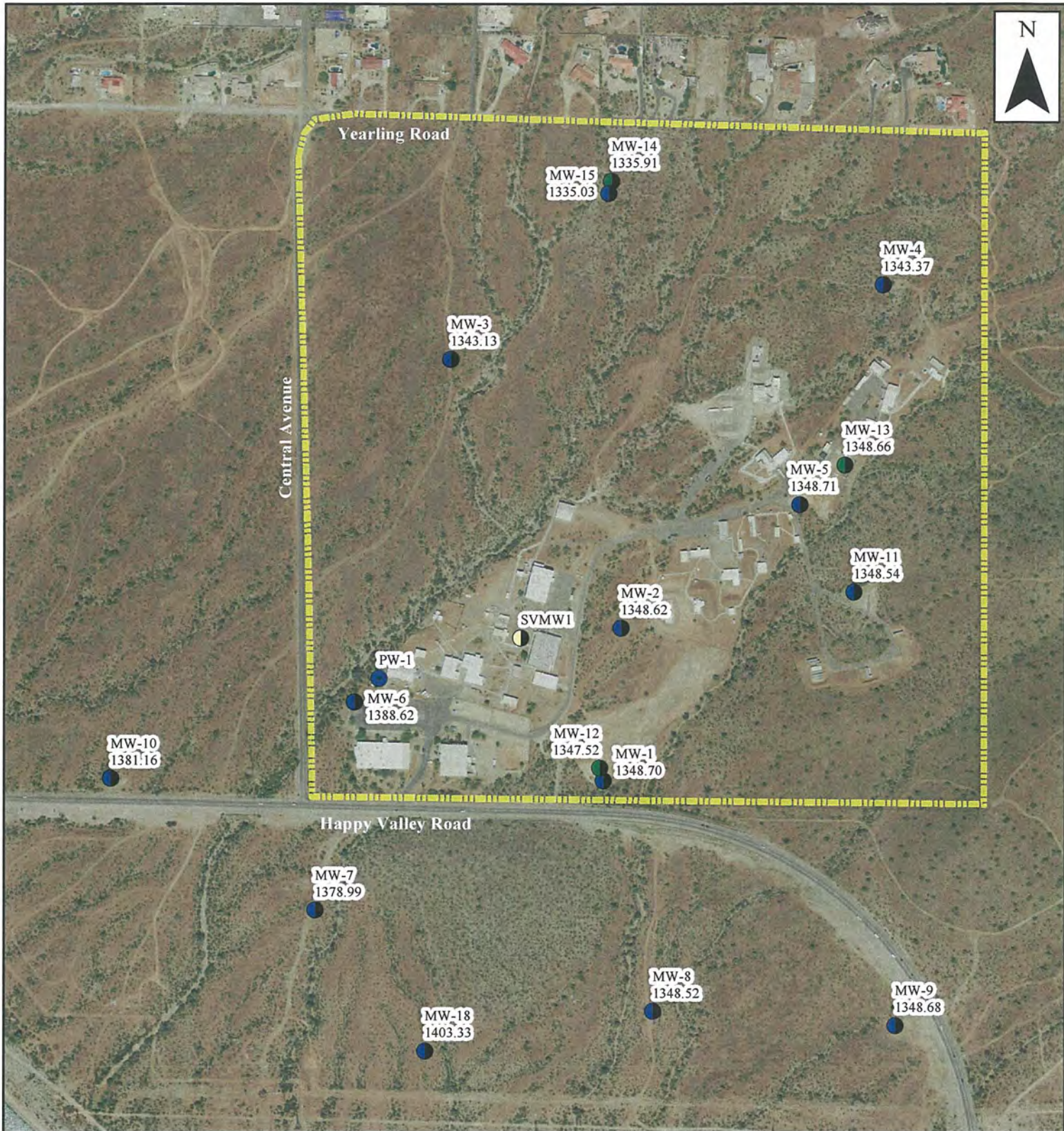
Lease Property Boundary



Groundwater Elevation
February 23, 2011
2011 Annual Monitoring Report

February 2012

Figure 5

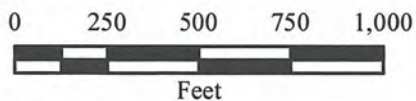


Legend

- Deep Monitor Well
- Monitor Well
- Former Production Well
- Soil Vapor Monitor Well

MW-1 / 1348.70 } Well ID / Groundwater Elevation (ft amsl)

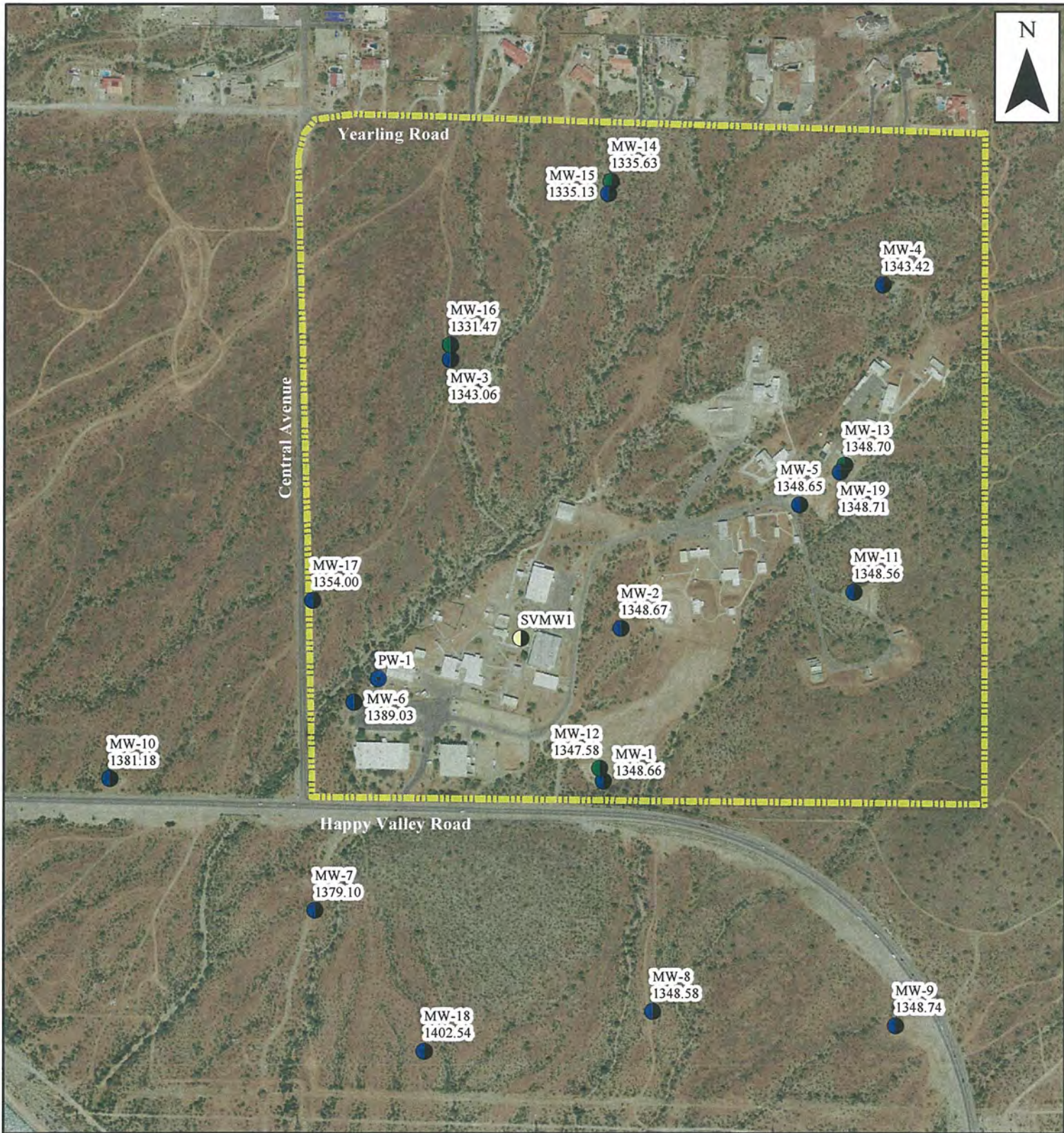
Lease Property Boundary



Groundwater Elevation
 March 22, 2011
 2011 Annual Monitoring Report

February 2012

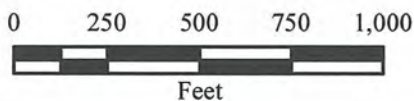
Figure 6



Legend

- Deep Monitor Well
- Monitor Well
- Former Production Well
- Soil Vapor Monitor Well
- Lease Property Boundary

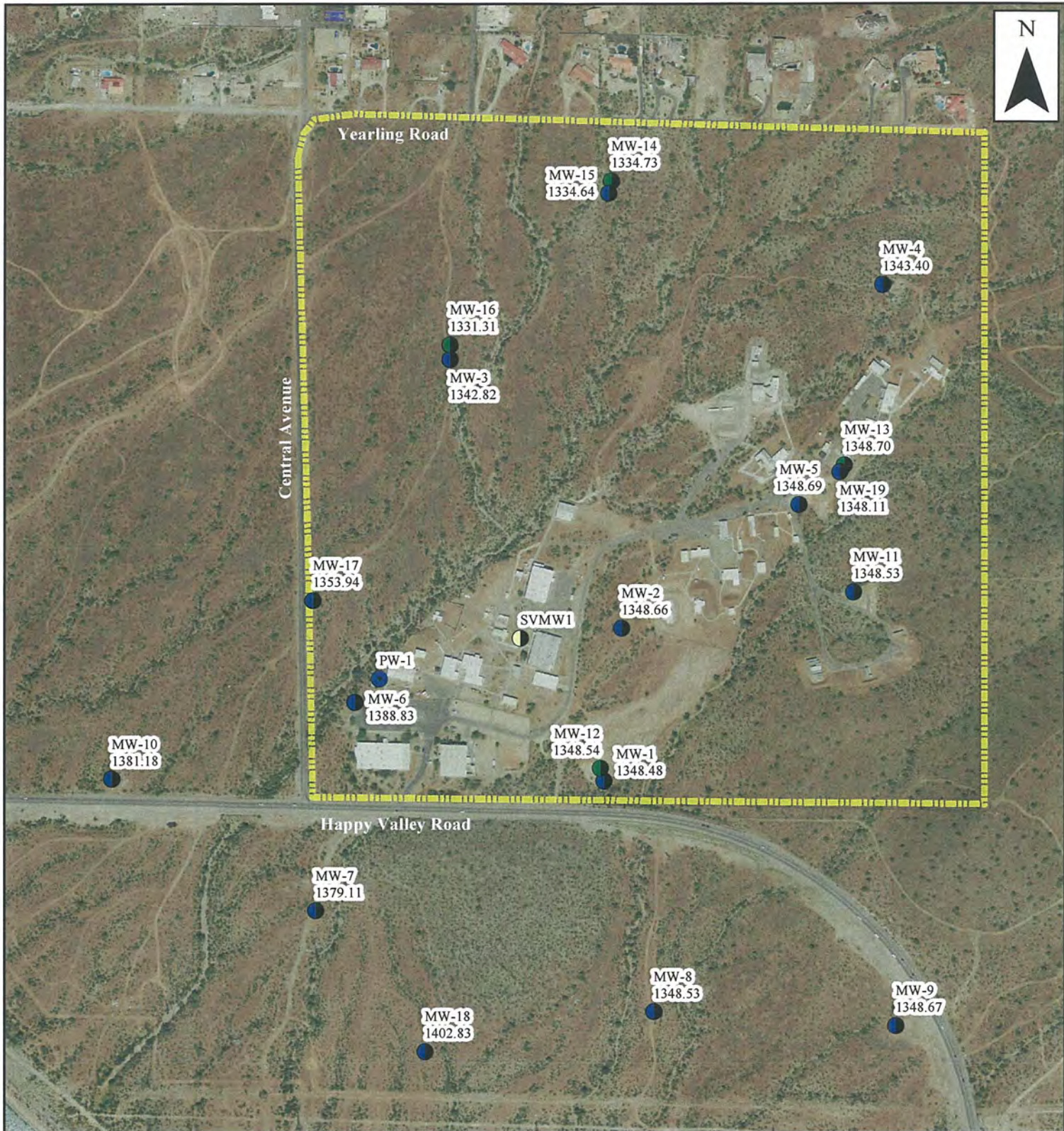
MW-1 / 1348.66 } Well ID
} Groundwater Elevation (ft amsl)



Groundwater Elevation
 April 25-26, 2011
 2011 Annual Monitoring Report

February 2012

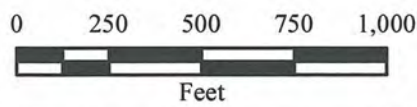
Figure 7



Legend

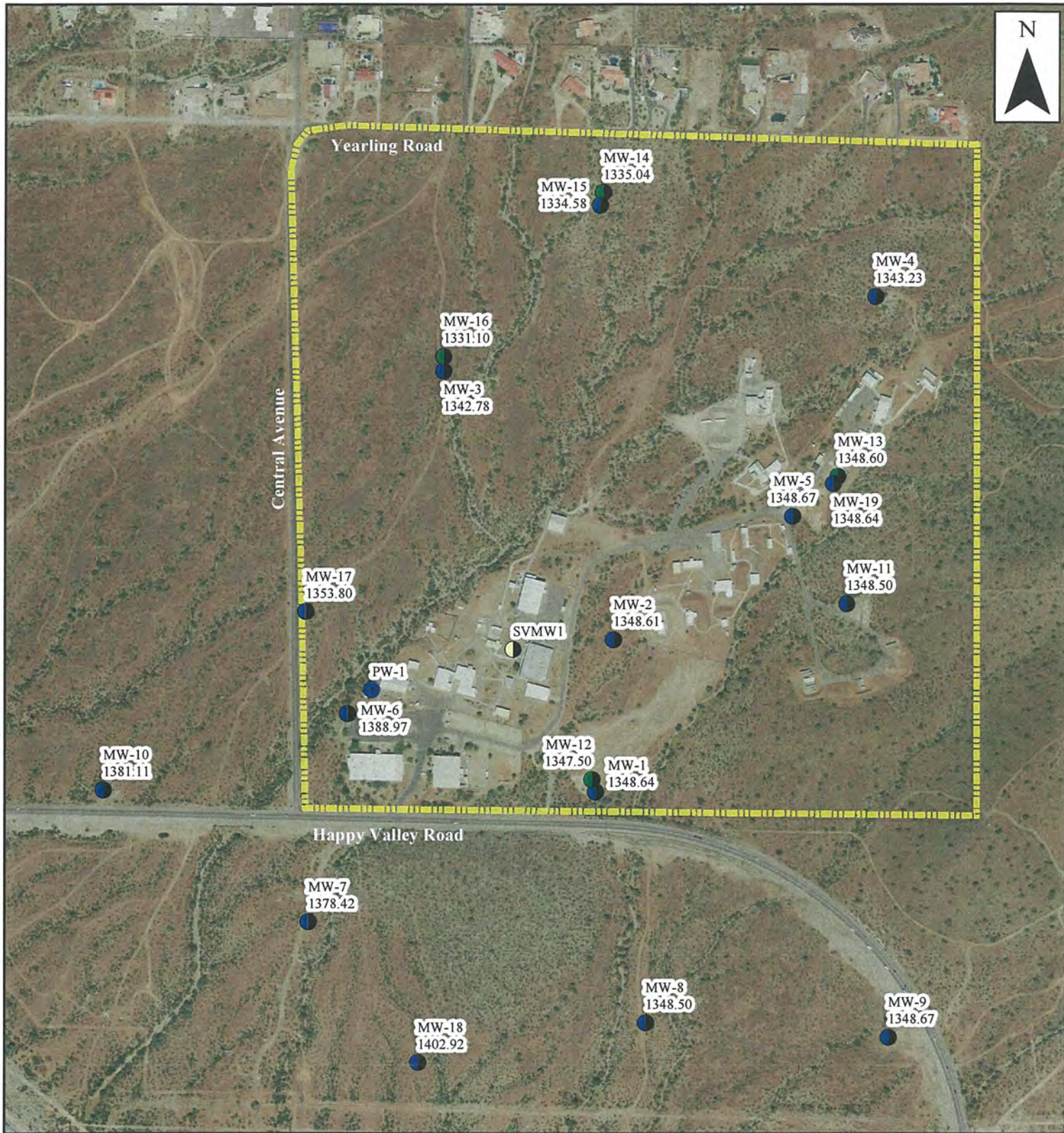
- Deep Monitor Well
- Monitor Well
- Former Production Well
- Soil Vapor Monitor Well
- ▭ Lease Property Boundary

MW-1 / 1348.48 Well ID / Groundwater Elevation (ft amsl)



Groundwater Elevation
 May 27, 2011
 2011 Annual Monitoring Report

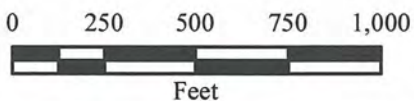
Aerial Photo copyright Landiscor, Inc. 2008 All rights reserved
 \\phoenix\Projects\3994003\GIS\Projects_MXD\Annual_Groundwater_Report\2011 report\Figure 8.mxd



Legend

- Deep Monitor Well
- Monitor Well
- Former Production Well
- Soil Vapor Monitor Well
- Lease Property Boundary

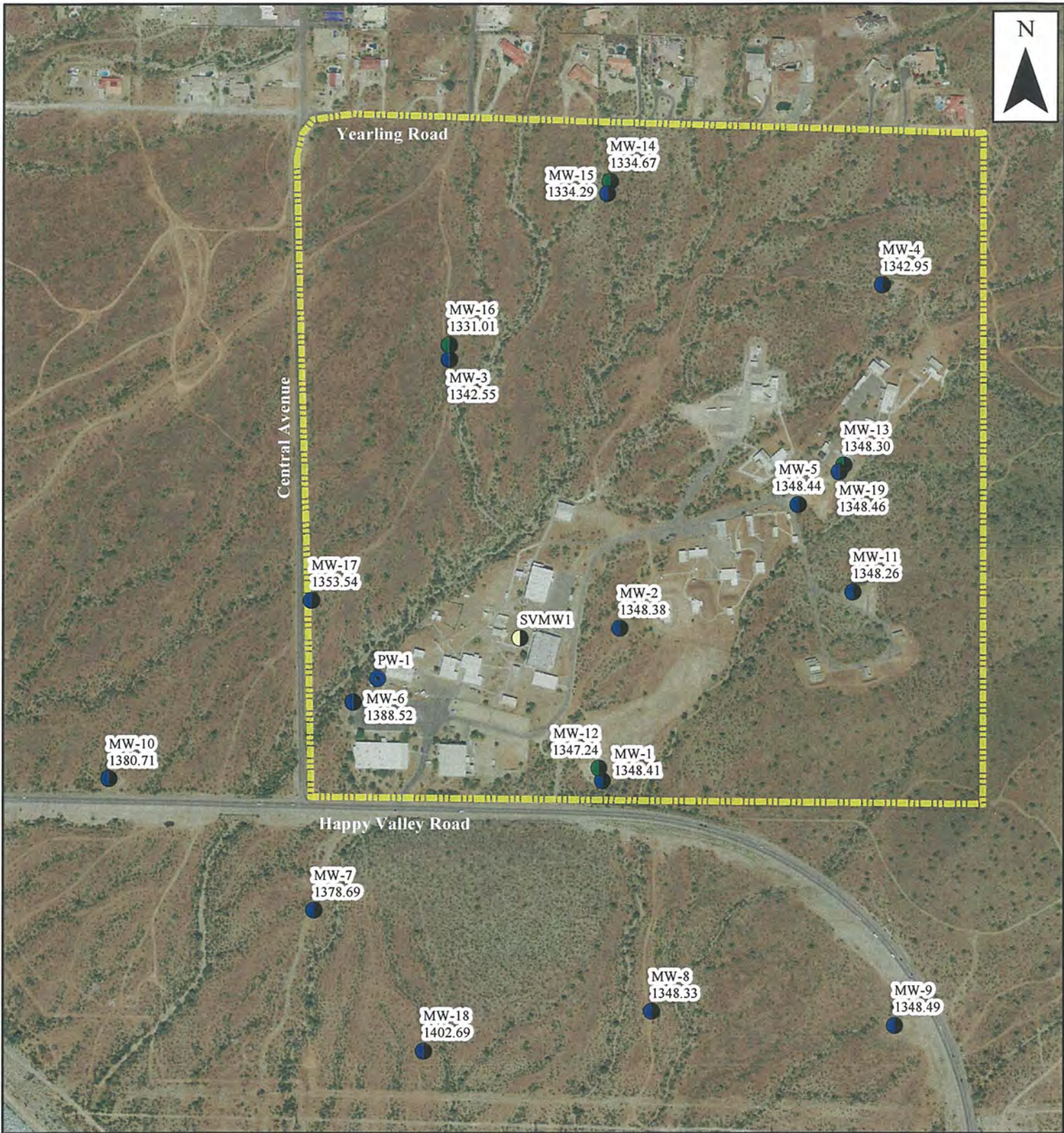
MW-1 / 1348.64 Well ID / Groundwater Elevation (ft amsl)



Groundwater Elevation
June 30, 2011
2011 Annual Monitoring Report

February 2012

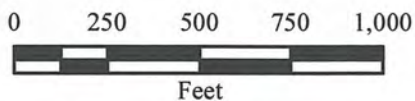
Figure 9



Legend

- Deep Monitor Well
- Monitor Well
- Former Production Well
- Soil Vapor Monitor Well
- Lease Property Boundary

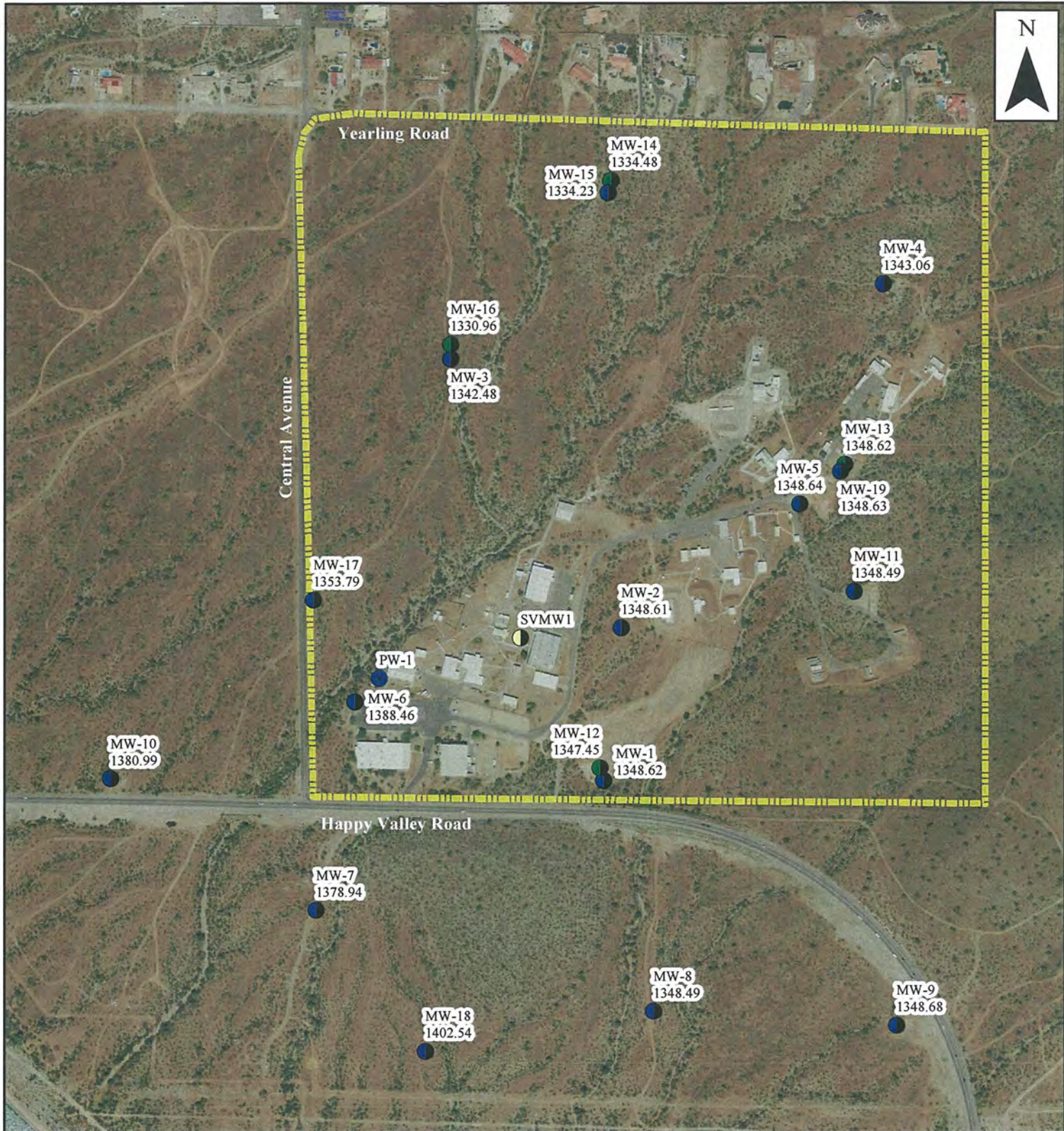
MW-1 / 1348.41 / Well ID / Groundwater Elevation (ft amsl)



Groundwater Elevation
 July 25, 2011
 2011 Annual Monitoring Report

February 2012

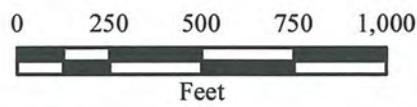
Figure 10



Legend

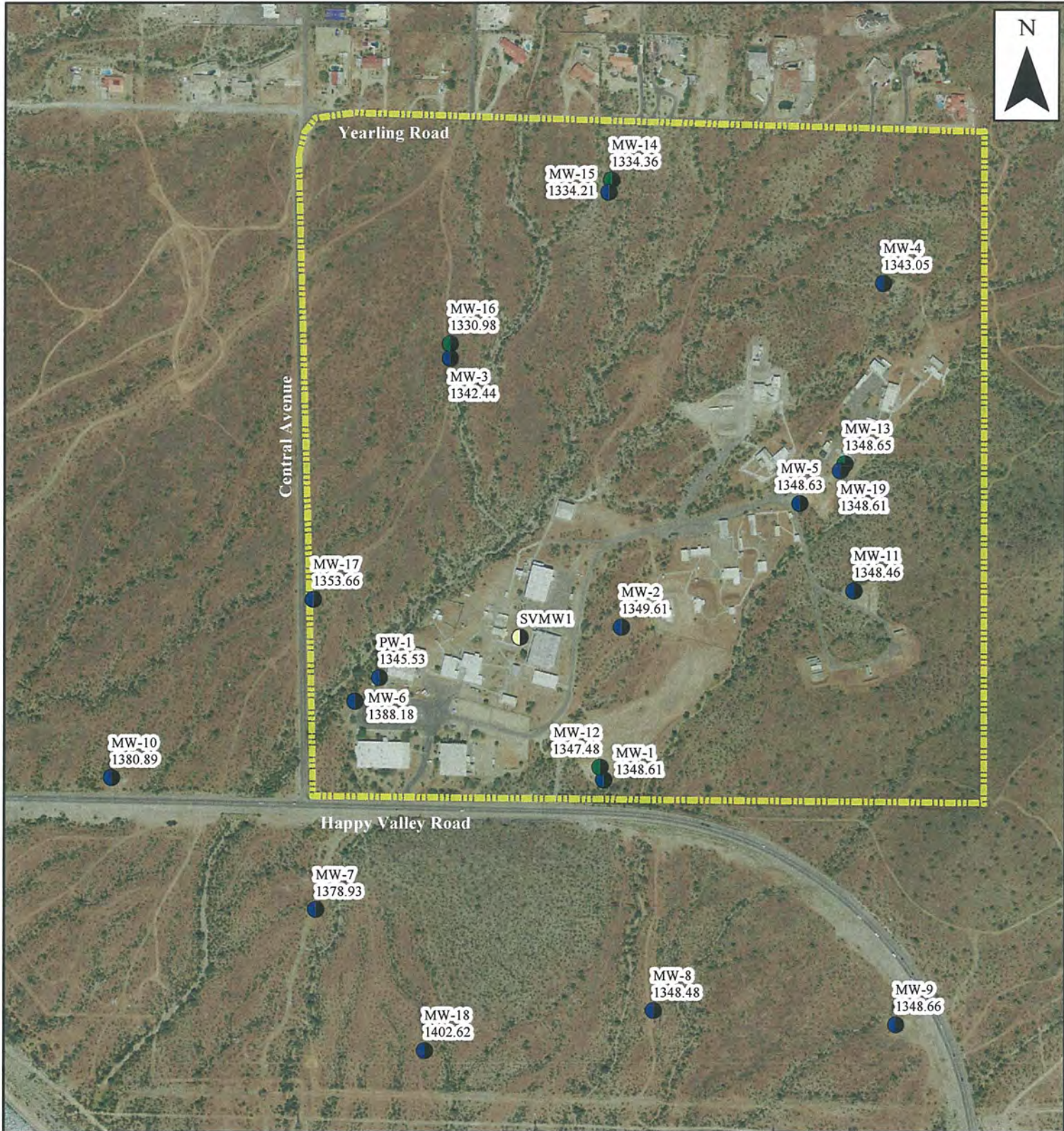
- Deep Monitor Well
- Monitor Well
- Former Production Well
- Soil Vapor Monitor Well
- Lease Property Boundary

MW-1 / Well ID
 1348.62 / Groundwater Elevation (ft amsl)



Groundwater Elevation
 September 2, 2011
 2011 Annual Monitoring Report

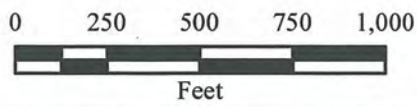
Aerial Photo copyright Landiscor, Inc. 2008 All rights reserved
 \\phoenix\Projects\3994003\GIS\Projects_MXD\Annual_Groundwater_Report\2011 report\Figure 11.mxd



Legend

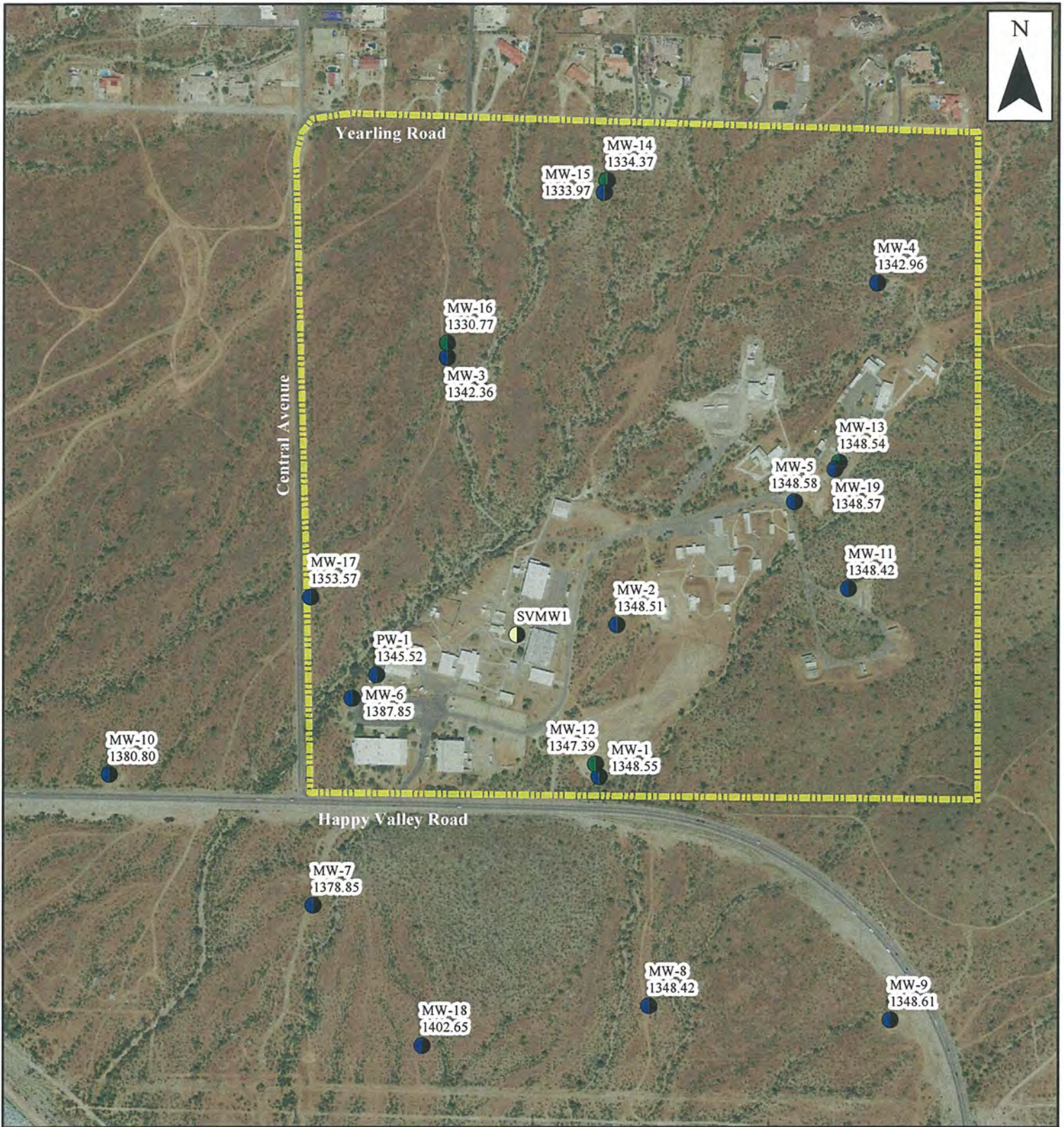
- Deep Monitor Well
- Monitor Well
- Soil Vapor Monitor Well
- ▭ Lease Property Boundary

MW-1 / 1348.61 Well ID / Groundwater Elevation (ft amsl)



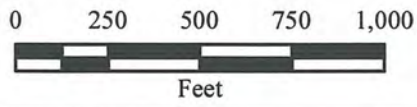
Groundwater Elevation
September 27, 2011
2011 Annual Monitoring Report

Aerial Photo copyright Landiscor, Inc. 2008 All rights reserved
\\phoenix\Projects\3994003\GIS\Projects_MXD\Annual_Groundwater_Report\2011 report\Figure 12.mxd



Legend

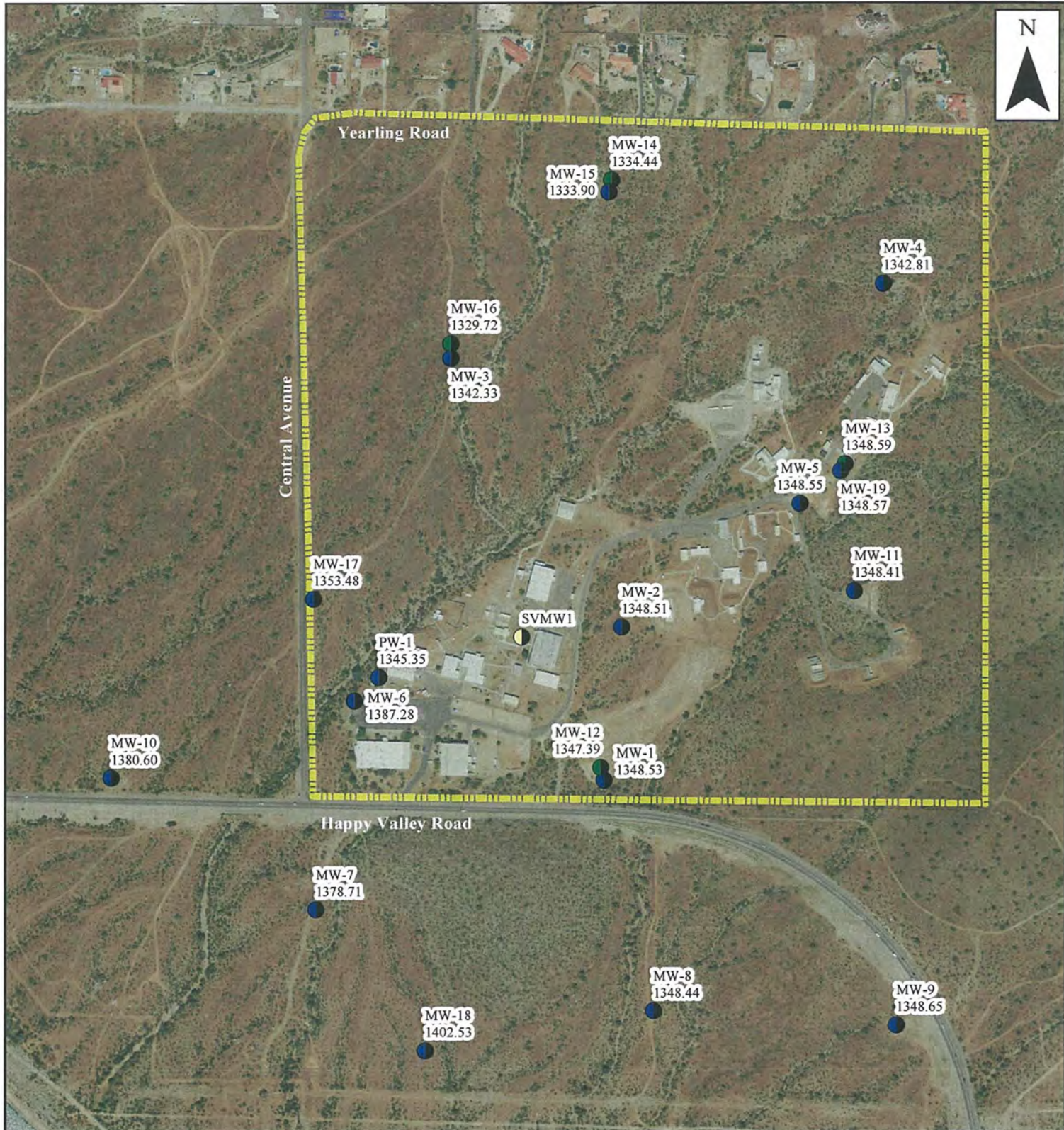
- Deep Monitor Well
- Monitor Well
- Soil Vapor Monitor Well
- Lease Property Boundary
- MW-1 / 1348.55 } Well ID / Groundwater Elevation (ft amsl)



Groundwater Elevation
 October 24, 2011
 2011 Annual Monitoring Report

February 2012

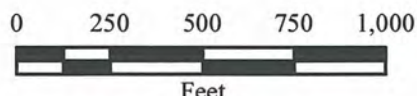
Figure 13



Legend

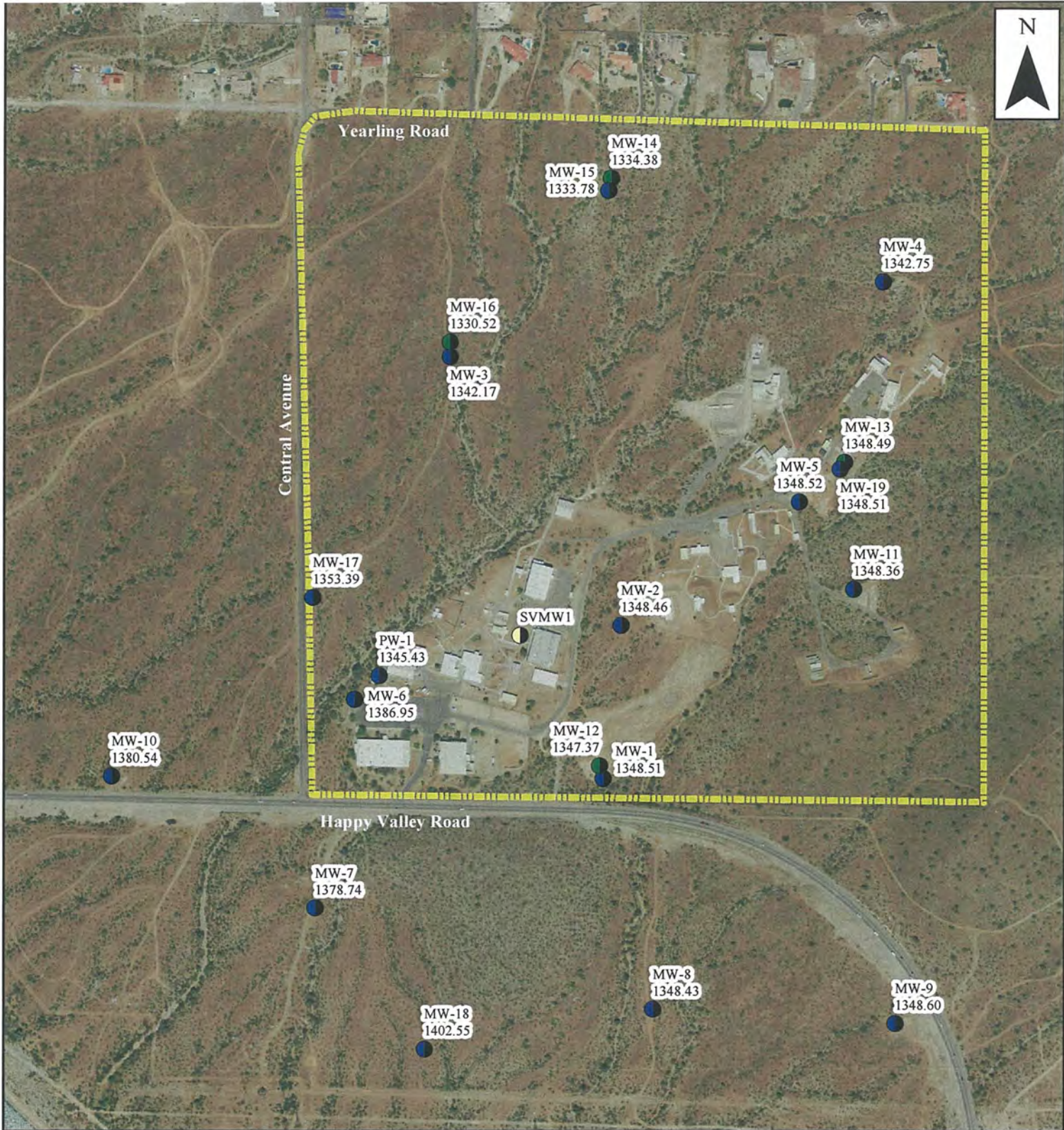
- Deep Monitor Well
- Monitor Well
- Soil Vapor Monitor Well
- ▭ Lease Property Boundary

MW-1 / Well ID
 1348.53 / Groundwater Elevation (ft amsl)



Groundwater Elevation
 November 28, 2011
 2011 Annual Monitoring Report

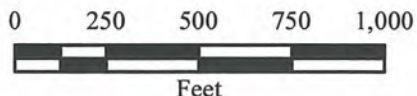
Aerial Photo copyright Landiscor, Inc. 2008 All rights reserved
 \\phoenix\Projects\3994003\GIS\Projects_MXD\Annual_Groundwater_Report\2011 report\Figure 14.mxd



Legend

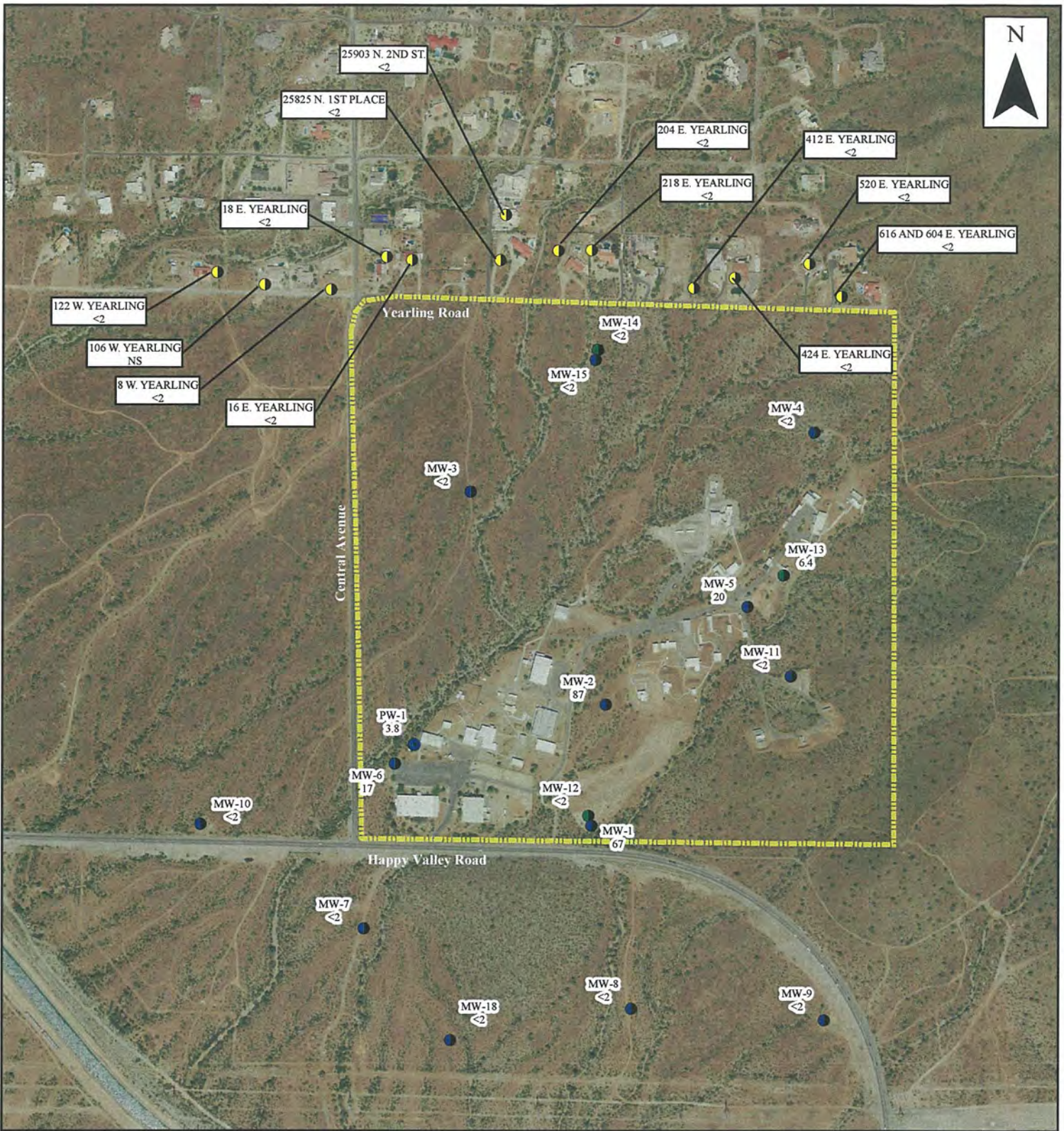
- Deep Monitor Well
- Monitor Well
- Soil Vapor Monitor Well
- Lease Property Boundary

MW-1 / Well ID
 1348.51 / Groundwater Elevation (ft amsl)



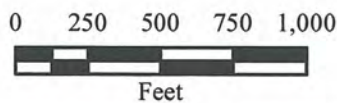
Groundwater Elevation
 December 27, 2011
 2011 Annual Monitoring Report

Aerial Photo copyright Landiscor, Inc. 2008 All rights reserved
 \\phoenix\Projects\3994003\GIS\Projects_MXD\Annual_Groundwater_Report\2011 report\Figure 15.mxd



Legend

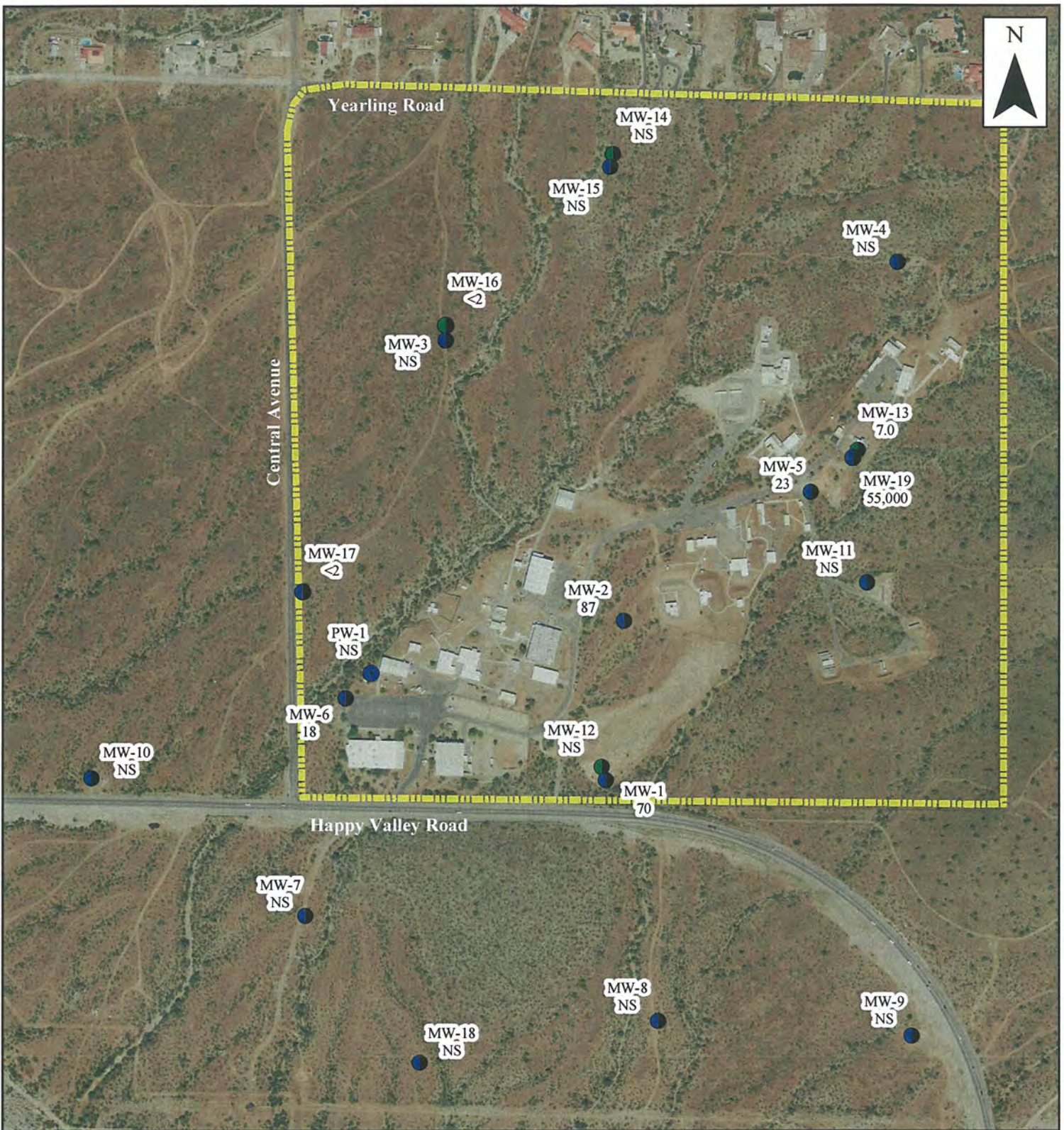
- Deep Monitor Well
- Monitor Well
- Former Production Well
- Private Domestic Wells
- Lease Property Boundary
- MW-1 / 67 / Well ID
- Perchlorate Concentration (µg/L)
- NS = not sampled



First Quarter 2011
Perchlorate Concentration Map
2011 Annual Monitoring Report

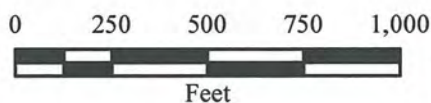
February 2012

Figure 16



Legend

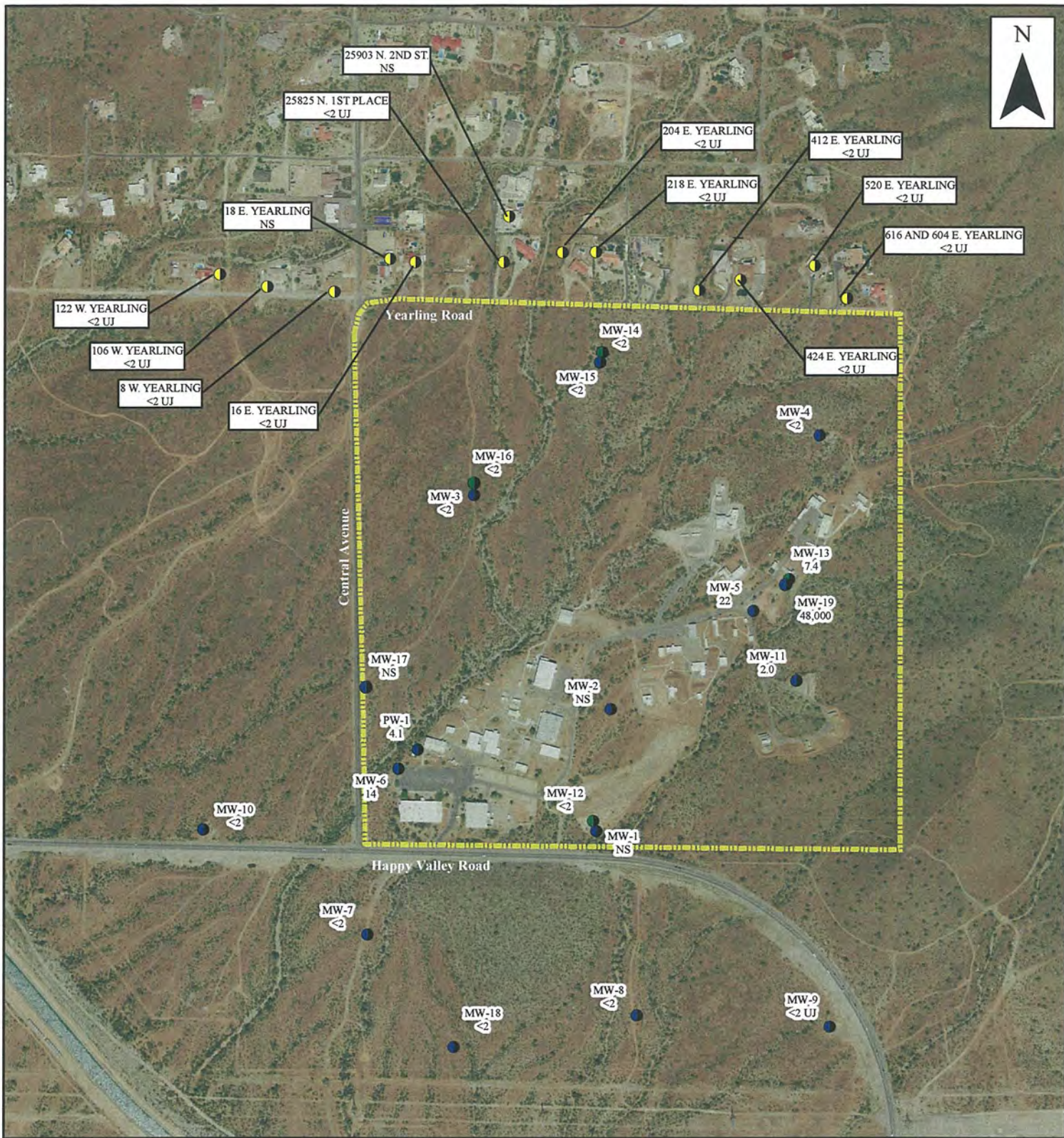
- Deep Monitor Well
- Monitor Well
- Former Production Well
- ▭ Lease Property Boundary
- MW-1 / Well ID
- 70 / Perchlorate Concentration (µg/L)
- NS = not sampled



Second Quarter 2011
Perchlorate Concentration Map
2011 Annual Monitoring Report

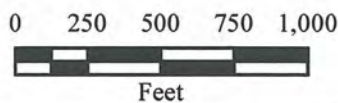
February 2012

Figure 17



Legend

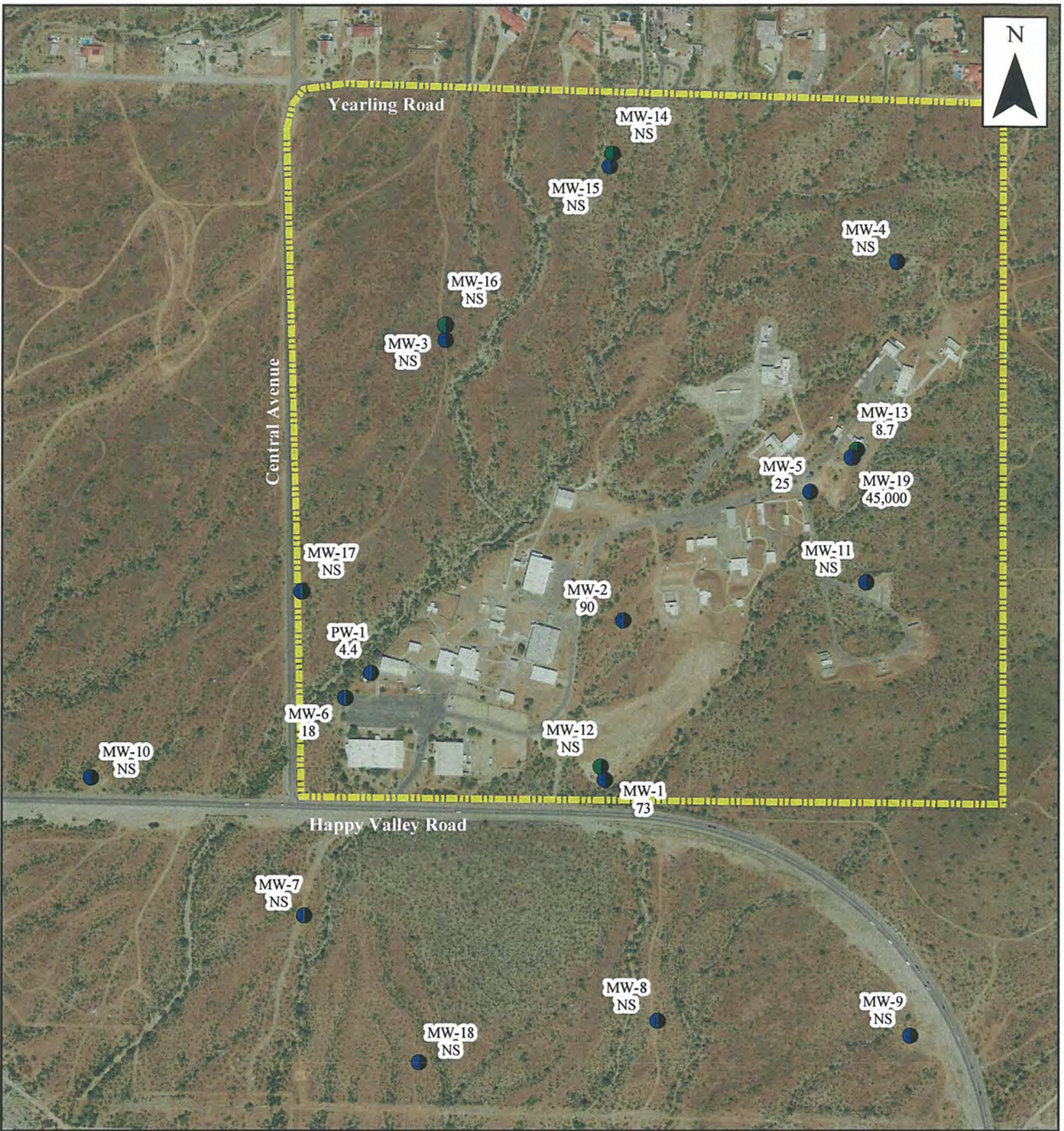
- Deep Monitor Well
- Monitor Well
- ▭ Lease Property Boundary
- MW-5 / 22 Well ID
- Perchlorate Concentration (µg/L)
- NS = not sampled



Third Quarter 2011
Perchlorate Concentration Map
2011 Annual Monitoring Report

February 2012

Figure 18

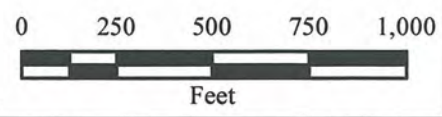


Legend

- Deep Monitor Well
- Monitor Well
- ▭ Lease Property Boundary
- MW-1 / 73 Well ID / Perchlorate Concentration (µg/L)
- NS = not sampled



Fourth Quarter 2011
 Perchlorate Concentration Map
 2011 Annual Monitoring Report



February 2012

Figure 19

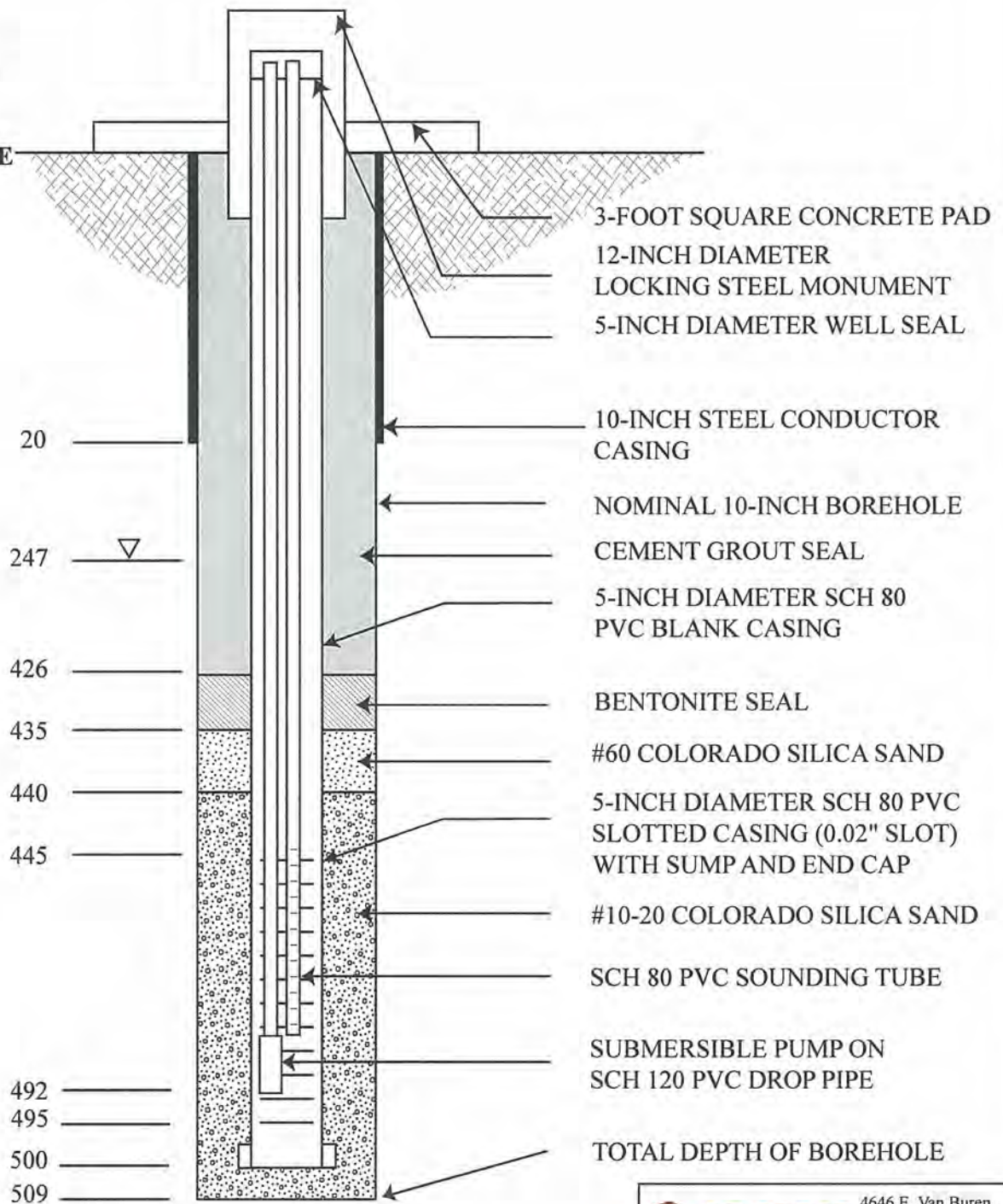
Appendix A

Well Construction Diagrams



DEPTH
(FT BGS)

SURFACE



NOT TO SCALE

 **ARCADIS** 4646 E. Van Buren
St., Suite 400
Phoenix, AZ 85008

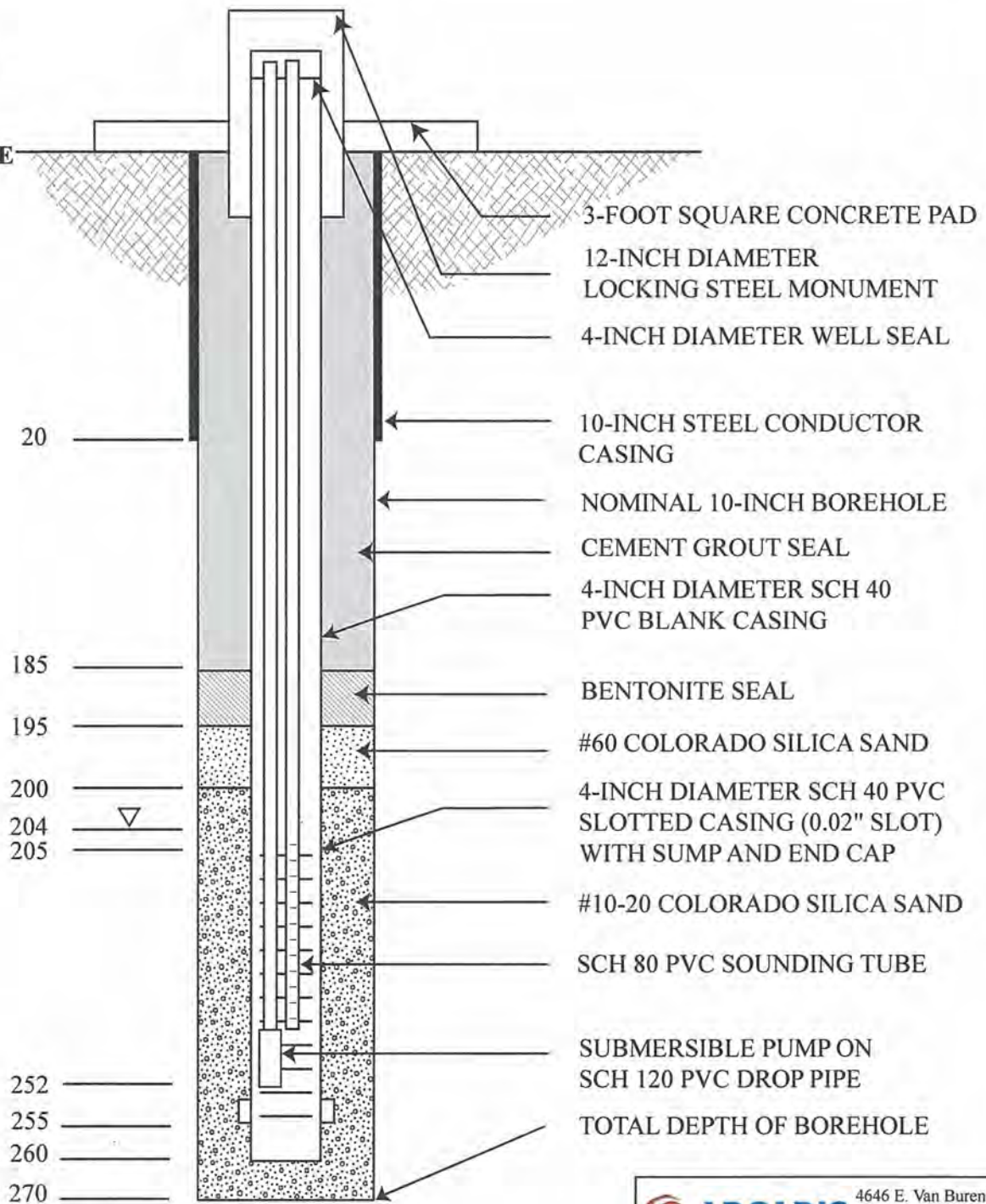
MW-16
As-Built Construction Diagram
2011 Annual Monitoring Report

February 2012

Figure A-1

DEPTH
(FT BGS)

SURFACE



NOT TO SCALE

 4646 E. Van Buren
St., Suite 400
Phoenix, AZ 85008

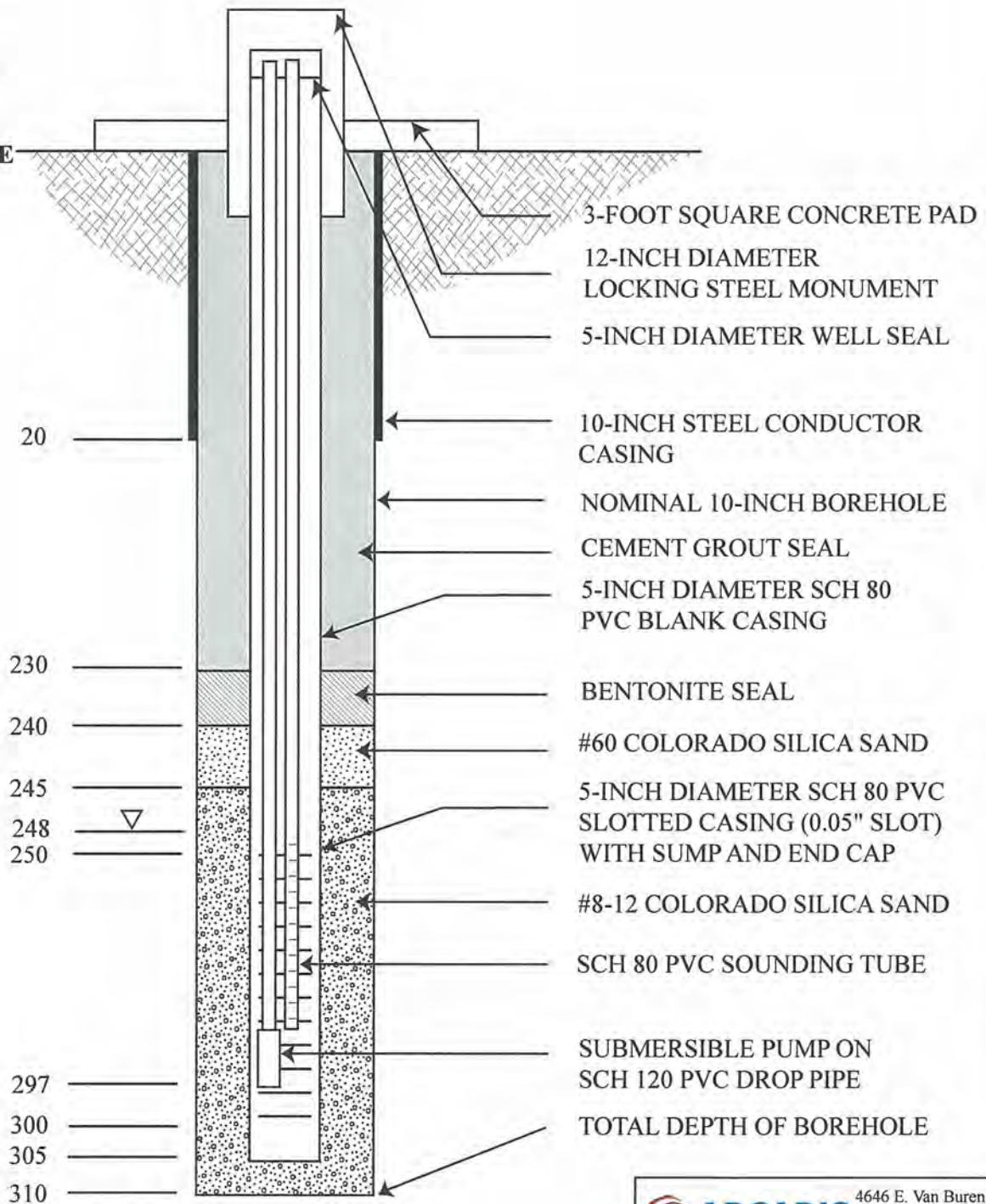
MW-17
As-Built Construction Diagram
2011 Annual Monitoring Report

February 2012

Figure A-2

DEPTH
(FT BGS)

SURFACE



NOT TO SCALE

 4646 E. Van Buren St.
Suite 400
Phoenix, AZ 85008

MW-19
As-Built Construction Diagram
2011 Annual Monitoring Report

February 2012

Figure A-3

Universal Propulsion Company
2011 Annual Monitoring Report

Appendix B
IDW Documents





LIQUID ENVIRONMENTAL SOLUTIONS

NON-HAZARDOUS WASTE MANIFEST

86714

Profile Number
195699

Generator Name	Name: <u>WPC</u> Phone: <u>(602) 243-7338</u>	Generator Address	Address: <u>2401 N Central Ave</u> City: <u>Phoenix</u> State: <u>AZ</u> Zip: <u>85027</u>
-----------------------	--	--------------------------	---

Check with your state and local regulatory agencies for manifest retention requirements. NOTE: Many regulatory agencies require records to be kept on-site and available to review for up to 3 years.

Waste Type	<input type="checkbox"/> Grease Trap <input type="checkbox"/> Grit Trap <input type="checkbox"/> Septic/Chemical Toilet <input checked="" type="checkbox"/> Non-Industrial <input type="checkbox"/> Industrial <input type="checkbox"/> Special <input type="checkbox"/> Used Cooking Oil <input type="checkbox"/> Recyclable Used Oil
-------------------	---

I certify that the waste material removed from the above premises does not contain any radioactive, flammable, explosive, toxic or hazardous material ("Excluded Waste"). The term "hazardous material" is defined as any one or more pollutant, toxic substance, hazardous substance, solvent or oil as defined in or pursuant to the Resource Conservation and Recovery Act, the Comprehensive Environmental Response Compensation and Liability Act, the Federal Clean Water Act, or any other federal, state or local environmental law, regulation, ordinance, or rule, whether existing as of the date of this agreement or subsequently enacted. I also acknowledge that the Generator shall be responsible for any costs incurred by the Transporter or Disposal Facility in handling or proper disposal of any hazardous waste and that the Generator expressly agrees to defend, indemnify and hold harmless the Transporter from and against any and all damages, costs, fines and liabilities resulting from or arising out of any such hazardous waste.

Generator Rep. Name (please print) <u>Scott Miller</u>	Generator Rep. Signature <u>[Signature]</u>
--	---

Transporter Name	Name: <u>MPE</u> Phone: <u>(602) 206-2333</u>	Transporter Address	Address: <u>205 S. 2nd Ave</u> City: <u>Phoenix</u> State: <u>AZ</u> Zip: <u>85003</u>
-------------------------	--	----------------------------	---

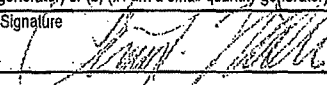
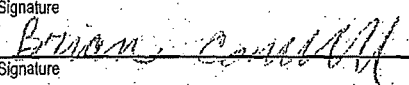
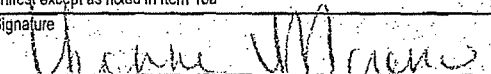
Waste Removed (Gallons) <u>4000</u>	Date <u>3-3-11</u>	Time <u>9:30 am</u>
---	------------------------------	-------------------------------

I certify that the information above is accurate, and that only the waste certified for removal by the Generator is contained in the servicing vehicle. I am aware that falsification of this manifest may result in prosecution.

Driver Name (please print) <u>Scott Miller</u>	Driver Signature <u>[Signature]</u>
--	---

Disposal Facility	Liquid Environmental Solutions of Arizona	Address	5159 West Van Buren Street Phoenix, AZ 85043
Waste Received (Gallons)		Date	Time
Facility Rep. Name (please print)		Facility Rep. Signature	

WHITE - Generator Final Copy YELLOW - Liquid Environmental Solutions Copy GOLDENROD - Transporter Copy PINK - Generator 1st Copy

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number AZD980814479	2. Page 1 of 1	3. Emergency Response Phone 800-833-7862	4. Manifest Tracking Number 003953414 JJK				
		5. Generator's Name and Mailing Address Universal Propulsion Company 25401 North Central Ave. Phoenix AZ 85085					Generator's Site Address (if different than mailing address)		
6. Transporter 1 Company Name MP Environmental Services		U.S. EPA ID Number CAT000924247			7. Transporter 2 Company Name U.S. EPA ID Number				
8. Designated Facility Name and Site Address Yonita 1975 Motor Ave. 1704 W. First St. AZ 85302 CA 91702		Facility's Phone: 628 334-5117			U.S. EPA ID Number CAD008302909				
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		Non-RCRA Hazardous Waste Liquid (Perchlorate Impacted Water)	No.	Type					
			001	TT	1,000	g	134		
	2.								
	3.								
4.									
14. Special Handling Instructions and Additional Information 9 Frails # 012984 MPE Job #11049 Wear Proper Personal Protective Gear When Handling									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Offoror's Printed/Typed Name Agent For UFCO: Craig L. Miller				Signature 		Month Day Year 05 18 11			
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							Transporter signature (for exports only): _____		
TRANSPORTER INT'L	17. Transporter Acknowledgment of Receipt of Materials								
	Transporter 1 Printed/Typed Name BRIAN CANNON				Signature 		Month Day Year 05 18 11		
	Transporter 2 Printed/Typed Name				Signature		Month Day Year		
DESIGNATED FACILITY	18. Discrepancy								
	18a. Discrepancy Indication Space <input checked="" type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection								
	Actual Amount Received 1155 Gals.							Manifest Reference Number: _____	
	18b. Alternate Facility (or Generator)					U.S. EPA ID Number			
Facility's Phone: _____									
18c. Signature of Alternate Facility (or Generator)							Month Day Year		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1. H039		2.		3.		4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a									
Printed/Typed Name Vivian Moreno				Signature 		Month Day Year 06 17 11			

31 JUN 17 11:51:03



PLEASE CALL LANDFILL 24 HRS IN ADVANCE WITH SHIPPING NOTICE.

NON - HAZARDOUS WASTE MANIFEST

FOR OFFICE USE ONLY

Customer Acct. No. _____

Ticket No. _____

GENERATOR

WM- 168690

Name Universal Production Co.

Generating Location _____

Address 25401 N. Central Ave.

Phoenix, AZ 85085

Phone No. 623-516-3340

I.D. No. Control # 7342

PROFILE APPROVAL NO.	WASTE DESCRIPTION	QUANTITY	UNITS	UNIT
<u>UWR 101432</u>	<u>Soil</u>	<u>15</u>	<u>T</u>	D - DRUM B - BAG C - CARTON T - TONS Y - YARDS O - OTHER

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40CFR Part 261. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

Agent for UPRC: Orin L. Miller - 4/19/01 [Signature]
 AUTHORIZED AGENT'S NAME (PRINT) DATE SIGNATURE

CONTRACTOR

Name _____

Phone No. _____

Address _____

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

 AUTHORIZED AGENT'S NAME (PRINT) DATE SIGNATURE

TRANSPORTER

Name MPB

Phone No. 602-275 6233

Address 3045 S. 51st Ave

Phoenix, AZ 85043

Driver's Name JAVAS CHAKRAN 5769

Vehicle's No. B.# 5695 (MW-16)

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

4/11/2011 [Signature] 4/11/2011 [Signature]
 SHIPMENT DATE DRIVER'S SIGNATURE DELIVERY DATE DRIVER'S SIGNATURE

DISPOSAL FACILITY

- BUTTERFIELD STATION FACILITY • 40404 South 99th Avenue • Mobile, Arizona 85239 • (602) 256-0630
- NORTHWEST REGIONAL LANDFILL • 19401 West Deer Valley Road • Surprise, Arizona 85387 • (623) 584-6065
- PAINTED DESERT LANDFILL • 9001 North Porter Avenue • Joseph City, Arizona 86032 • (520) 288-3605
- GRAY WOLF LANDFILL • 23355 East Highway 169 • Mile Post 11 • Dewey, Arizona 86327 • (520) 632-0370
- LONE CACTUS LANDFILL • 21402 North 7th Street • Phoenix, Arizona 85024 • (623) 516-0244
- IRONWOOD LANDFILL • 12720 East Highway 287 • Florence, Arizona 85232 • (520) 868-8778

I hereby certify that the above material has been accepted and that information presented on this document are true and accurate.

 NAME (PRINT) DATE SIGNATURE
 ORIGINAL - WHITE DISPOSAL FACILITY - YELLOW TRANSPORTER - PINK GENERATOR - GOLDENROD



PLEASE CALL LANDFILL 24 HRS IN ADVANCE WITH SHIPPING NOTICE.

NON - HAZARDOUS WASTE MANIFEST

FOR OFFICE USE ONLY

Customer Acct. No. _____

Ticket No. _____

GENERATOR

WM- 168689

Name Universal Population Co.

Generating Location _____

Address 25401 N. Central Ave.

Phoenix, AZ 85085

Phone No. 602-516-3340

I.D. No. Control # 7347

PROFILE APPROVAL NO.	WASTE DESCRIPTION	QUANTITY	UNITS
UWR 10143212	Sol	15	T

- UNIT
 D - DRUM
 B - BAG
 C - CARTON
 T - TONS
 Y - YARDS
 O - OTHER

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40CFR Part 261: That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

Agent for UPR: Vincent Millos 4/19/2011 [Signature]
 AUTHORIZED AGENT'S NAME (PRINT) DATE SIGNATURE

CONTRACTOR

Name _____

Phone No. _____

Address _____

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40CFR Part 261 or any applicable state law: That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

AUTHORIZED AGENT'S NAME (PRINT)

DATE

SIGNATURE

TRANSPORTER

Name MPB

Phone No. 602-278-6233

Address 3505 S. Skt Ave.

Phoenix, AZ 85043

Driver's Name [Signature]

Vehicle's No. Bin # 5671 - (MW-16)

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40CFR Part 261 or any applicable state law: That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

4/21/2011 [Signature] 4/21/2011 [Signature]
 SHIPMENT DATE DRIVER'S SIGNATURE DELIVERY DATE DRIVER'S SIGNATURE

DISPOSAL FACILITY

- BUTTERFIELD STATION FACILITY • 4040 South 99th Avenue • Mobile, Arizona 85239 • (602) 256-0630
- NORTHWEST REGIONAL LANDFILL • 19401 West Deer Valley Road • Surprise, Arizona 85387 • (623) 584-6065
- PAINTED DESERT LANDFILL • 9001 North Porter Avenue • Joseph City, Arizona 86032 • (520) 288-3605
- GRAY WOLF LANDFILL • 23355 East Highway 169 • Mile Post 11 • Dewey, Arizona 86327 • (520) 632-0370
- LONE CACTUS LANDFILL • 21402 North 7th Street • Phoenix, Arizona 85024 • (623) 516-0244
- IRONWOOD LANDFILL • 12720 East Highway 287 • Florence, Arizona 85232 • (520) 868-8778

I hereby certify that the above material has been accepted and that information presented on this document are true and accurate.

NAME (PRINT)

DATE

SIGNATURE

ORIGINAL - WHITE

DISPOSAL FACILITY - YELLOW

TRANSPORTER - PINK

GENERATOR - GOLDENROD



PLEASE CALL LANDFILL 24 HRS IN ADVANCE WITH SHIPPING NOTICE.

NON - HAZARDOUS WASTE MANIFEST

FOR OFFICE USE ONLY
Customer Acct. No.
Ticket No.

GENERATOR

WM- 168688

Name Universal Products Co.
Address 25401 N. Central Ave.
Phone No. 123-516-3340
Generating Location
I.D. No. Control # 7342

Table with 4 columns: PROFILE APPROVAL NO, WASTE DESCRIPTION, QUANTITY, UNITS. Row 1: 4WR, 10143212, 5.1, T

UNIT
D - DRUM
B - BAG
C - CARTON
T - TONS
Y - YARDS
O - OTHER

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40CFR Part 261: That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

Agent for UPR: Craig Miller 4/9/11
AUTHORIZED AGENT'S NAME (PRINT) DATE SIGNATURE

CONTRACTOR

Name Phone No.

Address

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40CFR Part 261 or any applicable state law: That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

AUTHORIZED AGENT'S NAME (PRINT) DATE SIGNATURE

TRANSPORTER

Name MPR Phone No. 607-278-6233

Address 3045 S 51st Ave Phoenix, AZ 85043
Driver's Name JIM CHAIKIN
Vehicle's No. B.N.# 5619-(MW-16)

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40CFR Part 261 or any applicable state law: That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

4/21/11 SHIPMENT DATE DRIVER'S SIGNATURE DELIVERY DATE DRIVER'S SIGNATURE

DISPOSAL FACILITY

- Butterfield Station Facility, Northwest Regional Landfill, Painted Desert Landfill, Gray Wolf Landfill, Lone Cactus Landfill, Ironwood Landfill

I hereby certify that the above material has been accepted and that information presented on this document are true and accurate.

NAME (PRINT) DATE SIGNATURE
ORIGINAL - WHITE DISPOSAL FACILITY - YELLOW TRANSPORTER - PINK GENERATOR - GOLDENROD



PLEASE CALL LANDFILL 24 HRS IN ADVANCE WITH SHIPPING NOTICE.

NON - HAZARDOUS WASTE MANIFEST

FOR OFFICE USE ONLY

Customer Acct. No. _____

Ticket No. _____

GENERATOR

WM- 168687

Name Universal Resolutions Co.

Generating Location _____

Address 25401 N. Central Ave.

Phoenix, AZ 85085

Phone No. 623-516-3340

I.D. No. Control # 7342

PROFILE APPROVAL NO.	WASTE DESCRIPTION	QUANTITY	UNITS	UNIT
RWR 101432	Sol	10	T	D - DRUM
				B - BAG
				C - CARTON
				T - TONS
				Y - YARDS
				O - OTHER

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40CFR Part 261; That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

Agent for URCO Charles Miller 4/19/11 [Signature]
 AUTHORIZED AGENT'S NAME (PRINT) DATE SIGNATURE

CONTRACTOR

Name _____ Phone No. _____

Address _____

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40CFR Part 261 or any applicable state law; That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

 AUTHORIZED AGENT'S NAME (PRINT) DATE SIGNATURE

TRANSPORTER

Name MPE Phone No. 602-278-6233

Address 3045 S 31st Ave. Driver's Name Randy Hartman

Phoenix, AZ 85043 Vehicle's No. B-4 5769-(MD-17)

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40CFR Part 261 or any applicable state law; That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

4/21/11 [Signature] 4/21/11 [Signature]
 SHIPMENT DATE DRIVER'S SIGNATURE DELIVERY DATE DRIVER'S SIGNATURE

DISPOSAL FACILITY

- BUTTERFIELD STATION FACILITY • 4040 South 99th Avenue • Mobile, Arizona 85239 • (602) 256-0630
- NORTHWEST REGIONAL LANDFILL • 19401 West Deer Valley Road • Surprise, Arizona 85387 • (623) 584-6065
- PAINTED DESERT LANDFILL • 9001 North Porter Avenue • Joseph City, Arizona 86032 • (520) 288-3605
- GRAY WOLF LANDFILL • 23355 East Highway 169 • Mile Post 11 • Dewey, Arizona 86327 • (520) 632-0370
- LONE CACTUS LANDFILL • 21402 North 7th Street • Phoenix, Arizona 85024 • (623) 516-0244
- IRONWOOD LANDFILL • 12720 East Highway 287 • Florence, Arizona 85232 • (520) 868-8778
- _____

I hereby certify that the above material has been accepted and that information presented on this document are true and accurate.

 NAME (PRINT) DATE SIGNATURE
 ORIGINAL - WHITE DISPOSAL FACILITY - YELLOW TRANSPORTER - PINK GENERATOR - GOLDENROD



PLEASE CALL LANDFILL 24 HRS IN ADVANCE WITH SHIPPING NOTICE.

NON - HAZARDOUS WASTE MANIFEST

FOR OFFICE USE ONLY

Customer Acct. No. _____

Ticket No. _____

GENERATOR

WM- 168675

Name Universal

Generating Location _____

Address 3045 S 5th Ave

Phoenix AZ 85043

Phone No. 602-717-2500

I.D. No. Control # 7345

PROFILE APPROVAL NO.	WASTE DESCRIPTION	QUANTITY	UNITS
UR	1101432/12	10	T

- UNIT
 D - DRUM
 B - BAG
 C - CARTON
 T - TONS
 Y - YARDS
 O - OTHER

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40CFR Part 261; That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

Agent for UPCA AUTHORIZED AGENT'S NAME (PRINT) 4/27/2011 DATE [Signature] SIGNATURE

CONTRACTOR

Name _____

Phone No. _____

Address _____

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40CFR Part 261 or any applicable state law; That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

 AUTHORIZED AGENT'S NAME (PRINT) DATE SIGNATURE

TRANSPORTER

Name TP Environmental Services

Phone No. 602-278-6233

Address 3045 S 5th Ave

Driver's Name JAVAD CHAK

Phoenix AZ 85043

Vehicle's No. Bu # 5709

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40CFR Part 261 or any applicable state law; That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

4/28/2011 SHIPMENT DATE [Signature] DRIVER'S SIGNATURE 04-29-11 DELIVERY DATE [Signature] DRIVER'S SIGNATURE

DISPOSAL FACILITY

- BUTTERFIELD STATION FACILITY • 40404 South 99th Avenue • Mobile, Arizona 85239 • (602) 256-0630
- NORTHWEST REGIONAL LANDFILL • 19401 West Deer Valley Road • Surprise, Arizona 85387 • (623) 584-6065
- PAINTED DESERT LANDFILL • 9001 North Porter Avenue • Joseph City, Arizona 86032 • (520) 288-3605
- GRAY WOLF LANDFILL • 23355 East Highway 169 • Mile Post 11 • Dewey, Arizona 86327 • (520) 632-0370
- LONE CACTUS LANDFILL • 21402 North 7th Street • Phoenix, Arizona 85024 • (623) 516-0244
- IRONWOOD LANDFILL • 12720 East Highway 287 • Florence, Arizona 85232 • (520) 868-8778

I hereby certify that the above material has been accepted and that information presented on this document are true and accurate.

 NAME (PRINT) DATE SIGNATURE

ORIGINAL - WHITE DISPOSAL FACILITY - YELLOW TRANSPORTER - PINK GENERATOR - GOLDENROD



LIQUID ENVIRONMENTAL SOLUTIONS

NON-HAZARDOUS WASTE MANIFEST

95004

Profile Number
95004

Generator Name	Name: <u>Universal Property</u>	Generator Address	Address: <u>27401</u>
	Phone: ()		City: _____ State: _____ Zip: _____

Check with your state and local regulatory agencies for manifest retention requirements. NOTE: Many regulatory agencies require records to be kept on-site and available to review for up to 3 years.

Waste Type	<input type="checkbox"/> Grease Trap	<input type="checkbox"/> Grit Trap	<input type="checkbox"/> Septic/Chemical Toilet	<input checked="" type="checkbox"/> Non-Industrial	<input type="checkbox"/> Industrial	<input type="checkbox"/> Special
	<input type="checkbox"/> Used Cooking Oil	<input type="checkbox"/> Recyclable Used Oil				

I certify that the waste material removed from the above premises does not contain any radioactive, flammable, explosive, toxic or hazardous material ("Excluded Waste"). The term "hazardous material" is defined as any one or more pollutant, toxic substance, hazardous substance, solvent or oil as defined in or pursuant to the Resource Conservation and Recovery Act, the Comprehensive Environmental Response Compensation and Liability Act, the Federal Clean Water Act, or any other federal, state or local environmental law, regulation, ordinance, or rule, whether existing as of the date of this agreement or subsequently enacted. I also acknowledge that the Generator shall be responsible for any costs incurred by the Transporter or Disposal Facility in handling or proper disposal of any hazardous waste and that the Generator expressly agrees to defend, indemnify and hold harmless the Transporter from and against any and all damages, costs, fines and liabilities resulting from or arising out of any such hazardous waste.

Generator Rep. Name (please print)	<u>Brian</u>	Generator Rep. Signature	<u>[Signature]</u>
------------------------------------	--------------	--------------------------	--------------------

Transporter Name	Name: <u>MTS</u>	Transporter Address	Address: <u>1111</u>
	Phone: ()		City: _____ State: <u>AZ</u> Zip: _____

Waste Removed (Gallons)	Date	Time
	<u>9/2/09</u>	

I certify that the information above is accurate, and that only the waste certified for removal by the Generator is contained in the servicing vehicle. I am aware that falsification of this manifest may result in prosecution.

Driver Name (please print)	<u>Brian</u>	Driver Signature	<u>[Signature]</u>
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Disposal Facility	Liquid Environmental Solutions of Arizona	Address	5159 West Van Buren Street Phoenix, AZ 85043
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Waste Received (Gallons)	Date	Time

Facility Rep. Name (please print)		Facility Rep. Signature	
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WHITE - Generator Final Copy YELLOW - Liquid Environmental Solutions Copy GOLDENROD - Transporter Copy PINK - Generator 1st Copy



LIQUID ENVIRONMENTAL SOLUTIONS

NON-HAZARDOUS WASTE MANIFEST

95005

Profile Number

12-699

Generator Name	Name: <u>LIQUID ENVIRONMENTAL SOLUTIONS</u>	Generator Address	Address: <u>25401</u>	
	Phone: ()		City: <u>Phoenix</u> State: <u>AZ</u> Zip: <u></u>	

Check with your state and local regulatory agencies for manifest retention requirements. NOTE: Many regulatory agencies require records to be kept on-site and available to review for up to 3 years.

Waste Type	<input type="checkbox"/> Grease Trap	<input type="checkbox"/> Grit Trap	<input type="checkbox"/> Septic/Chemical Toilet	<input checked="" type="checkbox"/> Non-Industrial	<input type="checkbox"/> Industrial	<input type="checkbox"/> Special
	<input type="checkbox"/> Used Cooking Oil	<input type="checkbox"/> Recyclable Used Oil				

I certify that the waste material removed from the above premises does not contain any radioactive, flammable, explosive, toxic or hazardous material ("Excluded Waste"). The term "hazardous material" is defined as any one or more pollutant, toxic substance, hazardous substance, solvent or oil as defined in or pursuant to the Resource Conservation and Recovery Act, the Comprehensive Environmental Response Compensation and Liability Act, the Federal Clean Water Act, or any other federal, state or local environmental law, regulation, ordinance, or rule, whether existing as of the date of this agreement or subsequently enacted. I also acknowledge that the Generator shall be responsible for any costs incurred by the Transporter or Disposal Facility in handling or proper disposal of any hazardous waste and that the Generator expressly agrees to defend, indemnify and hold harmless the Transporter from and against any and all damages, costs, fines and liabilities resulting from or arising out of any such hazardous waste.

Generator Rep. Name (please print)	<u>Liquid Environmental Solutions</u>	Generator Rep. Signature	<u>[Signature]</u>
------------------------------------	---------------------------------------	--------------------------	--------------------

Transporter Name	Name: <u>PE</u>	Transporter Address	Address: <u>25401</u>	
	Phone: ()		City: <u>Phoenix</u> State: <u>AZ</u> Zip: <u></u>	

Waste Removed (Gallons)	<u>3000</u>	Date	Time
		<u>4-11-11</u>	

I certify that the information above is accurate, and that only the waste certified for removal by the Generator is contained in the servicing vehicle. I am aware that falsification of this manifest may result in prosecution.

Driver Name (please print)	<u>Drew</u>	Driver Signature	<u>[Signature]</u>
----------------------------	-------------	------------------	--------------------

Disposal Facility	Liquid Environmental Solutions of Arizona	Address	5159 West Van Buren Street Phoenix, AZ 85043
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Waste Received (Gallons)		Date	Time

Facility Rep. Name (please print)		Facility Rep. Signature	
-----------------------------------	--	-------------------------	--

WHITE - Generator Final Copy YELLOW - Liquid Environmental Solutions Copy GOLDENROD - Transporter Copy PINK - Generator 1st Copy



LIQUID ENVIRONMENTAL SOLUTIONS

NON-HAZARDOUS WASTE MANIFEST

96053

925973

Profile Number

125672

Generator Name	Name: <u>2122222222222222</u>	Generator Address	Address: <u>3333333333333333</u>
	Phone: (<u>602</u>) <u>2122222222</u>		City: <u>PHOENIX</u> State: <u>AZ</u> Zip: <u>85043</u>

Check with your state and local regulatory agencies for manifest retention requirements. **NOTE:** Many regulatory agencies require records to be kept on-site and available to review for up to 3 years.

Waste Type: Grease Trap Grit Trap Semic/Chemical Toilet Non-Industrial Industrial Special
 Used Cooling Oil Recyclable Used Oil

I certify that the waste material removed from the above premises does not contain any radioactive, flammable, explosive, toxic or hazardous material (Excluded Waste). The term "hazardous material" is defined as any one or more pollutant, toxic substance, hazardous substance, solvent or oil as defined in or pursuant to the Resource Conservation and Recovery Act, the Comprehensive Environmental Response, Compensation and Liability Act, the Federal Clean Water Act or any other federal, state or local environmental law, regulation or ordinance, whether existing as of the date of this agreement or subsequently enacted. I also acknowledge that the Generator shall be responsible for any costs incurred by the Transporter or Disposal Facility in handling or proper disposal of any hazardous waste and that the Generator expressly agrees to defend, indemnify and hold harmless the Transporter from and against any and all damages, costs, fines and liabilities resulting from or arising out of any such hazardous waste.

Generator Rep. Name (please print)	<u>ALAN S. BROWN</u>	Generator Rep. Signature	
---------------------------------------	----------------------	--------------------------	--

Transporter Name	Name: <u>LIQUID ENVIRONMENTAL SOLUTIONS</u>	Transporter Address	Address: <u>5159 West Van Buren Street</u>
	Phone: (<u>602</u>) <u>278-3442</u>		City: <u>PHOENIX</u> State: <u>AZ</u> Zip: <u>85043</u>

Waste Removed (Gallons)	<u>125672</u>	Date	<u>12/22/02</u>	Time	<u>10:00 AM</u>
-------------------------	---------------	------	-----------------	------	-----------------

I certify that the information above is accurate, and that only the waste certified for removal by the Generator is contained in the servicing vehicle. I am aware that falsification of this manifest may result in prosecution.

Driver Name (please print)	<u>ALAN S. BROWN</u>	Driver Signature	
-------------------------------	----------------------	------------------	--

Disposal Facility	<u>Liquid Environmental Solutions of Arizona</u>	Address	<u>5159 West Van Buren Street Phoenix, AZ 85043</u>
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Waste Received (Gallons)	<u>125672</u>	Date	<u>12/22/02</u>	Time	<u>10:00 AM</u>
--------------------------	---------------	------	-----------------	------	-----------------

Facility Rep. Name (please print)	<u>ALAN S. BROWN</u>	Facility Rep. Signature	
--------------------------------------	----------------------	-------------------------	--

WHITE - Generator Final Copy YELLOW - Liquid Environmental Solutions Copy GOLDENROD - Transporter Copy PINK - Generator 1st Copy



LIQUID ENVIRONMENTAL SOLUTIONS

NON-HAZARDOUS WASTE MANIFEST

903857

94598

07747

Profile Number

19569

Generator Name	Name: <u>Universal Plumbing</u>	Generator Address	Address: <u>25401 Central Ave</u>
	Phone: ()		City: <u>PHX</u> State: <u>AZ</u> Zip: _____

Check with your state and local regulatory agencies for manifest retention requirements. NOTE: Many regulatory agencies require records to be kept on-site and available to review for up to 3 years.

Waste Type	<input type="checkbox"/> Grease Trap	<input type="checkbox"/> Grit Trap	<input type="checkbox"/> Septic/Chemical Toilet	<input type="checkbox"/> Non-Industrial	<input type="checkbox"/> Industrial	<input type="checkbox"/> Special
	<input type="checkbox"/> Used Cooking Oil	<input type="checkbox"/> Recyclable Used Oil				

I certify that the waste material removed from the above premises does not contain any radioactive, flammable, explosive, toxic or hazardous material ("Excluded Waste"). The term "hazardous material" is defined as any one or more pollutant, toxic substance, hazardous substance, solvent or oil as defined in or pursuant to the Resource Conservation and Recovery Act, the Comprehensive Environmental Response Compensation and Liability Act, the Federal Clean Water Act, or any other federal, state or local environmental law, regulation, ordinance, or rule, whether existing as of the date of this agreement or subsequently enacted. I also acknowledge that the Generator shall be responsible for any costs incurred by the Transporter or Disposal Facility in handling or proper disposal of any hazardous waste and that the Generator expressly agrees to defend, indemnify and hold harmless the Transporter from and against any and all damages, costs, fines and liabilities resulting from or arising out of any such hazardous waste.

Generator Rep. Name (please print)	<u>Leo Green</u>	Generator Rep. Signature	<u>[Signature]</u>
------------------------------------	------------------	--------------------------	--------------------

Transporter Name	Name: <u>MPE</u>	Transporter Address	Address: <u>3045 S. ...</u>
	Phone: ()		City: <u>PHX</u> State: <u>AZ</u> Zip: _____

Waste Removed (Gallons)	<u>4500</u>	Date	Time
		<u>8-10-11</u>	

I certify that the information above is accurate, and that only the waste certified for removal by the Generator is contained in the servicing vehicle. I am aware that falsification of this manifest may result in prosecution.

Driver Name (please print)	<u>Dow 11843</u>	Driver Signature	<u>[Signature]</u>
----------------------------	------------------	------------------	--------------------

Disposal Facility	Liquid Environmental Solutions of Arizona	Address	5159 West Van Buren Street Phoenix, AZ 85043
-------------------	---	---------	---

Waste Received (Gallons)	<u>4500</u>	Date	Time
		<u>8-10-11</u>	

Facility Rep. Name (please print)	<u>[Signature]</u>	Facility Rep. Signature	<u>[Signature]</u>
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WHITE - Generator Final Copy YELLOW - Liquid Environmental Solutions Copy GOLDENROD - Transporter Copy PINK - Generator 1st Copy

NON-HAZARDOUS WASTE MANIFEST

203883

MP Environmental Services, Inc.

3045 S. 51st Avenue • Phoenix, AZ 85043 • (602) 278-6233



PROFILE NO. 82211

NOTE: This form to be in lieu of the Toxic Substance Controls hazardous waste manifest. To be used for NON-HAZARDOUS WASTES only.

TO BE COMPLETED BY GENERATOR

Name : Universal Proulsion Company

Mailing Address : 25401 North Central Ave.

City / State / Zip : Phoenix AZ 85085

Phone No : 602-278-6233 Contact : Craig L. Miller

Agent for UPCO

Signature: [Signature] Date: 08 / 22 / 11

THE GENERATOR CERTIFIES THAT THE WASTE AS DESCRIBED IS 100% NON-HAZARDOUS

Waste Description : perchlorate impacted water

Generating Location : 25401 N. Central Ave. Phoenix, AZ 85085

Handling Instructions :

Quantity : 300 [] BBL [x] GLS [] YDS [] TONS

CONTAINER TYPE: [] TANK TRUCK [] DUMP TRUCK [] DRUMS [] BINS [x] OTHER Tote

DESIGNATED FACILITY :

NAME : Stericycle ADDRESS : 2844 West Broadway Road

CITY/STATE/ZIP: Phoenix AZ 85041 PHONE # : 602 276-7602

TRANSPORTER

MP ENVIRONMENTAL SERVICES, INC. 3045 S. 51st Avenue Phoenix, AZ 85043 602 / 278-6233

TICKET# A283241 TRACT/TRLR# 991 / 1 Bin No's Signature: [Signature] Date 8-22-11 P/U DATE: 8-22-11 Job # 11843

DISP FACILITY

Name : Stericycle

Disposal Method :

Address : 2844 West Broadway Road

[] Landfill Other

City/State/Zip : Phoenix AZ 85041

Phone No : 602 276-7602

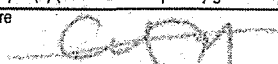
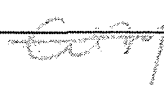
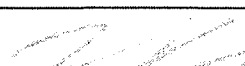
Time : am pm

Discrepancy :

Signature: [Signature]

Date: 08 / 22 / 11

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number A Z D 9 8 0 8 1 4 4 7 9		2. Page 1 of 1		3. Emergency Response Phone 900-833-7602		4. Manifest Tracking Number 003953414 JJK					
		5. Generator's Name and Mailing Address Universal Propulsion Company 25401 North Central Ave. Phoenix AZ 85085						Generator's Site Address (if different than mailing address)					
GENERATOR		6. Transporter 1 Company Name MP Environmental Services						U.S. EPA ID Number C A T 0 0 0 6 2 4 2 4 7					
		7. Transporter 2 Company Name						U.S. EPA ID Number					
DESIGNATED FACILITY		8. Designated Facility Name and Site Address Veolia 107 S. Motor Ave. 174 N. First St. Azusa CA 91702						U.S. EPA ID Number C A D 0 0 8 3 0 2 9 0 3					
		Facility's Phone: 626 334-5117											
GENERATOR		9a. HM				9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total	12. Unit	13. Waste Codes	
								No. Type		Quantity	WL/Vol.		
						Non-RCRA Hazardous Waste Liquid (Perchlorate Impacted Water)		0 0 1 TT		1,000	G	134	
						2.							
						3.							
INT'L		14. Special Handling Instructions and Additional Information 1) Profile # 072454 MPE Job #11843 Wear Proper Personal Protective Gear When Handling											
		15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.											
TRANSPORTER		Generator's/Offoror's Printed/Typed Name Agent For UPCO: Craig L. Miller						Signature <i>[Signature]</i>		Month Day Year 0 8 1 8 1 1			
		16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____		Transporter signature (for exports only): _____									
DESIGNATED FACILITY		17. Transporter Acknowledgment of Receipt of Materials											
		Transporter 1 Printed/Typed Name Ronald Crainell						Signature <i>[Signature]</i>		Month Day Year 0 8 1 8 1 1			
DESIGNATED FACILITY		Transporter 2 Printed/Typed Name						Signature <i>[Signature]</i>		Month Day Year			
		18. Discrepancy											
DESIGNATED FACILITY		18a. Discrepancy Indication Space <input checked="" type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection											
		Actual Amount Received 1155 Gals.						Manifest Reference Number: _____					
DESIGNATED FACILITY		18b. Alternate Facility (or Generator)						U.S. EPA ID Number					
		Facility's Phone: _____											
DESIGNATED FACILITY		18c. Signature of Alternate Facility (or Generator)											
		19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)											
DESIGNATED FACILITY		1. H-39		2.		3.		4.					
		20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a											
Printed/Typed Name Yvonne Moreno						Signature <i>[Signature]</i>		Month Day Year 0 6 1 7 1 1					

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number A Z R 0 0 0 3 5 8 4 0	2. Page 1 of 1	3. Emergency Response Phone 1-800-824-6864	4. Manifest Tracking Number 004142209 FLE		
5. Generator's Name and Mailing Address Stericycle Specialty Waste Solutions Inc. P.O. Box 2844 W Broadway Phoenix AZ 85041				Generator's Site Address (if different than mailing address)			
Generator's Phone: 602.276.7662							
6. Transporter 1 Company Name Stericycle Specialty Waste Solutions, Inc.				U.S. EPA ID Number MNS090110824			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address US Ecology (Beatty) 12 miles south of Beatty on Hwy 95 Beatty NV 89303				U.S. EPA ID Number NVT330010000			
Facility's Phone: 800-338-3943							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
1.	Non-RCRA / Non-DOT Liquid ENG HAZ WASTE 01013770-1011	1	TP	2000	P	HA	
2.							
3.							
4.							
14. Special Handling Instructions and Additional Information 1108326PMX JOB # OUTPAC 11-58-008 1108024							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name Carlos Moreira				Signature 		Month Day Year 8 23 11	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name				Signature		Month Day Year	
Transporter 2 Printed/Typed Name Carlos Moreira				Signature 		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number _____							
18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H039		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Timothy Young				Signature 		Month Day Year 8 23 11	

NON-HAZARDOUS WASTE MANIFEST

NO. 101610AZ



M.P. Environmental Services, Inc. 201653
3045 S. 51st Avenue • Phoenix, AZ 85043 • (602) 278-6233

PROFILE NO. 103111

NOTE: This form to be in lieu of the Toxic Substance Controls hazardous waste manifest. To be used for NON-HAZARDOUS WASTES only.

TO BE COMPLETED BY GENERATOR

Name: Universal Providers Company
Mailing Address: 3501 North Central Ave
City / State / Zip: Phoenix AZ 85018
Phone No: _____ Contact: _____
Signature: X Agent Carl Craig Miller Date: 10/31/11

THE GENERATOR CERTIFIES THAT THE WASTE AS DESCRIBED IS 100% NON-HAZARDOUS

Waste Description: perchlorate impregnated water
Generating Location: 3501 N. Central Ave Phoenix AZ 85018
Handling Instructions: _____
Quantity: 300 [] BBL [x] GLS [] YDS [] TONS
CONTAINER TYPE: [] TANK TRUCK [] DUMP TRUCK [] DRUMS [] BINS [x] OTHER

DESIGNATED FACILITY:

NAME: Starwatts ADDRESS: 2544 West Camelback Road
CITY/STATE/ZIP: Phoenix AZ 85041 PHONE #: 602-278-7502

TRANSPORTER

M.P. ENVIRONMENTAL SERVICES, INC.
3045 S. 51st Avenue
Phoenix, AZ 85043
602 / 278-6233

TICKET# _____ TRACT/TRLR# _____ / _____
Bin No's _____
Signature: _____
Date _____
P/U DATE: _____ Job # _____

TSD FACILITY

Name: Starwatts Disposal Method: [] Landfill [x] Other _____
Address: 2544 West Camelback Road
City/State/Zip: Phoenix AZ 85041
Phone No: 602-278-7502 Time: _____ am/pm
Discrepancy: _____

Signature: [Signature] Date: 11/09/11



LIQUID ENVIRONMENTAL SOLUTIONS

NON-HAZARDOUS WASTE MANIFEST

96008

Profile Number
195699

Generator Name	Name: <u>UPCO</u>	Generator Address	Address: <u>25401 Central Ave</u>
	Phone: <u>(623) 514-3340-8260</u>		City: <u>Phoenix</u> State: <u>AZ</u> Zip: <u>85027</u>

Check with your state and local regulatory agencies for manifest retention requirements. NOTE: Many regulatory agencies require records to be kept on-site and available to review for up to 3 years.

Waste Type	<input type="checkbox"/> Grease Trap	<input type="checkbox"/> Grit Trap	<input type="checkbox"/> Septic/Chemical Toilet	<input checked="" type="checkbox"/> Non-Industrial	<input type="checkbox"/> Industrial	<input type="checkbox"/> Special
	<input type="checkbox"/> Used Cooking Oil	<input type="checkbox"/> Recyclable Used Oil				

I certify that the waste material removed from the above premises does not contain any radioactive, flammable, explosive, toxic or hazardous material ("Excluded Waste"). The term "hazardous material" is defined as any one or more pollutant, toxic substance, hazardous substance, solvent or oil as defined in or pursuant to the Resource Conservation and Recovery Act, the Comprehensive Environmental Response Compensation and Liability Act, the Federal Clean Water Act, or any other federal, state or local environmental law, regulation, ordinance, or rule, whether existing as of the date of this agreement or subsequently enacted. I also acknowledge that the Generator shall be responsible for any costs incurred by the Transporter or Disposal Facility in handling or proper disposal of any hazardous waste and that the Generator expressly agrees to defend, indemnify and hold harmless the Transporter from and against any and all damages, costs, fines and liabilities resulting from or arising out of any such hazardous waste.

Generator Rep. Name (please print)	<u>Agent for UPCO</u> <u>Craig Miller</u>	Generator Rep. Signature	
------------------------------------	--	--------------------------	--

Transporter Name	Name: <u>MPR</u>	Transporter Address	Address: <u>3045 S. 51st Ave</u>
	Phone: <u>(602) 278-6733</u>		City: <u>Phoenix</u> State: <u>AZ</u> Zip: <u>85043</u>

Waste Removed (Gallons)	<u>1200 Gals</u>	Date	Time
		<u>11-2-11</u>	<u>9:00A</u>

I certify that the information above is accurate, and that only the waste certified for removal by the Generator is contained in the servicing vehicle. I am aware that falsification of this manifest may result in prosecution.

Driver Name (please print)	<u>Chad Tucker</u>	Driver Signature	
----------------------------	--------------------	------------------	--

Disposal Facility	<u>Liquid Environmental Solutions of Arizona</u>	Address	<u>5159 West Van Buren Street</u> <u>Phoenix, AZ 85043</u>
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Waste Received (Gallons)	<u>1200</u>	Date	Time
		<u>11/2/11</u>	

Facility Rep. Name (please print)	<u>Sonal D</u>	Facility Rep. Signature	
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BULKING HISTORY REPORT

Container Number

1112049PHX

Waste Stream Non-RCRA / Non-DOT Liquid

Container Size 274

Outbound Manifest

Ship Date

CD

TSDf

DOT Consolidation

1112028

US Ecology (Beatty)

Bulking

Original
Container

Bulking Date	Generator	Job	Manifest	Line	Container	PSN	Talent	Original Container
12/12/2011	Universal Propulsion Company	PHX-11-11-104	11104	1	0001	Non-RCRA / Non-DOT Liquid N/A	CM	

ENVIROSOLVE SHIPPING LOAD REPORT

Beatty
Load

Tuesday, December 14, 2011

Manifest	Line	Container	Job	Barcode	PSN	Generator	Facility
VEHICLE 304 Trailer							
				B1112063PHX	Pesticides, liquid, toxic, n.o.s		US Ecology (Beatty)
				B1112065PHX	Corrosive liquid, acidic, inorganic, n.o.s		US Ecology (Beatty)
				B1112066PHX	Corrosive liquid, acidic, inorganic, n.o.s		US Ecology (Beatty)
				B1103016PHX	Corrosive liquid, acidic, inorganic, n.o.s		US Ecology (Beatty)
				B1112061PHX	Pesticides, liquid, toxic, n.o.s		US Ecology (Beatty)
				B1112060PHX	Pesticides, liquid, toxic, n.o.s		US Ecology (Beatty)
				B1112058PHX	Pesticides, liquid, toxic, n.o.s		US Ecology (Beatty)
12020	1	0003	PHX-11-12-020	C00121130	Corrosive liquid, acidic, inorganic, n.o.s	Metro Plating	US Ecology (Beatty)
				B1112053PHX	Pesticides, liquid, toxic, n.o.s		US Ecology (Beatty)
				B1111146PHX	Latex Paint		US Ecology (Beatty)
				B1112067PHX	Corrosive solid, basic, inorganic, n.o.s		US Ecology (Beatty)
				B1110104PHX	Toxic solid, inorganic, n.o.s		US Ecology (Beatty)
				B1111136PHX	Non-RCRA / Non-DOT Liquid		US Ecology (Beatty)
				B1112049PHX	Non-RCRA / Non-DOT Liquid		US Ecology (Beatty)
12020	1	0002	PHX-11-12-020	C00121129	Corrosive liquid, acidic, inorganic, n.o.s	Metro Plating	US Ecology (Beatty)
12020	1	0001	PHX-11-12-020	C00121128	Corrosive liquid, acidic, inorganic, n.o.s	Metro Plating	US Ecology (Beatty)
12020	1	0004	PHX-11-12-020	C00121131	Corrosive liquid, acidic, inorganic, n.o.s	Metro Plating	US Ecology (Beatty)
				B1112055PHX	Pesticides, liquid, toxic, n.o.s		US Ecology (Beatty)
				B1112050PHX	Corrosive solid, basic, inorganic, n.o.s		US Ecology (Beatty)
				B1111149PHX	Latex Paint		US Ecology (Beatty)
				B1111156PHX	Paint related material -including paint thinning, drying, removing, or reducing compound-		US Ecology (Beatty)
				B1112026PHX	Latex Paint		US Ecology (Beatty)
				B1110080PHX	Corrosive liquid, basic, inorganic, n.o.s		US Ecology (Beatty)
				B1012065PHX	Ammonia solutions ~ relative density between 0.880 and 0.957 at 15 degrees C in water, with more than 10 percent but not more than 35 percent Ammonia-		US Ecology (Beatty)
				B1112052PHX	Corrosive liquid, basic, inorganic, n.o.s		US Ecology (Beatty)
				B1111142PHX	Polychlorinated biphenyls, solid		US Ecology (Beatty)
				B1112051PHX	Corrosive liquid, acidic, inorganic, n.o.s		US Ecology (Beatty)
				B1112068PHX	Corrosive solid, basic, inorganic, n.o.s		US Ecology (Beatty)
				B1112064PHX	Corrosive liquid, acidic, inorganic, n.o.s		US Ecology (Beatty)
				B1112070PHX	Non-RCRA / Non-DOT Liquid		US Ecology (Beatty)
				B1112069PHX	Non-RCRA / Non-DOT Liquid		US Ecology (Beatty)
				B1112082PHX	Non-RCRA / Non-DOT Liquid		US Ecology (Beatty)
				B1112058PHX	Non-RCRA / Non-DOT Liquid		US Ecology (Beatty)
				B1112054PHX	Non-RCRA / Non-DOT Liquid		US Ecology (Beatty)
				B1112059PHX	Non-RCRA / Non-DOT Liquid		US Ecology (Beatty)
				B1111148PHX	Latex Paint		US Ecology (Beatty)
				B1111147PHX	Hypochlorite solutions		US Ecology (Beatty)

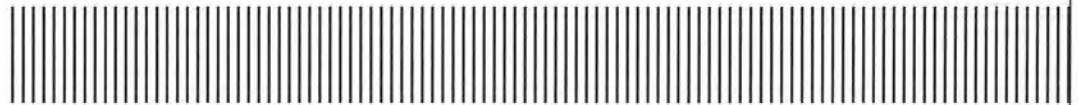
UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number A 2 0 0 0 0 3 5 8 4 9	2. Page 1 of 2	3. Emergency Response Phone 1 800 424 6343	4. Manifest Tracking Number 004142040 FLE				
5. Generator's Name and Mailing Address SPECIALTY Waste Solutions-PA 2042 W Broadway Proctor, NY 14851 Generator's Site Address (if different than mailing address) Generator's Phone: 512 276 1402									
6. Transporter 1 Company Name SPECIALTY Waste Solutions, Inc.				U.S. EPA ID Number M N R 0 9 1 1 0 8 2 4					
7. Transporter 2 Company Name				U.S. EPA ID Number					
8. Designated Facility Name and Site Address US Ecology (local) 12 miles south of Proctor, NY Proctor, NY 14851 Facility's Phone: 716 235 1943				U.S. EPA ID Number M V 1 3 3 0 0 1 9 5 5 4					
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
	1. 200 LBS. 200 LBS. DOT 1133			No.	Type				
	2. 200 LBS. 200 LBS. DOT 1133			2	TP	4000	5	1133	
	3. 200 LBS. 200 LBS. DOT 1133			2	TP	4000	5	1133	
	4. 200 LBS. 200 LBS. DOT 1133			5	TP	10000	5	1133	
14. Special Handling Instructions and Additional Information 11206; 11209; 11205; 11204; 11203; 11202; 11201; 11200; 11199; 11198; 11197; 11196; 11195; 11194; 11193; 11192; 11191; 11190; 11189; 11188; 11187; 11186; 11185; 11184; 11183; 11182; 11181; 11180; 11179; 11178; 11177; 11176; 11175; 11174; 11173; 11172; 11171; 11170; 11169; 11168; 11167; 11166; 11165; 11164; 11163; 11162; 11161; 11160; 11159; 11158; 11157; 11156; 11155; 11154; 11153; 11152; 11151; 11150; 11149; 11148; 11147; 11146; 11145; 11144; 11143; 11142; 11141; 11140; 11139; 11138; 11137; 11136; 11135; 11134; 11133; 11132; 11131; 11130; 11129; 11128; 11127; 11126; 11125; 11124; 11123; 11122; 11121; 11120; 11119; 11118; 11117; 11116; 11115; 11114; 11113; 11112; 11111; 11110; 11109; 11108; 11107; 11106; 11105; 11104; 11103; 11102; 11101; 11100; 11099; 11098; 11097; 11096; 11095; 11094; 11093; 11092; 11091; 11090; 11089; 11088; 11087; 11086; 11085; 11084; 11083; 11082; 11081; 11080; 11079; 11078; 11077; 11076; 11075; 11074; 11073; 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Appendix D
IDW Management Summary
Fourth Quarter 2011 Monitoring Report

Sample Date	Lab Report Number	Sample ID	Bin/Tank ID Numbers	Waste Manifest Number (s)	Sample Location/Remarks	Analysis Method(s)	IDW Classification	Destination	Date(s) Disposed	Quantity solid (tons) or liquid (gallons)
10/26/2011	PUJ1701	MW-19	Tote	201653	Perchlorate impacted water (MW-19)	EPA 314.0	Non-Hazardous	Stericycle	11/9/2011	300 gallons

Universal Propulsion Company
2011 Annual Monitoring Report

Appendix C
Historic Water Level Data



Appendix C
Historic Water Level Data
UPCO and Private Wells

Well Identification	Date of Measurement	Measuring Point Elevation (ft amsl)	Depth to Water from Measuring Point (ft)	Groundwater Elevation (ft amsl)
MW-1	1/6/2004	1557.19	206.64	1350.55
	3/19/2004	1557.22	206.70	1350.57
	4/16/2004	1557.22	206.66	1350.61
	9/7/2004	1557.22	207.79	1349.43
	10/22/2004	1557.22	207.42	1349.80
	11/22/2004	1557.22	207.71	1349.51
	12/7/2004	1557.22	207.80	1349.42
	1/17/2005	1557.22	207.62	1349.60
	2/14/2005	1557.22	207.52	1349.70
	3/15/2005	1557.22	207.36	1349.86
	4/25/2005	1557.22	207.47	1349.75
	5/20/2005	1557.22	207.69	1349.53
	6/27/2005	1557.22	207.82	1349.40
	7/18/2005	1557.22	208.13	1349.09
	8/22/2005	1557.22	208.04	1349.18
	9/22/2005	1557.22	208.03	1349.19
	10/24/2005	1557.22	208.03	1349.19
	12/2/2005	1557.22	207.97	1349.25
	12/22/2005	1557.22	208.15	1349.07
	3/20/2006	1557.22	207.98	1349.24
	5/22/2006	1557.22	208.08	1349.14
	8/28/2006	1557.22	208.04	1349.18
	11/13/2006	1557.22	208.04	1349.18
	2/12/2007	1557.22	208.08	1349.14
	4/9/2007	1557.22	208.03	1349.19
	7/30/2007	1557.22	207.84	1349.38
	10/15/2007	1557.22	208.16	1349.06
	1/14/2008	1557.22	208.37	1348.85
	3/31/2008	1557.22	208.24	1348.98
	4/29/2008	1557.22	208.27	1348.95
	5/27/2008	1557.22	208.37	1348.85
	6/27/2008	1557.22	208.53	1348.69
	7/28/2008	1557.22	208.50	1348.72
	8/29/2008	1557.22	208.55	1348.67
9/20/2008	1557.22	208.44	1348.78	
10/14/2008	1557.22	208.37	1348.85	
11/21/2008	1557.22	208.36	1348.86	
12/15/2008	1557.22	208.44	1348.78	
1/12/2009	1557.22	208.41	1348.81	
2/16/2009	1557.22	208.47	1348.75	
3/17/2009	1557.22	208.42	1348.80	
4/13/2009	1557.22	208.38	1348.84	
5/20/2009	1557.22	208.71	1348.51	

Appendix C
Historic Water Level Data
UPCO and Private Wells

Well Identification	Date of Measurement	Measuring Point Elevation (ft amsl)	Depth to Water from Measuring Point (ft)	Groundwater Elevation (ft amsl)
MW-1 (cont.)	6/15/2009	1557.22	208.58	1348.64
	7/6/2009	1557.22	208.58	1348.64
	8/13/2009	1557.22	208.68	1348.54
	9/28/2009	1560.43	211.92	1348.51
	10/27/2009	1560.43	211.98	1348.45
	11/25/2009	1560.43	212.29	1348.14
	12/18/2009	1560.43	212.35	1348.08
	1/18/2010	1560.43	212.47	1347.96
	6/8/2010	1560.43	211.75	1348.68
	6/22/2010	1560.43	211.76	1348.67
	2/23/2011	1560.43	211.71	1348.72
	3/22/2011	1560.43	211.73	1348.70
	4/26/2011	1560.43	211.77	1348.66
	5/27/2011	1560.43	211.95	1348.48
	6/30/2011	1560.43	211.79	1348.64
	7/25/2011	1560.43	212.02	1348.41
	9/2/2011	1560.43	211.81	1348.62
	9/27/2011	1560.43	211.82	1348.61
	10/24/2011	1560.43	211.88	1348.55
	11/28/2011	1560.43	211.90	1348.53
12/27/2011	1560.43	211.92	1348.51	
MW-2	1/6/2004	1567.51	216.90	1350.61
	3/19/2004	1567.67	217.40	1350.27
	4/16/2004	1567.67	217.06	1350.61
	9/7/2004	1567.62	218.06	1349.56
	10/22/2004	1567.62	217.62	1350.00
	11/22/2004	1567.62	218.10	1349.52
	12/7/2004	1567.62	218.15	1349.47
	1/17/2005	1567.62	218.02	1349.60
	2/14/2005	1567.62	217.93	1349.69
	3/15/2005	1567.62	217.83	1349.79
	4/25/2005	1567.62	217.88	1349.74
	5/20/2005	1567.62	218.06	1349.56
	6/27/2005	1567.62	218.20	1349.42
	7/18/2005	1567.62	218.53	1349.09
	8/22/2005	1567.62	218.43	1349.19
	9/22/2005	1567.62	218.44	1349.18
	10/24/2005	1567.62	218.44	1349.18
	12/2/2005	1567.62	218.34	1349.28
	12/22/2005	1567.62	218.48	1349.14
	3/20/2006	1567.62	218.33	1349.29
5/22/2006	1567.62	218.43	1349.19	
8/28/2006	1567.62	218.35	1349.27	

Appendix C
Historic Water Level Data
UPCO and Private Wells

Well Identification	Date of Measurement	Measuring Point Elevation (ft amsl)	Depth to Water from Measuring Point (ft)	Groundwater Elevation (ft amsl)
MW-2 (cont.)	11/13/2006	1567.62	218.38	1349.24
	2/12/2007	1567.62	218.48	1349.14
	4/9/2007	1567.62	218.41	1349.21
	7/30/2007	1567.62	218.19	1349.43
	10/15/2007	1567.62	218.45	1349.17
	1/14/2008	1567.62	218.70	1348.92
	3/31/2008	1567.62	218.55	1349.07
	4/29/2008	1567.62	218.54	1349.08
	5/27/2008	1567.62	218.69	1348.93
	6/27/2008	1567.62	218.89	1348.73
	7/28/2008	1567.62	218.81	1348.81
	8/29/2008	1567.62	218.83	1348.79
	9/20/2008	1567.62	218.75	1348.87
	10/14/2008	1567.62	218.69	1348.93
	11/21/2008	1567.62	218.69	1348.93
	12/15/2008	1567.62	218.77	1348.85
	1/12/2009	1567.62	218.81	1348.81
	2/16/2009	1567.62	218.85	1348.77
	3/17/2009	1567.62	218.48	1349.14
	4/13/2009	1567.62	218.73	1348.89
	5/20/2009	1567.62	219.05	1348.57
	6/15/2009	1567.62	218.95	1348.67
	7/6/2009	1567.62	218.95	1348.67
	8/13/2009	1567.62	219.03	1348.59
	9/28/2009	1571.22	222.74	1348.48
	10/27/2009	1571.22	222.71	1348.51
	11/25/2009	1571.22	223.06	1348.16
	12/18/2009	1571.22	223.08	1348.14
	1/18/2010	1571.22	223.25	1347.97
	6/8/2010	1571.22	222.57	1348.65
	6/22/2010	1571.22	222.57	1348.65
	2/23/2011	1571.22	222.53	1348.69
	3/22/2011	1571.22	222.60	1348.62
	4/26/2011	1571.22	222.55	1348.67
	5/27/2011	1571.22	222.56	1348.66
	6/30/2011	1571.22	222.61	1348.61
7/25/2011	1571.22	222.84	1348.38	
9/2/2011	1571.22	222.61	1348.61	
9/27/2011	1571.22	221.61	1349.61	
10/24/2011	1571.22	222.71	1348.51	
11/28/2011	1571.22	222.71	1348.51	
12/27/2011	1571.22	222.76	1348.46	

Appendix C
Historic Water Level Data
UPCO and Private Wells

Well Identification	Date of Measurement	Measuring Point Elevation (ft amsl)	Depth to Water from Measuring Point (ft)	Groundwater Elevation (ft amsl)
MW-3	9/7/2004	1583.59	229.10	1354.50
	10/22/2004	1583.59	227.92	1355.67
	11/22/2004	1583.59	228.91	1354.68
	12/7/2004	1583.59	229.03	1354.56
	1/17/2005	1583.59	229.35	1354.24
	2/14/2005	1583.59	229.73	1353.86
	3/15/2005	1583.59	229.86	1353.73
	4/25/2005	1583.59	229.94	1353.65
	5/20/2005	1583.59	230.21	1353.38
	6/27/2005	1583.59	230.30	1353.29
	7/18/2005	1583.59	230.61	1352.98
	8/22/2005	1583.59	230.63	1352.96
	9/22/2005	1583.59	231.67	1351.92
	10/24/2005	1583.59	230.94	1352.65
	11/30/2005	1583.59	231.12	1352.47
	12/22/2005	1583.59	231.15	1352.44
	3/21/2006	1583.59	231.59	1352.00
	5/22/2006	1583.59	231.91	1351.68
	8/28/2006	1583.59	232.24	1351.35
	11/13/2006	1583.59	232.82	1350.77
	2/12/2007	1583.59	232.76	1350.83
	4/9/2007	1583.59	233.11	1350.48
	7/30/2007	1583.59	233.52	1350.07
	10/15/2007	1583.59	234.45	1349.14
	1/14/2008	1583.59	234.93	1348.66
	3/31/2008	1583.59	235.42	1348.17
	4/29/2008	1583.59	235.21	1348.38
	5/27/2008	1583.59	235.48	1348.11
	6/27/2008	1583.59	235.66	1347.93
	7/28/2008	1583.59	235.79	1347.80
	8/29/2008	1583.59	236.07	1347.52
	9/20/2008	1583.59	236.10	1347.49
	10/14/2008	1583.59	236.30	1347.29
	11/21/2008	1583.59	236.45	1347.14
12/15/2008	1583.59	236.59	1347.00	
1/12/2009	1583.59	236.60	1346.99	
2/16/2009	1583.59	236.86	1346.73	
3/17/2009	1583.59	237.00	1346.59	
4/13/2009	1583.59	237.07	1346.52	
5/20/2009	1583.59	237.24	1346.35	
6/15/2009	1583.59	237.31	1346.28	
7/6/2009	1583.59	237.35	1346.24	
8/12/2009	1583.59	237.47	1346.12	

Appendix C
Historic Water Level Data
UPCO and Private Wells

Well Identification	Date of Measurement	Measuring Point Elevation (ft amsl)	Depth to Water from Measuring Point (ft)	Groundwater Elevation (ft amsl)
MW-3 (cont.)	9/28/2009	1583.59	237.81	1345.78
	10/27/2009	1583.59	237.82	1345.77
	11/25/2009	1583.59	238.13	1345.46
	12/18/2009	1583.59	238.13	1345.46
	1/18/2010	1583.59	238.35	1345.24
	6/8/2010	1583.59	239.06	1344.53
	6/22/2010	1583.59	239.16	1344.43
	2/23/2011	1583.59	240.15	1343.44
	3/22/2011	1583.59	240.46	1343.13
	4/25/2011	1583.59	240.53	1343.06
	5/27/2011	1583.59	240.77	1342.82
	6/30/2011	1583.59	240.81	1342.78
	7/25/2011	1583.59	241.04	1342.55
	9/2/2011	1583.59	241.11	1342.48
	9/27/2011	1583.59	241.15	1342.44
	10/24/2011	1583.59	241.23	1342.36
	11/28/2011	1583.59	241.26	1342.33
12/27/2011	1583.59	241.42	1342.17	
MW-4	9/7/2004	1620.34	269.13	1351.21
	10/22/2004	1620.34	268.92	1351.42
	11/22/2004	1620.34	269.58	1350.76
	12/7/2004	1620.34	269.83	1350.51
	1/17/2005	1620.34	269.84	1350.50
	2/14/2005	1620.34	270.04	1350.30
	3/15/2005	1620.34	270.15	1350.19
	4/25/2005	1620.34	270.12	1350.22
	5/20/2005	1620.34	270.22	1350.12
	6/27/2005	1620.34	270.26	1350.08
	7/18/2005	1620.34	270.56	1349.78
	8/22/2005	1620.34	270.40	1349.94
	9/22/2005	1620.34	270.44	1349.90
	10/24/2005	1620.34	270.78	1349.56
	11/30/2005	1620.34	270.82	1349.52
	12/22/2005	1620.34	270.80	1349.54
	3/20/2006	1620.34	271.28	1349.06
	5/22/2006	1620.34	271.43	1348.91
	8/28/2006	1620.34	271.82	1348.52
	11/13/2006	1620.34	271.33	1349.01
	2/12/2007	1620.34	271.51	1348.83
4/9/2007	1620.34	271.66	1348.68	
7/30/2007	1620.34	272.63	1347.71	
10/15/2007	1620.34	273.35	1346.99	
1/14/2008	1620.34	273.81	1346.53	

Appendix C
Historic Water Level Data
UPCO and Private Wells

Well Identification	Date of Measurement	Measuring Point Elevation (ft amsl)	Depth to Water from Measuring Point (ft)	Groundwater Elevation (ft amsl)
MW-4 (cont.)	3/31/2008	1620.34	274.00	1346.34
	4/29/2008	1620.34	273.76	1346.58
	5/27/2008	1620.34	274.05	1346.29
	6/27/2008	1620.34	274.18	1346.16
	7/28/2008	1620.34	274.22	1346.12
	8/29/2008	1620.34	274.40	1345.94
	9/20/2008	1620.34	274.48	1345.86
	10/14/2008	1620.34	274.68	1345.66
	11/21/2008	1620.34	274.70	1345.64
	12/15/2008	1620.34	274.90	1345.44
	1/12/2009	1620.34	274.93	1345.41
	2/16/2009	1620.34	274.78	1345.56
	3/17/2009	1620.34	275.07	1345.27
	4/13/2009	1620.34	275.04	1345.30
	5/20/2009	1620.34	275.19	1345.15
	6/15/2009	1620.34	275.23	1345.11
	7/6/2009	1620.34	275.26	1345.08
	8/12/2009	1620.34	275.39	1344.95
	9/28/2009	1620.34	275.50	1344.84
	10/27/2009	1620.34	275.50	1344.84
	11/25/2009	1620.34	275.86	1344.48
	12/18/2009	1620.34	275.82	1344.52
	1/18/2010	1620.34	275.97	1344.37
	6/8/2010	1620.34	276.21	1344.13
	6/22/2010	1620.34	276.35	1343.99
	2/23/2011	1620.34	276.84	1343.50
	3/22/2011	1620.34	276.97	1343.37
	4/25/2011	1620.34	276.92	1343.42
	5/27/2011	1620.34	276.94	1343.40
	6/30/2011	1620.34	277.11	1343.23
	7/25/2011	1620.34	277.39	1342.95
	9/2/2011	1620.34	277.28	1343.06
9/27/2011	1620.34	277.29	1343.05	
10/24/2011	1620.34	277.38	1342.96	
11/28/2011	1620.34	277.53	1342.81	
12/27/2011	1620.34	277.59	1342.75	
MW-5	9/7/2004	1590.45	240.17	1350.28
	10/22/2004	1590.45	239.67	1350.78
	11/22/2004	1590.45	240.40	1350.05
	12/7/2004	1590.45	240.49	1349.96
	1/17/2005	1590.45	240.47	1349.98
	2/14/2005	1590.45	240.44	1350.01
	3/15/2005	1590.45	240.36	1350.09

Appendix C
Historic Water Level Data
UPCO and Private Wells

Well Identification	Date of Measurement	Measuring Point Elevation (ft amsl)	Depth to Water from Measuring Point (ft)	Groundwater Elevation (ft amsl)
MW-5 (cont.)	4/25/2005	1590.45	240.38	1350.07
	5/20/2005	1590.45	240.48	1349.97
	6/27/2005	1590.45	240.58	1349.87
	7/18/2005	1590.45	240.90	1349.55
	8/22/2005	1590.45	240.81	1349.64
	9/22/2005	1590.45	240.81	1349.64
	10/24/2005	1590.45	240.85	1349.60
	11/30/2005	1590.45	240.81	1349.64
	12/22/2005	1590.45	240.90	1349.55
	3/20/2006	1590.45	240.92	1349.53
	5/22/2006	1590.45	241.07	1349.38
	8/28/2006	1590.45	240.97	1349.48
	11/13/2006	1590.45	241.04	1349.41
	2/12/2007	1590.45	241.09	1349.36
	4/9/2007	1590.45	241.10	1349.35
	7/30/2007	1590.45	240.81	1349.64
	10/15/2007	1590.45	241.12	1349.33
	1/14/2008	1590.45	241.28	1349.17
	3/31/2008	1590.45	241.31	1349.14
	4/29/2008	1590.45	241.28	1349.17
	5/27/2008	1590.45	241.33	1349.12
	6/27/2008	1590.45	241.48	1348.97
	7/28/2008	1590.45	241.44	1349.01
	8/29/2008	1590.45	241.45	1349.00
	9/20/2008	1590.45	241.48	1348.97
	10/14/2008	1590.45	241.43	1349.02
	11/21/2008	1590.45	241.45	1349.00
	12/15/2008	1590.45	241.43	1349.02
	1/12/2009	1590.45	241.42	1349.03
	2/16/2009	1590.45	241.45	1349.00
	3/17/2009	1590.45	241.43	1349.02
	4/13/2009	1590.45	241.43	1349.02
	5/20/2009	1590.45	241.53	1348.92
	6/15/2009	1590.45	241.57	1348.88
	7/6/2009	1590.45	241.54	1348.91
	8/12/2009	1590.45	241.58	1348.87
	9/28/2009	1594.08	245.32	1348.76
	10/27/2009	1594.08	245.38	1348.70
	11/25/2009	1594.08	245.54	1348.54
	12/18/2009	1594.08	245.59	1348.49
1/18/2010	1594.08	245.76	1348.32	
6/8/2010	1594.08	245.39	1348.69	
6/22/2010	1594.08	245.38	1348.70	

Appendix C
Historic Water Level Data
UPCO and Private Wells

Well Identification	Date of Measurement	Measuring Point Elevation (ft amsl)	Depth to Water from Measuring Point (ft)	Groundwater Elevation (ft amsl)
MW-5 (cont.)	2/23/2011	1594.08	245.38	1348.70
	3/22/2011	1594.08	245.37	1348.71
	4/26/2011	1594.08	245.43	1348.65
	5/27/2011	1594.08	245.39	1348.69
	6/30/2011	1594.08	245.41	1348.67
	7/25/2011	1594.08	245.64	1348.44
	9/2/2011	1594.08	245.44	1348.64
	9/27/2011	1594.08	245.45	1348.63
	10/24/2011	1594.08	245.50	1348.58
	11/28/2011	1594.08	245.53	1348.55
	12/27/2011	1594.08	245.56	1348.52
MW-6	9/7/2004	1548.22	162.22	1386.00
	10/22/2004	1548.22	161.27	1386.95
	11/22/2004	1548.22	161.77	1386.45
	12/7/2004	1548.22	161.99	1386.23
	1/17/2005	1548.22	162.32	1385.90
	2/14/2005	1548.22	162.50	1385.72
	3/15/2005	1548.22	160.38	1387.84
	4/25/2005	1548.22	149.74	1398.48
	5/20/2005	1548.22	148.31	1399.91
	6/27/2005	1548.22	148.82	1399.40
	7/18/2005	1548.22	149.61	1398.61
	8/22/2005	1548.22	150.88	1397.34
	9/22/2005	1548.22	151.89	1396.33
	10/24/2005	1548.22	153.11	1395.11
	11/30/2005	1548.22	154.16	1394.06
	12/22/2005	1548.22	154.68	1393.54
	3/20/2006	1548.22	156.61	1391.61
	5/22/2006	1548.22	157.80	1390.42
	8/28/2006	1548.22	159.64	1388.58
	11/13/2006	1548.22	161.11	1387.11
	2/12/2007	1548.22	161.95	1386.27
	4/9/2007	1548.22	161.63	1386.59
	7/30/2007	1548.22	162.92	1385.30
	10/15/2007	1548.22	163.95	1384.27
	1/14/2008	1548.22	164.94	1383.28
	3/31/2008	1548.22	165.42	1382.80
	4/29/2008	1548.22	164.28	1383.94
	5/27/2008	1548.22	163.05	1385.17
	6/27/2008	1548.22	162.08	1386.14
	7/28/2008	1548.22	161.50	1386.72
8/29/2008	1548.22	161.30	1386.92	
9/20/2008	1548.22	161.33	1386.89	

Appendix C
Historic Water Level Data
UPCO and Private Wells

Well Identification	Date of Measurement	Measuring Point Elevation (ft amsl)	Depth to Water from Measuring Point (ft)	Groundwater Elevation (ft amsl)
MW-6 (cont.)	10/14/2008	1548.22	161.48	1386.74
	11/21/2008	1548.22	161.71	1386.51
	12/15/2008	1548.22	161.89	1386.33
	1/12/2009	1548.22	162.28	1385.94
	2/16/2009	1548.22	162.43	1385.79
	3/17/2009	1548.22	162.81	1385.41
	4/13/2009	1548.22	162.83	1385.39
	5/20/2009	1548.22	162.78	1385.44
	6/15/2009	1548.22	162.57	1385.65
	7/6/2009	1548.22	162.50	1385.72
	8/12/2009	1548.22	162.64	1385.58
	9/28/2009	1551.65	166.25	1385.40
	10/27/2009	1551.65	166.33	1385.32
	11/25/2009	1551.65	167.02	1384.63
	12/18/2009	1551.65	167.10	1384.55
	1/18/2010	1551.65	167.37	1384.28
	6/8/2010	1551.65	162.94	1388.71
	6/22/2010	1551.65	162.17	1389.48
	2/23/2011	1551.65	162.70	1388.95
	3/22/2011	1551.65	163.03	1388.62
	4/26/2011	1551.65	162.62	1389.03
	5/27/2011	1551.65	162.82	1388.83
	6/30/2011	1551.65	162.68	1388.97
	7/25/2011	1551.65	163.13	1388.52
	9/2/2011	1551.65	163.19	1388.46
	9/27/2011	1551.65	163.47	1388.18
	10/24/2011	1551.65	163.80	1387.85
	11/28/2011	1551.65	164.37	1387.28
12/27/2011	1551.65	164.70	1386.95	
MW-7	10/22/2004	1541.35	157.21	1384.14
	11/22/2004	1541.35	154.14	1387.21
	12/7/2004	1541.35	154.55	1386.80
	1/17/2005	1541.35	155.02	1386.33
	2/14/2005	1541.35	155.20	1386.15
	3/15/2005	1541.35	155.48	1385.87
	4/25/2005	1541.35	155.56	1385.79
	5/20/2005	1541.35	155.56	1385.79
	6/27/2005	1541.35	155.60	1385.75
	7/18/2005	1541.35	155.94	1385.41
	8/22/2005	1541.35	156.09	1385.26
	9/22/2005	1541.35	156.37	1384.98
	10/24/2005	1541.35	157.01	1384.34
11/30/2005	1541.35	157.41	1383.94	

Appendix C
Historic Water Level Data
UPCO and Private Wells

Well Identification	Date of Measurement	Measuring Point Elevation (ft amsl)	Depth to Water from Measuring Point (ft)	Groundwater Elevation (ft amsl)
MW-7 (cont.)	12/22/2005	1541.35	157.73	1383.62
	3/20/2006	1541.35	158.83	1382.52
	5/22/2006	1541.35	159.39	1381.96
	8/28/2006	1541.35	159.54	1381.81
	11/13/2006	1541.35	159.48	1381.87
	2/12/2007	1541.35	159.37	1381.98
	4/9/2007	1541.35	159.30	1382.05
	7/30/2007	1541.35	159.48	1381.87
	10/15/2007	1541.35	160.12	1381.23
	1/14/2008	1541.35	160.61	1380.74
	3/31/2008	1541.35	160.53	1380.82
	4/29/2008	1541.35	160.46	1380.89
	5/27/2008	1541.35	160.63	1380.72
	6/27/2008	1541.35	160.83	1380.52
	7/28/2008	1541.35	160.92	1380.43
	8/29/2008	1541.35	160.85	1380.50
	9/20/2008	1541.35	160.98	1380.37
	10/14/2008	1541.35	161.21	1380.14
	11/21/2008	1541.35	161.22	1380.13
	12/15/2008	1541.35	161.19	1380.16
	1/12/2009	1541.35	161.39	1379.96
	2/16/2009	1541.35	161.17	1380.18
	3/17/2009	1541.35	161.42	1379.93
	4/13/2009	1541.35	161.39	1379.96
	5/20/2009	1541.35	161.49	1379.86
	6/15/2009	1541.35	161.57	1379.78
	7/6/2009	1541.35	161.58	1379.77
	8/12/2009	1541.35	161.71	1379.64
	9/28/2009	1541.35	161.71	1379.64
	10/27/2009	1541.35	161.70	1379.65
	11/25/2009	1541.35	162.06	1379.29
	12/18/2009	1541.35	162.07	1379.28
	1/18/2010	1541.35	162.03	1379.32
6/8/2010	1541.35	162.04	1379.31	
6/22/2010	1541.35	162.16	1379.19	
2/23/2011	1541.35	162.20	1379.15	
3/22/2011	1541.35	162.36	1378.99	
4/25/2011	1541.35	162.25	1379.10	
5/27/2011	1541.35	162.24	1379.11	
6/30/2011	1541.35	162.93	1378.42	
7/25/2011	1541.35	162.66	1378.69	
9/2/2011	1541.35	162.41	1378.94	
9/27/2011	1541.35	162.42	1378.93	

Appendix C
Historic Water Level Data
UPCO and Private Wells

Well Identification	Date of Measurement	Measuring Point Elevation (ft amsl)	Depth to Water from Measuring Point (ft)	Groundwater Elevation (ft amsl)
MW-7 (cont.)	10/24/2011	1541.35	162.50	1378.85
	11/28/2011	1541.35	162.64	1378.71
	12/27/2011	1541.35	162.61	1378.74
MW-8	10/22/2004	1542.18	193.21	1348.97
	11/22/2004	1542.18	192.27	1349.91
	12/7/2004	1542.18	192.29	1349.89
	1/17/2005	1542.18	192.27	1349.91
	2/14/2005	1542.18	192.29	1349.89
	3/15/2005	1542.18	192.27	1349.91
	4/25/2005	1542.18	192.29	1349.89
	5/20/2005	1542.18	192.50	1349.68
	6/27/2005	1542.18	192.57	1349.61
	7/18/2005	1542.18	192.88	1349.30
	8/22/2005	1542.18	192.90	1349.28
	9/22/2005	1542.18	192.84	1349.34
	10/24/2005	1542.18	192.89	1349.29
	11/30/2005	1542.18	192.84	1349.34
	12/22/2005	1542.18	192.91	1349.27
	3/20/2006	1542.18	192.83	1349.35
	5/22/2006	1542.18	192.97	1349.21
	8/28/2006	1542.18	192.95	1349.23
	11/13/2006	1542.18	192.98	1349.20
	2/12/2007	1542.18	193.01	1349.17
	4/9/2007	1542.18	192.79	1349.39
	7/30/2007	1542.18	192.71	1349.47
	10/15/2007	1542.18	193.18	1349.00
	1/14/2008	1542.18	193.32	1348.86
	3/31/2008	1542.18	193.17	1349.01
	4/29/2008	1542.18	193.08	1349.10
	5/27/2008	1542.18	193.25	1348.93
	6/27/2008	1542.18	193.39	1348.79
	7/28/2008	1542.18	193.36	1348.82
	8/29/2008	1542.18	193.37	1348.81
	9/20/2008	1542.18	193.35	1348.83
	10/14/2008	1542.18	193.37	1348.81
11/21/2008	1542.18	193.38	1348.80	
12/15/2008	1542.18	193.35	1348.83	
1/12/2009	1542.18	193.34	1348.84	
2/16/2009	1542.18	193.37	1348.81	
3/17/2009	1542.18	193.38	1348.80	
4/13/2009	1542.18	193.33	1348.85	
5/20/2009	1542.18	193.55	1348.63	
6/15/2009	1542.18	193.51	1348.67	

Appendix C
Historic Water Level Data
UPCO and Private Wells

Well Identification	Date of Measurement	Measuring Point Elevation (ft amsl)	Depth to Water from Measuring Point (ft)	Groundwater Elevation (ft amsl)
MW-8 (cont.)	7/6/2009	1542.18	193.49	1348.69
	8/12/2009	1542.18	193.52	1348.66
	9/28/2009	1542.18	193.70	1348.48
	10/27/2009	1542.18	193.80	1348.38
	11/25/2009	1542.18	193.99	1348.19
	12/18/2009	1542.18	194.08	1348.10
	1/18/2010	1542.18	194.20	1347.98
	6/8/2010	1542.18	193.56	1348.62
	6/22/2010	1542.18	193.62	1348.56
	2/23/2011	1542.18	193.59	1348.59
	3/22/2011	1542.18	193.66	1348.52
	4/25/2011	1542.18	193.60	1348.58
	5/27/2011	1542.18	193.65	1348.53
	6/30/2011	1542.18	193.68	1348.50
	7/25/2011	1542.18	193.85	1348.33
	9/2/2011	1542.18	193.69	1348.49
	9/27/2011	1542.18	193.70	1348.48
	10/24/2011	1542.18	193.76	1348.42
11/28/2011	1542.18	193.74	1348.44	
12/27/2011	1542.18	193.75	1348.43	
MW-9	2/14/2005	1565.60	215.29	1350.31
	3/15/2005	1565.60	215.36	1350.24
	4/25/2005	1565.60	215.34	1350.26
	5/20/2005	1565.60	215.36	1350.24
	6/27/2005	1565.60	215.41	1350.19
	7/18/2005	1565.60	215.68	1349.92
	8/22/2005	1565.60	215.57	1350.03
	9/22/2005	1565.60	215.59	1350.01
	10/24/2005	1565.60	215.72	1349.88
	11/30/2005	1565.60	215.70	1349.90
	12/22/2005	1565.60	215.64	1349.96
	3/20/2006	1565.60	215.82	1349.78
	5/22/2006	1565.60	216.03	1349.57
	8/28/2006	1565.60	215.95	1349.65
	11/13/2006	1565.60	216.07	1349.53
	2/12/2007	1565.60	216.12	1349.48
	4/9/2007	1565.60	216.19	1349.41
	7/30/2007	1565.60	215.83	1349.77
	10/15/2007	1565.60	216.16	1349.44
	1/14/2008	1565.60	216.30	1349.30
3/31/2008	1565.60	216.26	1349.34	
4/29/2008	1565.60	216.15	1349.45	
5/27/2008	1565.60	216.24	1349.36	

Appendix C
Historic Water Level Data
UPCO and Private Wells

Well Identification	Date of Measurement	Measuring Point Elevation (ft amsl)	Depth to Water from Measuring Point (ft)	Groundwater Elevation (ft amsl)
MW-9 (cont.)	6/27/2008	1565.60	216.37	1349.23
	7/28/2008	1565.60	216.34	1349.26
	8/29/2008	1565.60	216.38	1349.22
	9/20/2008	1565.60	216.42	1349.18
	10/14/2008	1565.60	216.46	1349.14
	11/21/2008	1565.60	216.51	1349.09
	12/15/2008	1565.60	216.52	1349.08
	1/12/2009	1565.60	216.53	1349.07
	2/16/2009	1565.60	216.52	1349.08
	3/17/2009	1565.60	216.56	1349.04
	4/13/2009	1565.60	216.54	1349.06
	5/20/2009	1565.60	216.58	1349.02
	6/15/2009	1565.60	216.60	1349.00
	7/6/2009	1565.60	216.61	1348.99
	8/12/2009	1565.60	216.62	1348.98
	9/28/2009	1565.60	216.68	1348.92
	10/27/2009	1565.60	216.62	1348.98
	11/25/2009	1565.60	216.80	1348.80
	12/18/2009	1565.60	216.85	1348.75
	1/18/2010	1565.60	216.94	1348.66
	6/8/2010	1565.60	216.85	1348.75
	6/22/2010	1565.60	216.92	1348.68
	2/23/2011	1565.60	216.90	1348.70
	3/22/2011	1565.60	216.92	1348.68
	4/25/2011	1565.60	216.86	1348.74
	5/27/2011	1565.60	216.93	1348.67
	6/30/2011	1565.60	216.93	1348.67
	7/25/2011	1565.60	217.11	1348.49
	9/2/2011	1565.60	216.92	1348.68
	9/27/2011	1565.60	216.94	1348.66
10/24/2011	1565.60	216.99	1348.61	
11/28/2011	1565.60	216.95	1348.65	
12/27/2011	1565.60	217.00	1348.60	
MW-10	2/14/2005	1536.11	149.92	1386.19
	3/15/2005	1536.11	149.71	1386.40
	4/25/2005	1536.11	149.56	1386.55
	5/20/2005	1536.11	149.33	1386.78
	6/27/2005	1536.11	149.04	1387.07
	7/18/2005	1536.11	149.08	1387.03
	8/22/2005	1536.11	149.02	1387.09
	9/22/2005	1536.11	148.88	1387.23
	10/24/2005	1536.11	149.20	1386.91
	11/30/2005	1536.11	149.27	1386.84

Appendix C
Historic Water Level Data
UPCO and Private Wells

Well Identification	Date of Measurement	Measuring Point Elevation (ft amsl)	Depth to Water from Measuring Point (ft)	Groundwater Elevation (ft amsl)
MW-10 (cont.)	12/22/2005	1536.11	149.33	1386.78
	3/20/2006	1536.11	149.54	1386.57
	5/22/2006	1536.11	149.66	1386.45
	8/28/2006	1536.11	150.05	1386.06
	11/13/2006	1536.11	150.45	1385.66
	2/12/2007	1536.11	150.63	1385.48
	4/9/2007	1536.11	150.75	1385.36
	7/30/2007	1536.11	150.88	1385.23
	10/15/2007	1536.11	151.45	1384.66
	1/14/2008	1536.11	151.93	1384.18
	3/31/2008	1536.11	152.04	1384.07
	4/29/2008	1536.11	151.98	1384.13
	5/27/2008	1536.11	152.20	1383.91
	6/27/2008	1536.11	152.37	1383.74
	7/28/2008	1536.11	152.48	1383.63
	8/29/2008	1536.11	152.41	1383.70
	9/20/2008	1536.11	152.58	1383.53
	10/14/2008	1536.11	152.83	1383.28
	11/21/2008	1536.11	152.88	1383.23
	12/15/2008	1536.11	152.87	1383.24
	1/12/2009	1536.11	153.14	1382.97
	2/16/2009	1536.11	152.95	1383.16
	3/17/2009	1536.11	153.23	1382.88
	4/13/2009	1536.11	153.24	1382.87
	5/20/2009	1536.11	153.28	1382.83
	6/15/2009	1536.11	153.35	1382.76
	7/6/2009	1536.11	153.42	1382.69
	8/12/2009	1536.11	153.61	1382.50
	9/28/2009	1536.11	153.62	1382.49
	10/27/2009	1536.11	153.64	1382.47
	11/25/2009	1536.11	153.98	1382.13
	12/18/2009	1536.11	154.00	1382.11
	1/18/2010	1536.11	154.02	1382.09
	6/8/2010	1536.11	154.47	1381.64
6/22/2010	1536.11	154.54	1381.57	
2/23/2011	1536.11	154.90	1381.21	
3/22/2011	1536.11	154.95	1381.16	
4/25/2011	1536.11	154.93	1381.18	
5/27/2011	1536.11	154.93	1381.18	
6/30/2011	1536.11	155.00	1381.11	
7/25/2011	1536.11	155.40	1380.71	
9/2/2011	1536.11	155.12	1380.99	
9/27/2011	1536.11	155.22	1380.89	

Appendix C
Historic Water Level Data
UPCO and Private Wells

Well Identification	Date of Measurement	Measuring Point Elevation (ft amsl)	Depth to Water from Measuring Point (ft)	Groundwater Elevation (ft amsl)
MW-10 (cont.)	10/24/2011	1536.11	155.31	1380.80
	11/28/2011	1536.11	155.51	1380.60
	12/27/2011	1536.11	155.57	1380.54
MW-11	12/22/2005	1603.35	253.68	1349.67
	3/20/2006	1603.35	253.71	1349.64
	5/22/2006	1603.35	253.83	1349.52
	8/28/2006	1603.35	253.78	1349.57
	11/13/2006	1603.35	253.80	1349.55
	2/12/2007	1603.35	253.86	1349.49
	4/9/2007	1603.35	253.87	1349.48
	7/30/2007	1603.35	253.51	1349.84
	10/15/2007	1603.35	253.90	1349.45
	1/14/2008	1603.35	254.07	1349.28
	4/29/2008	1603.35	254.13	1349.22
	5/27/2008	1603.35	254.12	1349.23
	6/27/2008	1603.35	254.20	1349.15
	7/28/2008	1603.35	254.26	1349.09
	8/29/2008	1603.35	254.28	1349.07
	9/20/2008	1603.35	254.25	1349.10
	10/14/2008	1603.35	254.23	1349.12
	11/21/2008	1603.35	254.23	1349.12
	12/15/2008	1603.35	254.20	1349.15
	1/12/2009	1603.35	254.22	1349.13
	2/16/2009	1603.35	254.20	1349.15
	3/17/2009	1603.35	254.25	1349.10
	4/13/2009	1603.35	254.24	1349.11
	5/20/2009	1603.35	254.32	1349.03
	6/15/2009	1603.35	254.35	1349.00
	7/6/2009	1603.35	254.35	1349.00
	8/12/2009	1603.35	254.38	1348.97
	9/28/2009	1603.35	254.52	1348.83
	10/27/2009	1603.35	254.61	1348.74
	11/25/2009	1603.35	254.73	1348.62
	12/18/2009	1603.35	254.80	1348.55
	1/18/2010	1603.35	254.92	1348.43
	6/8/2010	1606.14	257.63	1348.51
6/22/2010	1606.14	257.62	1348.52	
2/23/2011	1603.35	254.81	1348.54	
3/22/2011	1603.35	254.81	1348.54	
4/25/2011	1603.35	254.79	1348.56	
5/27/2011	1603.35	254.82	1348.53	
6/30/2011	1603.35	254.85	1348.50	
7/25/2011	1603.35	255.09	1348.26	

Appendix C
Historic Water Level Data
UPCO and Private Wells

Well Identification	Date of Measurement	Measuring Point Elevation (ft amsl)	Depth to Water from Measuring Point (ft)	Groundwater Elevation (ft amsl)
MW-11 (cont.)	9/2/2011	1603.35	254.86	1348.49
	9/27/2011	1603.35	254.89	1348.46
	10/24/2011	1603.35	254.93	1348.42
	11/28/2011	1603.35	254.94	1348.41
	12/27/2011	1603.35	254.99	1348.36
MW-12	12/22/2005	1557.46	209.16	1348.30
	3/20/2006	1557.46	209.09	1348.37
	5/22/2006	1557.46	209.17	1348.29
	8/28/2006	1557.46	209.12	1348.34
	11/13/2006	1557.46	209.14	1348.32
	2/12/2007	1557.46	209.23	1348.23
	4/9/2007	1557.46	209.16	1348.30
	7/30/2007	1557.46	208.85	1348.61
	10/15/2007	1557.46	209.23	1348.23
	1/14/2008	1557.46	209.46	1348.00
	3/31/2008	1557.46	209.31	1348.15
	4/29/2008	1557.46	209.31	1348.15
	5/27/2008	1557.46	209.42	1348.04
	6/27/2008	1557.46	209.63	1347.83
	7/28/2008	1557.46	209.58	1347.88
	8/29/2008	1557.46	209.58	1347.88
	9/20/2008	1557.46	209.50	1347.96
	10/14/2008	1557.46	209.40	1348.06
	11/21/2008	1557.46	209.41	1348.05
	12/15/2008	1557.46	209.50	1347.96
	1/12/2009	1557.46	209.46	1348.00
	2/16/2009	1557.46	209.52	1347.94
	3/17/2009	1557.46	209.48	1347.98
	4/13/2009	1557.46	209.45	1348.01
	5/20/2009	1557.46	209.79	1347.67
	6/15/2009	1557.46	209.64	1347.82
	7/6/2009	1557.46	209.66	1347.80
	8/13/2009	1557.46	209.75	1347.71
	9/28/2009	1560.91	213.59	1347.32
	10/27/2009	1560.91	213.61	1347.30
	11/25/2009	1560.91	213.94	1346.97
	12/18/2009	1560.91	213.99	1346.92
1/18/2010	1560.91	214.11	1346.80	
6/8/2010	1560.91	213.38	1347.53	
6/22/2010	1560.91	213.38	1347.53	
2/23/2011	1560.91	213.34	1347.57	
3/22/2011	1560.91	213.39	1347.52	
4/25/2011	1560.91	213.33	1347.58	

Appendix C
Historic Water Level Data
UPCO and Private Wells

Well Identification	Date of Measurement	Measuring Point Elevation (ft amsl)	Depth to Water from Measuring Point (ft)	Groundwater Elevation (ft amsl)
MW-12 (cont.)	5/27/2011	1560.91	212.37	1348.54
	6/30/2011	1560.91	213.41	1347.50
	7/25/2011	1560.91	213.67	1347.24
	9/2/2011	1560.91	213.46	1347.45
	9/27/2011	1560.91	213.43	1347.48
	10/24/2011	1560.91	213.52	1347.39
	11/28/2011	1560.91	213.52	1347.39
	12/27/2011	1560.91	213.54	1347.37
MW-13	8/29/2008	1595.77	246.82	1348.95
	9/20/2008	1595.77	246.75	1349.02
	10/14/2008	1595.77	246.75	1349.02
	11/21/2008	1595.77	246.78	1348.99
	12/15/2008	1595.77	246.83	1348.94
	1/12/2009	1595.77	246.79	1348.98
	2/16/2009	1595.77	246.81	1348.96
	3/17/2009	1595.77	246.80	1348.97
	4/13/2009	1595.77	246.80	1348.97
	5/20/2009	1595.77	246.90	1348.87
	6/15/2009	1595.77	246.95	1348.82
	7/6/2009	1595.77	246.89	1348.88
	8/12/2009	1595.77	246.98	1348.79
	9/28/2009	1599.52	250.74	1348.78
	10/27/2009	1599.52	250.71	1348.81
	11/25/2009	1599.52	250.98	1348.54
	12/18/2009	1599.52	251.00	1348.52
	1/18/2010	1599.52	251.13	1348.39
	6/8/2010	1599.52	250.83	1348.69
	6/22/2010	1599.52	250.87	1348.65
	2/23/2011	1599.52	250.82	1348.70
	3/22/2011	1599.52	250.86	1348.66
	4/26/2011	1599.52	250.82	1348.70
	5/27/2011	1599.52	250.82	1348.70
	6/30/2011	1599.52	250.92	1348.60
	7/25/2011	1599.52	251.22	1348.30
9/2/2011	1599.52	250.90	1348.62	
9/27/2011	1599.52	250.87	1348.65	
10/24/2011	1599.52	250.98	1348.54	
11/28/2011	1599.52	250.93	1348.59	
12/27/2011	1599.52	251.03	1348.49	
MW-14	8/29/2008	1602.48	263.25	1339.23
	9/20/2008	1602.48	263.38	1339.10
	10/14/2008	1602.48	263.69	1338.79
	11/21/2008	1602.48	264.15	1338.33

Appendix C
Historic Water Level Data
UPCO and Private Wells

Well Identification	Date of Measurement	Measuring Point Elevation (ft amsl)	Depth to Water from Measuring Point (ft)	Groundwater Elevation (ft amsl)
MW-14 (cont.)	12/15/2008	1602.48	264.02	1338.46
	1/12/2009	1602.48	263.57	1338.91
	2/16/2009	1602.48	263.66	1338.82
	3/17/2009	1602.48	264.03	1338.45
	4/13/2009	1602.48	264.08	1338.40
	5/20/2009	1602.48	264.55	1337.93
	6/15/2009	1602.48	264.65	1337.83
	7/6/2009	1602.48	264.89	1337.59
	8/12/2009	1602.48	265.10	1337.38
	9/28/2009	1602.48	265.59	1336.89
	10/27/2009	1602.48	265.78	1336.70
	11/25/2009	1602.48	266.72	1335.76
	12/18/2009	1602.48	265.98	1336.50
	1/18/2010	1602.48	266.03	1336.45
	6/8/2010	1602.48	266.04	1336.44
	6/22/2010	1602.48	266.49	1335.99
	2/23/2011	1602.48	266.62	1335.86
	3/22/2011	1602.48	266.57	1335.91
	4/25/2011	1602.48	266.85	1335.63
	5/27/2011	1602.48	267.75	1334.73
	6/30/2011	1602.48	267.44	1335.04
	7/25/2011	1602.48	267.81	1334.67
	9/2/2011	1602.48	268.00	1334.48
	9/27/2011	1602.48	268.12	1334.36
10/24/2011	1602.48	268.11	1334.37	
11/28/2011	1602.48	268.04	1334.44	
12/27/2011	1602.48	268.10	1334.38	
MW-15	8/29/2008	1600.48	261.95	1338.53
	9/20/2008	1600.48	262.09	1338.39
	10/14/2008	1600.48	262.18	1338.30
	11/21/2008	1600.48	262.45	1338.03
	12/15/2008	1600.48	262.58	1337.90
	1/12/2009	1600.48	262.51	1337.97
	2/16/2009	1600.48	262.53	1337.95
	3/17/2009	1600.48	262.60	1337.88
	4/13/2009	1600.48	262.72	1337.76
	5/20/2009	1600.48	262.96	1337.52
	6/15/2009	1600.48	263.03	1337.45
	7/6/2009	1600.48	263.19	1337.29
	8/12/2009	1600.48	263.36	1337.12
	9/28/2009	1600.48	263.69	1336.79
	10/27/2009	1600.48	263.80	1336.68
11/25/2009	1600.48	264.20	1336.28	

Appendix C
Historic Water Level Data
UPCO and Private Wells

Well Identification	Date of Measurement	Measuring Point Elevation (ft amsl)	Depth to Water from Measuring Point (ft)	Groundwater Elevation (ft amsl)
MW-15 (cont.)	12/18/2009	1600.48	264.28	1336.20
	1/18/2010	1600.48	264.39	1336.09
	6/8/2010	1600.48	264.50	1335.98
	6/22/2010	1600.48	264.68	1335.80
	2/23/2011	1600.48	265.33	1335.15
	3/22/2011	1600.48	265.45	1335.03
	4/25/2011	1600.48	265.35	1335.13
	5/27/2011	1600.48	265.84	1334.64
	6/30/2011	1600.48	265.90	1334.58
	7/25/2011	1600.48	266.19	1334.29
	9/2/2011	1600.48	266.25	1334.23
	9/27/2011	1600.48	266.27	1334.21
	10/24/2011	1600.48	266.51	1333.97
	11/28/2011	1600.48	266.58	1333.90
12/27/2011	1600.48	266.70	1333.78	
MW-16	4/25/2011	1585.36	253.89	1331.47
	5/27/2011	1585.36	254.05	1331.31
	6/30/2011	1585.36	254.26	1331.10
	7/25/2011	1585.36	254.35	1331.01
	9/2/2011	1585.36	254.40	1330.96
	9/27/2011	1585.36	254.38	1330.98
	10/24/2011	1585.36	254.59	1330.77
	11/28/2011	1585.36	255.64	1329.72
12/27/2011	1585.36	254.84	1330.52	
MW-17	4/25/2011	1560.72	206.72	1354.00
	5/27/2011	1560.72	206.78	1353.94
	6/30/2011	1560.72	206.92	1353.80
	7/25/2011	1560.72	207.18	1353.54
	9/2/2011	1560.72	206.93	1353.79
	9/27/2011	1560.72	207.06	1353.66
	10/24/2011	1560.72	207.15	1353.57
	11/28/2011	1560.72	207.24	1353.48
12/27/2011	1560.72	207.33	1353.39	
MW-18	9/28/2009	1533.53	181.20	1352.33
	10/7/2009	1533.53	137.39	1396.14
	10/27/2009	1533.53	132.18	1401.35
	11/25/2009	1533.53	131.17	1402.36
	12/18/2009	1533.53	130.11	1403.42
	1/18/2010	1533.53	129.84	1403.69
	6/8/2010	1533.53	129.81	1403.72
	6/22/2010	1533.53	129.85	1403.68
	2/23/2011	1533.53	130.17	1403.36
	3/22/2011	1533.53	130.20	1403.33

Appendix C
Historic Water Level Data
UPCO and Private Wells

Well Identification	Date of Measurement	Measuring Point Elevation (ft amsl)	Depth to Water from Measuring Point (ft)	Groundwater Elevation (ft amsl)
MW-18 (cont.)	4/25/2011	1533.53	130.99	1402.54
	5/27/2011	1533.53	130.70	1402.83
	6/30/2011	1533.53	130.61	1402.92
	7/25/2011	1533.53	130.84	1402.69
	9/2/2011	1533.53	130.99	1402.54
	9/27/2011	1533.53	130.91	1402.62
	10/24/2011	1533.53	130.88	1402.65
	11/28/2011	1533.53	131.00	1402.53
	12/27/2011	1533.53	130.98	1402.55
MW-19	4/25/2011	1599.51	250.80	1348.71
	5/27/2011	1599.51	251.40	1348.11
	6/30/2011	1599.51	250.87	1348.64
	7/25/2011	1599.51	251.05	1348.46
	9/2/2011	1599.51	250.88	1348.63
	9/27/2011	1599.51	250.90	1348.61
	10/24/2011	1599.51	250.94	1348.57
	11/28/2011	1599.51	250.94	1348.57
	12/27/2011	1599.51	251.00	1348.51
PW-1	3/13/2008	1554.55	211.31	1343.24
	4/29/2008	1554.55	240.30	1314.25
	5/27/2008	1554.55	280.72	1273.83
	6/27/2008	1554.55	220.65	1333.90
	8/29/2008	1554.55	213.00	1341.55
	9/3/2008	1554.55	211.54	1343.01
	9/20/2008	1554.55	NM	NM
	10/14/2008	1554.55	210.93	1343.62
	11/21/2008	1554.55	270.60	1283.95
	12/15/2008	1554.55	305.95	1248.60
	1/12/2009	1554.55	223.60	1330.95
	2/16/2009	1554.55	211.37	1343.18
	3/17/2009	1554.55	211.00	1343.55
	4/13/2009	1554.55	209.26	1345.29
	5/20/2009	1554.55	214.21	1340.34
	6/15/2009	1554.55	209.89	1344.66
	8/12/2009	1554.55	262.80	1291.75
	9/28/2009	1554.55	376.20	1178.35
	10/27/2009	1554.55	219.60	1334.95
	11/25/2009	1554.55	345.45	1209.10
	12/18/2009	1554.55	355.78	1198.77
	1/18/2010	1554.55	213.10	1341.45
	6/8/2010	1554.55	208.96	1345.59
6/22/2010	1554.55	208.89	1345.66	
9/27/2011	1554.55	209.02	1345.53	

Appendix C
Historic Water Level Data
UPCO and Private Wells

Well Identification	Date of Measurement	Measuring Point Elevation (ft amsl)	Depth to Water from Measuring Point (ft)	Groundwater Elevation (ft amsl)
PW-1 (cont.)	10/24/2011	1554.55	209.03	1345.52
	11/28/2011	1554.55	209.20	1345.35
	12/27/2011	1554.55	209.12	1345.43
18 East Yearling	3/30/07	1596.79	NA	NA
	5/25/07	1596.79	NA	NA
	6/4/07	1596.79	NA	NA
	6/20/2007	1596.79	NA	NA
	7/30/2007	1596.79	NA	NA
	8/2/2007	1596.79	351.13	1245.66
	8/30/2007	1596.79	346.66	1250.13
	9/12/2007	1596.79	365.49	1231.30
	9/24/2007	1596.79	358.82	1237.97
	9/27/2007	1596.79	365.22	1231.57
	10/15/2007	1596.79	362.45	1234.34
	11/19/2007	1596.79	363.82	1232.97
	12/11/2007	1596.79	360.47	1236.32
	1/14/2008	1596.79	354.74	1242.05
	3/13/2008	1596.79	358.96	1237.83
	5/16/2008	1596.79	350.67	1246.12
	7/28/2008	1596.79	below transducer	NM
	8/29/2008	1596.79	258.19	1338.60
	10/14/2008	1596.79	362.65	1234.14
	12/3/2008	1596.79	358.64	1238.15
	12/15/2008	1596.79	358.88	1237.91
	1/12/2009	1596.79	357.04	1239.75
	2/16/2009	1596.79	355.66	1241.13
	3/17/2009	1596.79	358.48	1238.31
	4/13/2009	1596.79	369.10	1227.69
	5/20/2009	1596.79	399.30	1197.49
	6/15/2009	1596.79	372.35	1224.44
	7/6/2009	1596.79	377.89	1218.90
	8/12/2009	1596.79	399.60	1197.19
	9/28/2009	1596.79	dry	dry
	10/27/2009	1596.79	dry	dry
	11/25/2009	1596.79	dry	dry
	12/18/2009	1596.79	392.78	1204.01
1/18/2010	1596.79	dry	dry	
6/8/2010	1596.79	NA	NA	
6/22/2010	1596.79	NA	NA	
2/23/2011	1596.79	NA	NA	

Appendix C
Historic Water Level Data
UPCO and Private Wells

Well Identification	Date of Measurement	Measuring Point Elevation (ft amsl)	Depth to Water from Measuring Point (ft)	Groundwater Elevation (ft amsl)
218 East Yearling	3/30/2007	1617.01	325.20	1291.81
	5/25/2007	1617.01	313.19	1303.82
	6/4/2007	1617.01	325.92	1291.09
	6/20/2007	1617.01	317.50	1299.51
	7/30/2007	1617.01	NA	NA
	8/2/2007	1617.01	NA	NA
	8/30/2007	1617.01	313.80	1303.21
	9/12/2007	1617.01	334.26	1282.75
	9/24/2007	1617.01	NA	NA
	9/27/2007	1617.01	317.38	1299.63
	10/15/2007	1617.01	323.81	1293.20
	11/19/2007	1617.01	322.32	1294.69
	12/11/2007	1617.01	315.75	1301.26
	1/14/2008	1617.01	313.32	1303.69
	3/13/2008	1617.01	obstruction	NM
	5/16/2008	1617.01	344.85	1272.16
	7/28/2008	1617.01	316.35	1300.66
	8/29/2008	1617.01	329.46	1287.55
	10/14/2008	1617.01	340.00	1277.01
	12/3/2008	1617.01	317.34	1299.67
	12/15/2008	1617.01	313.89	1303.12
	1/12/2009	1617.01	310.40	1306.61
	2/16/2009	1617.01	314.42	1302.59
	3/17/2009	1617.01	311.95	1305.06
	4/13/2009	1617.01	311.63	1305.38
	5/20/2009	1617.01	332.30	1284.71
	6/15/2009	1617.01	321.86	1295.15
	7/6/2009	1617.01	325.00	1292.01
	8/12/2009	1617.01	325.93	1291.08
	9/28/2009	1617.01	323.18	1293.83
	10/27/2009	1617.01	324.80	1292.21
	11/25/2009	1617.01	322.86	1294.15
	12/18/2009	1617.01	320.08	1296.93
	1/18/2010	1617.01	327.30	1289.71
	6/8/2010	1617.01	NA	NA
	6/22/2010	1617.01	NA	NA
	2/23/2011	1617.01	336.65	1280.36
	4/25/2011	1596.79	321.91	1274.88
	5/27/2011	1596.79	322.90	1273.89
	6/30/2011	1596.79	336.25	1260.54
7/25/2011	1596.79	335.35	1261.44	
9/27/2011	1596.79	330.03	1266.76	
10/24/2011	1596.79	331.12	1265.67	

Appendix C
Historic Water Level Data
UPCO and Private Wells

Well Identification	Date of Measurement	Measuring Point Elevation (ft amsl)	Depth to Water from Measuring Point (ft)	Groundwater Elevation (ft amsl)
218 East Yearling (cont.)	11/28/2011	1596.79	327.42	1269.37
	12/27/2011	1596.79	NA	NA
520 East Yearling	3/30/2007	1635.71	293.60	1342.11
	5/25/2007	1635.71	293.68	1342.03
	6/4/2007	1635.71	292.33	1343.38
	6/20/2007	1635.71	292.54	1343.17
	7/30/2007	1635.71	293.69	1342.02
	8/2/2007	1635.71	NA	NA
	8/30/2007	1635.71	292.04	1343.67
	9/12/2007	1635.71	294.56	1341.15
	9/24/2007	1635.71	294.59	1341.12
	9/27/2007	1635.71	295.18	1340.53
	10/15/2007	1635.71	294.94	1340.77
	11/19/2007	1635.71	295.66	1340.05
	12/11/2007	1635.71	295.41	1340.30
	1/14/2008	1635.71	295.30	1340.41
	3/13/2008	1635.71	294.71	1341.00
	5/16/2008	1635.71	295.80	1339.91
	7/28/2008	1635.71	296.54	1339.17
	8/29/2008	1635.71	305.50	1330.21
	10/14/2008	1635.71	297.20	1338.51
	12/3/2008	1635.71	297.37	1338.34
	12/15/2008	1635.71	297.42	1338.29
	1/12/2009	1635.71	296.90	1338.81
	2/16/2009	1635.71	296.90	1338.81
	3/17/2009	1635.71	297.42	1338.29
	4/13/2009	1635.71	299.90	1335.81
	5/20/2009	1635.71	298.10	1337.61
	6/15/2009	1635.71	298.18	1337.53
	7/6/2009	1635.71	311.26	1324.45
	8/12/2009	1635.71	311.69	1324.02
	9/28/2009	1635.71	312.45	1323.26
	10/27/2009	1635.71	290.65	1345.06
	11/25/2009	1635.71	299.85	1335.86
12/18/2009	1635.71	299.38	1336.33	
1/18/2010	1635.71	299.30	1336.41	
6/8/2010	1635.71	300.29	1335.42	
6/22/2010	1635.71	300.39	1335.32	
2/23/2011	1635.71	300.58	1335.13	
4/25/2011	1635.71	NM	NM	
5/27/2011	1635.71	302.03	1333.68	
6/30/2011	1635.71	302.28	1333.43	
7/25/2011	1635.71	303.19	1332.52	

Appendix C
Historic Water Level Data
UPCO and Private Wells

Well Identification	Date of Measurement	Measuring Point Elevation (ft amsl)	Depth to Water from Measuring Point (ft)	Groundwater Elevation (ft amsl)
520 East Yearling (cont.)	10/24/2011	1635.71	303.45	1332.26
	11/28/2011	1635.71	303.25	1332.46

Note:

Measured depth to water and calculated groundwater elevations at private wells may not represent actual static water levels because these are active pumping wells, subject to frequent water level fluctuations.

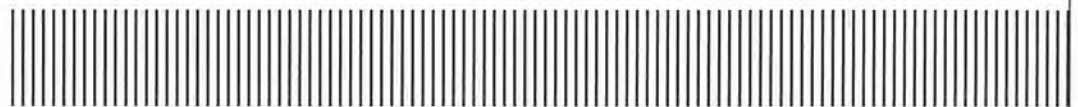
NM = Not measured

NA = No access

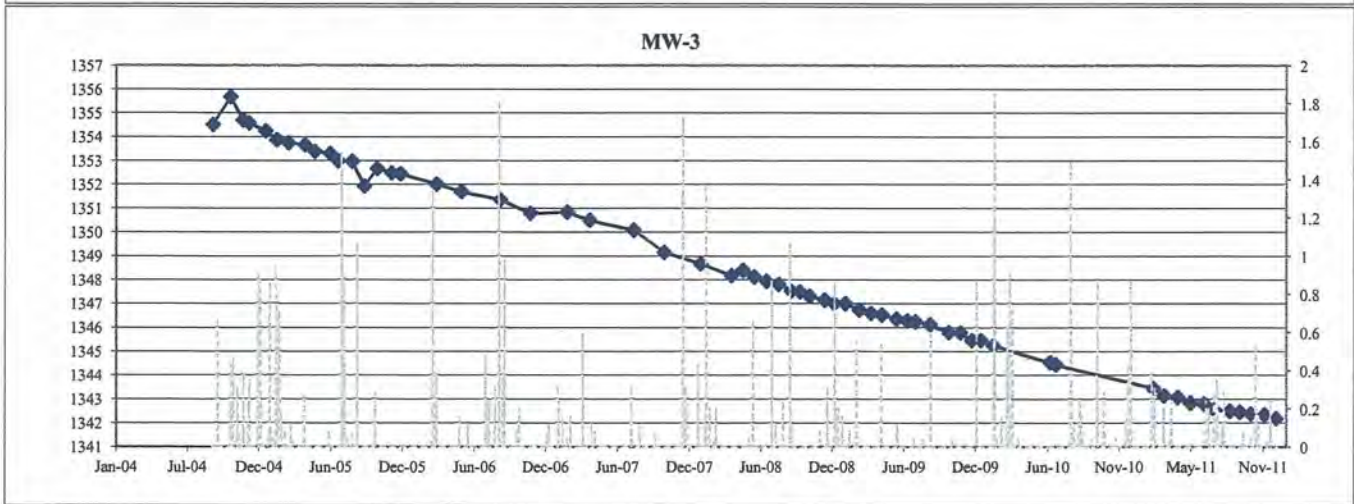
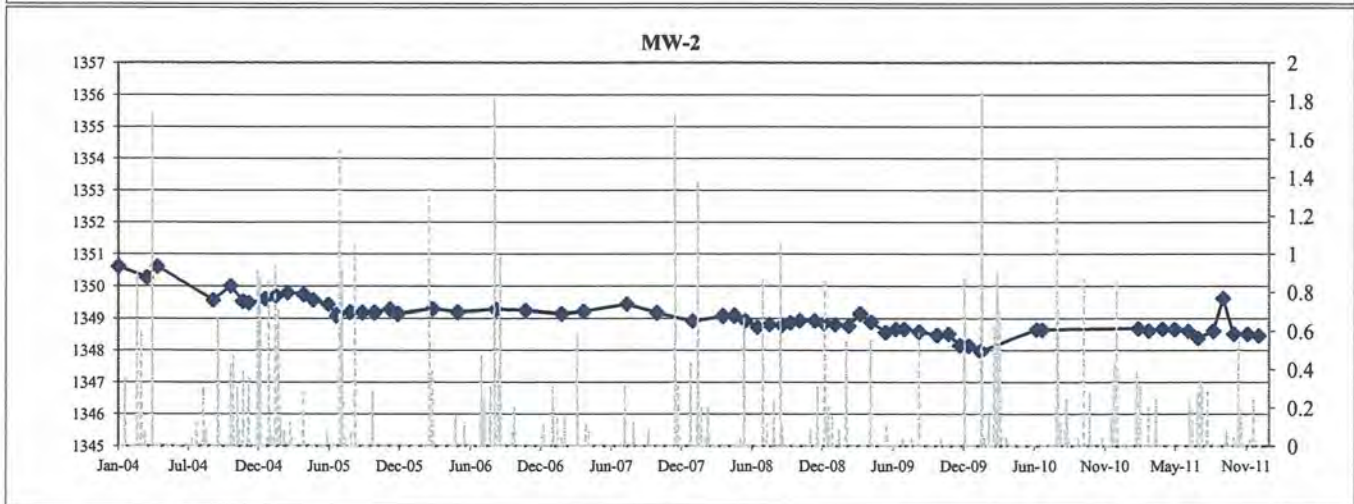
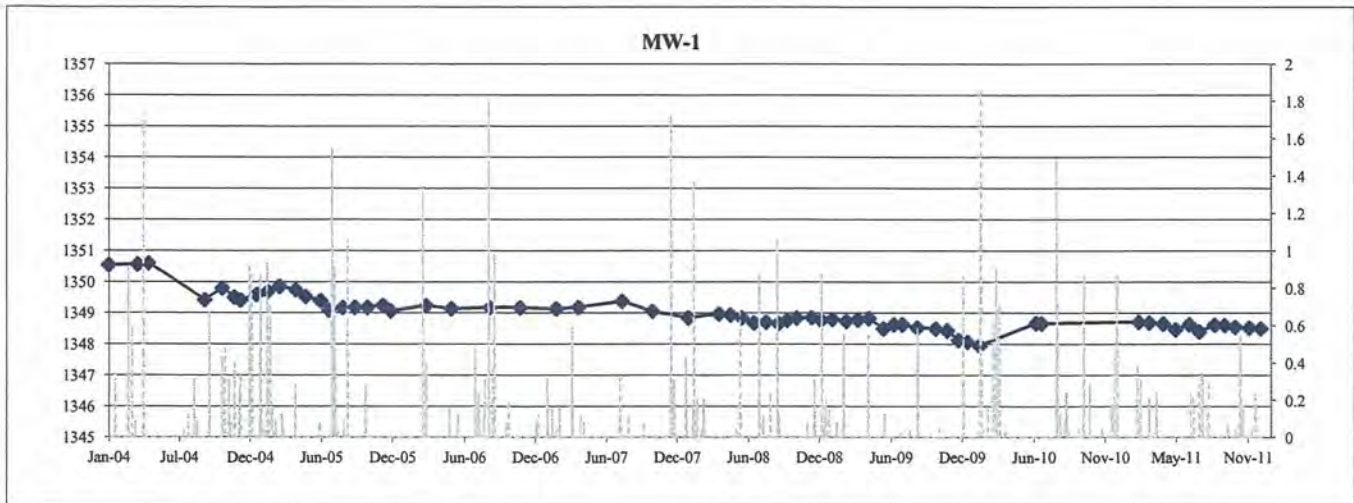
dry = Sounder did not detect water

Appendix D

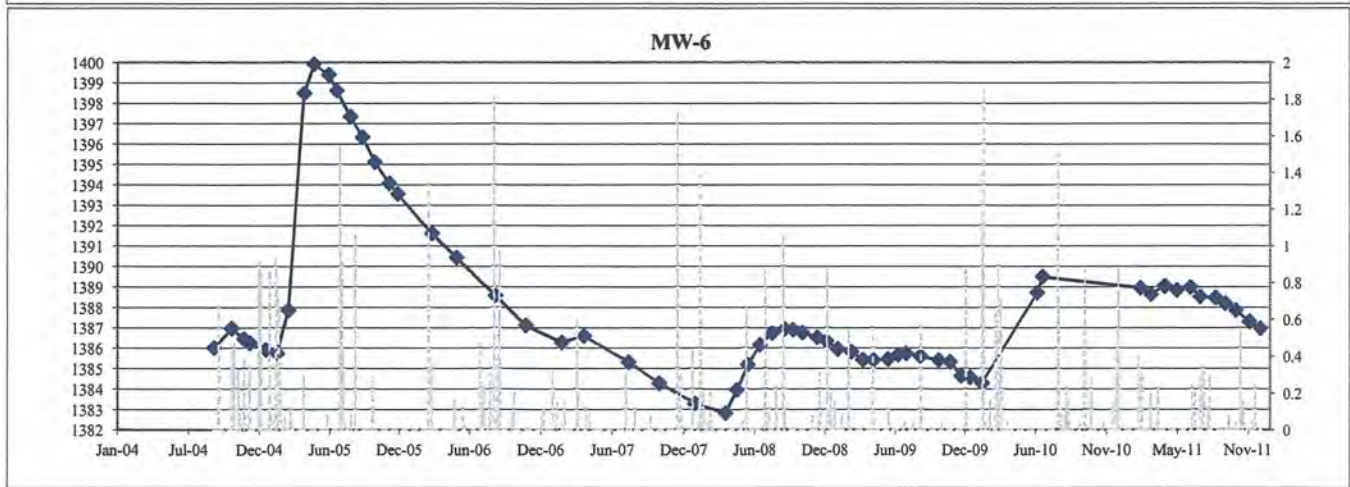
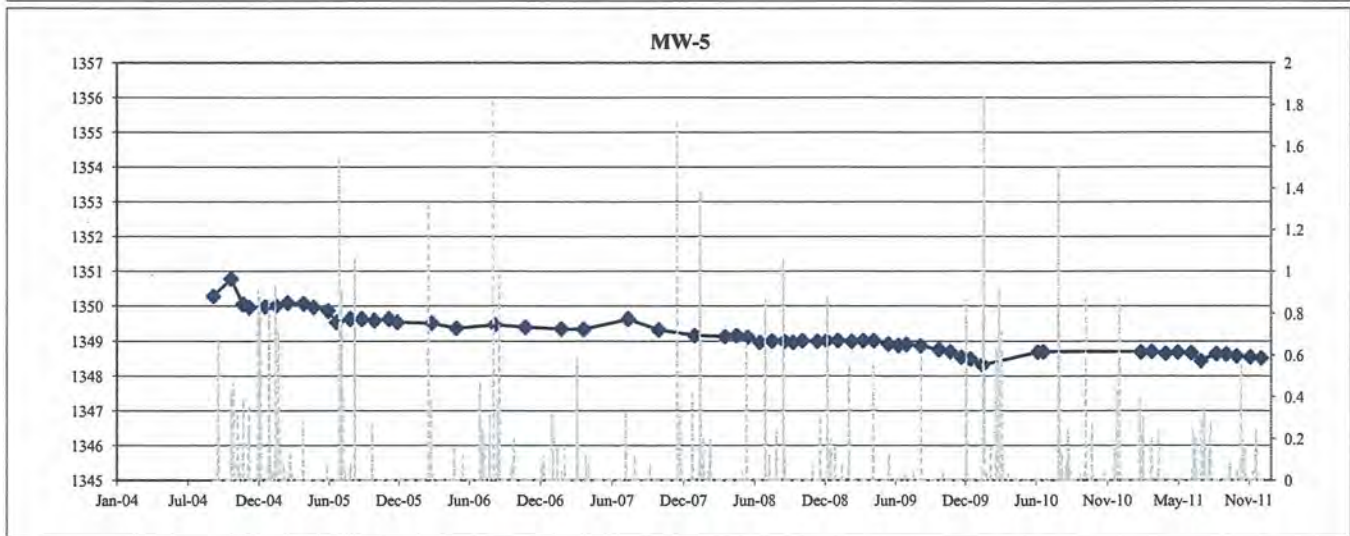
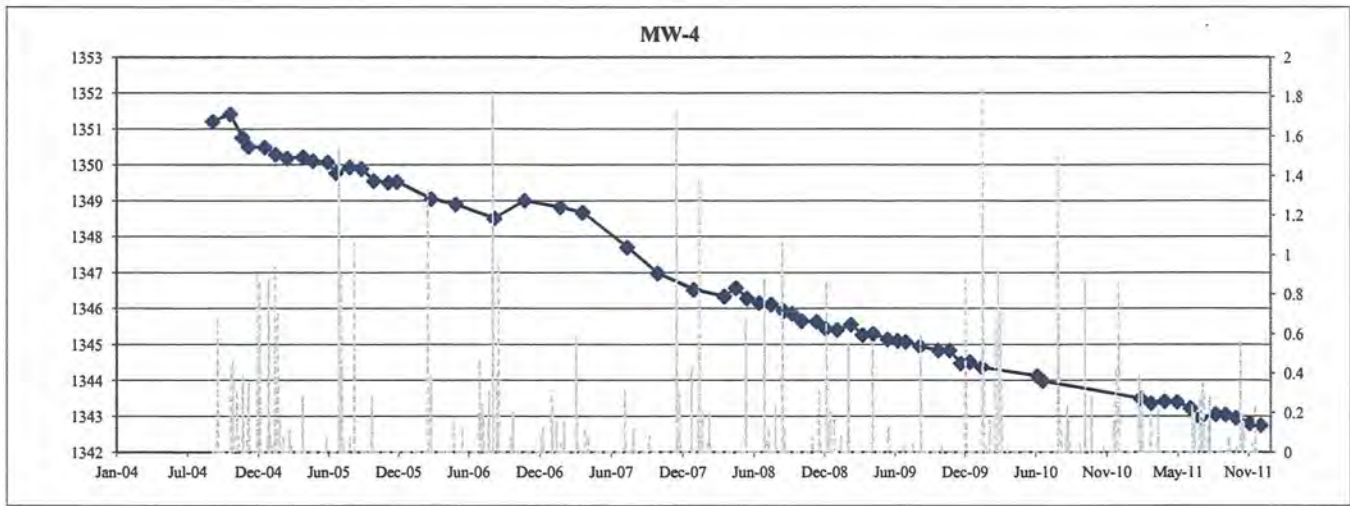
Monitor Well Hydrographs



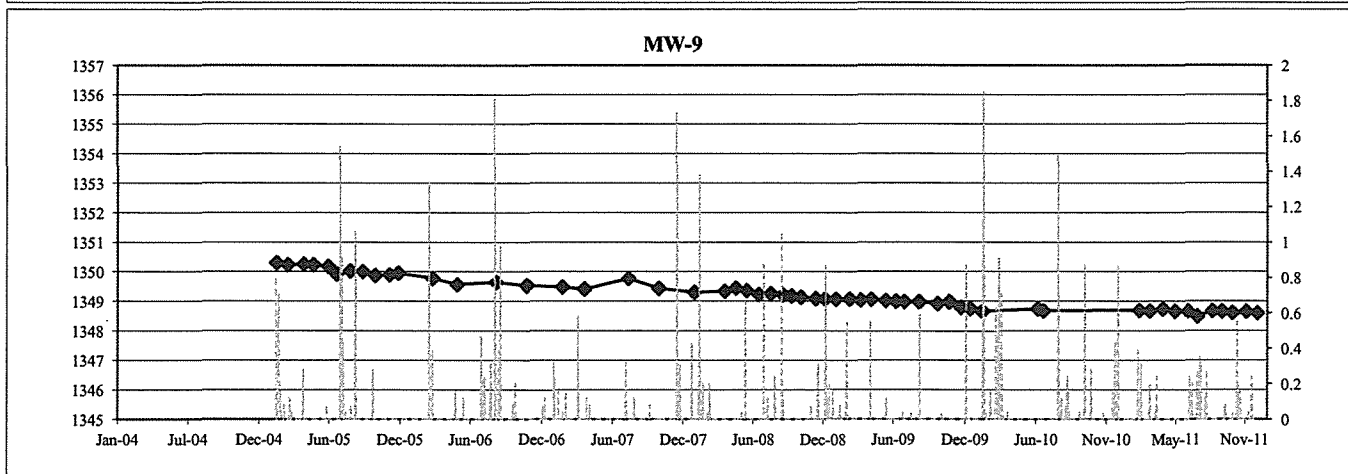
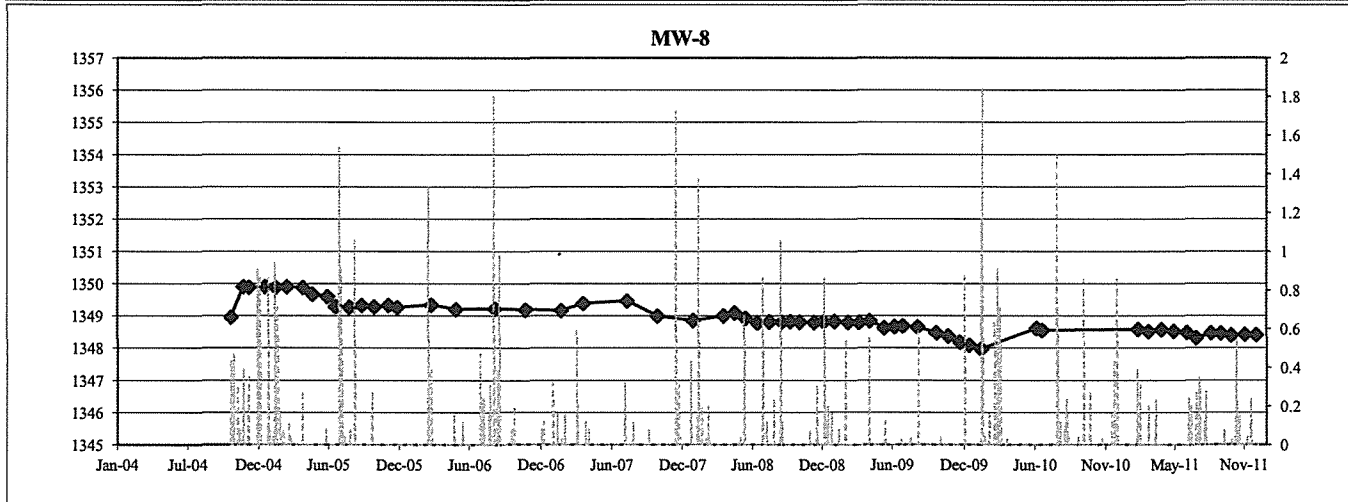
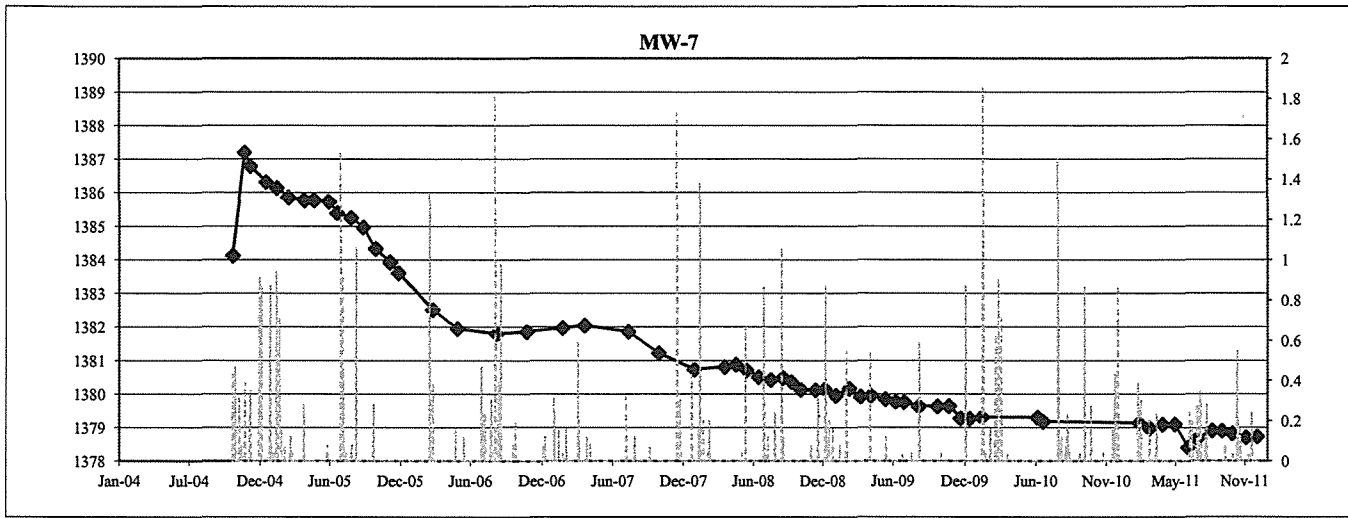
Appendix D Well Hydrographs (feet amsl) with Precipitation (in/day)



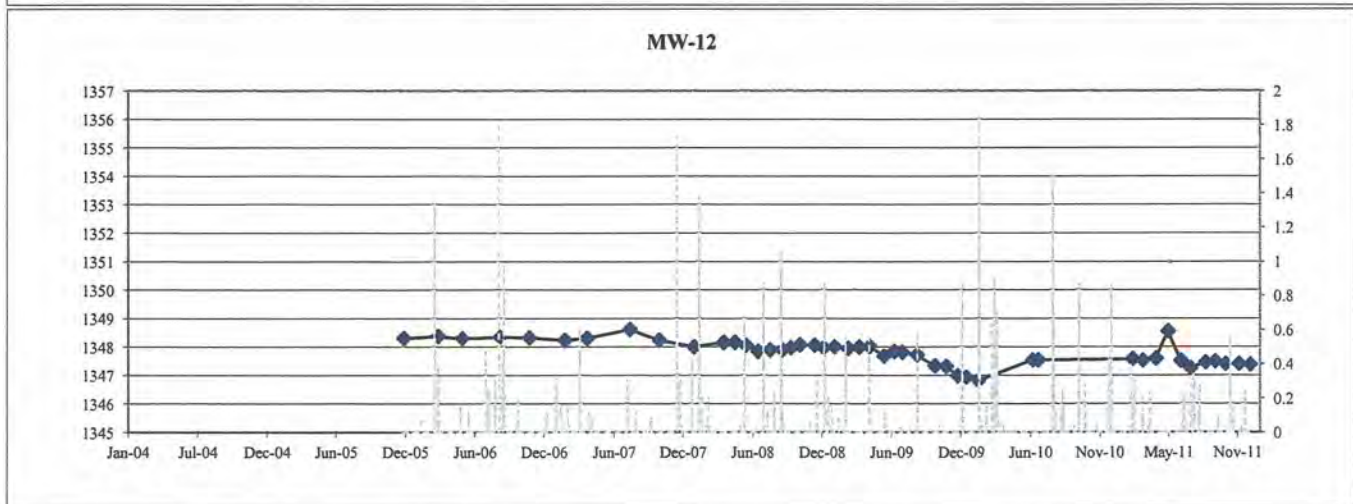
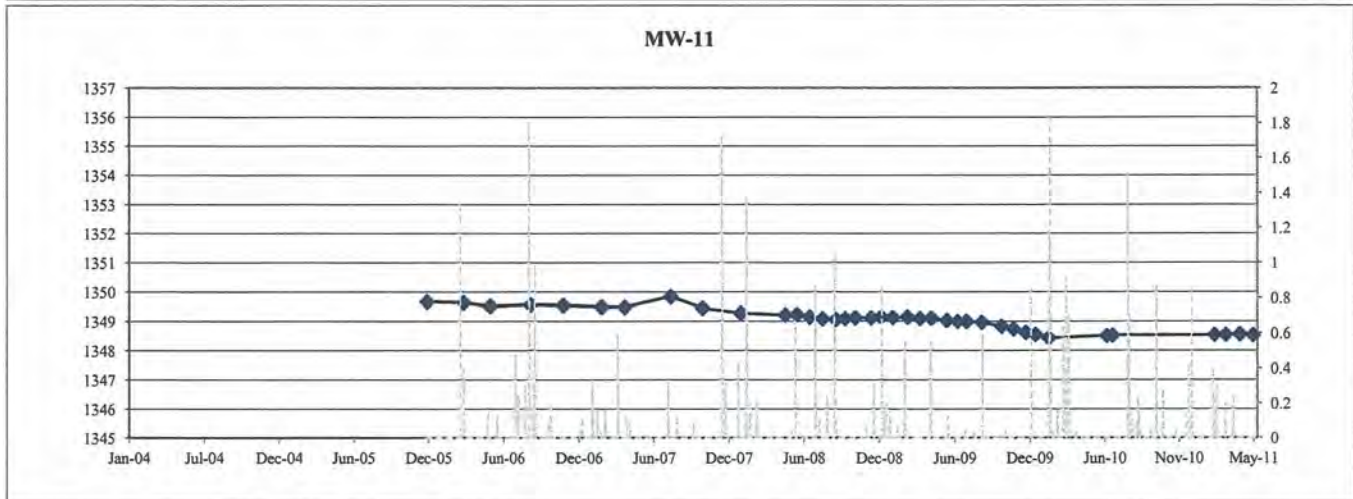
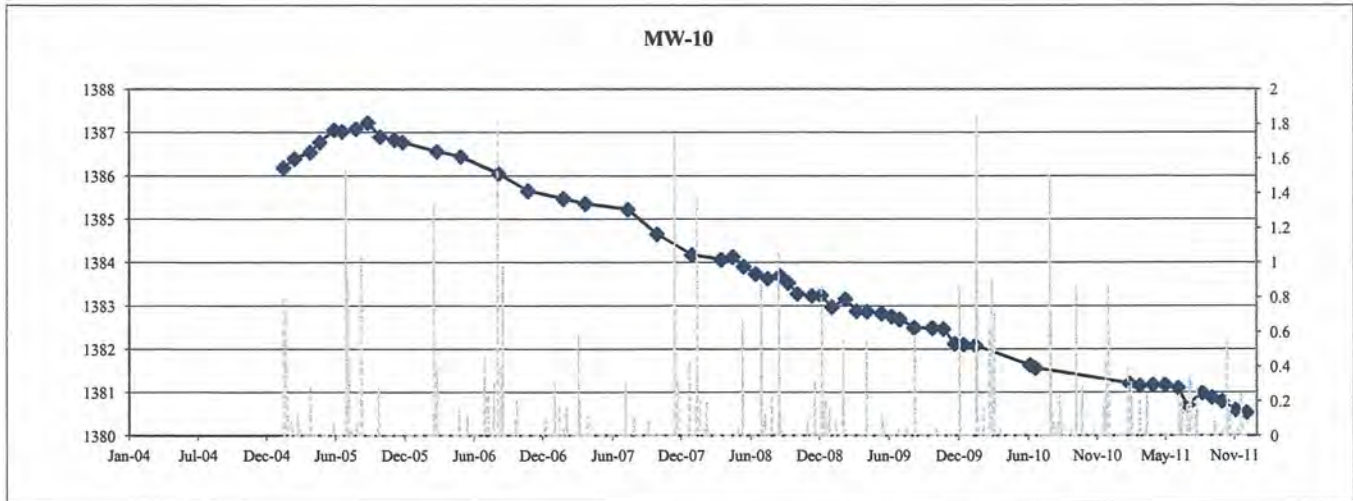
Appendix D Well Hydrographs (feet amsl) with Precipitation (in/day)



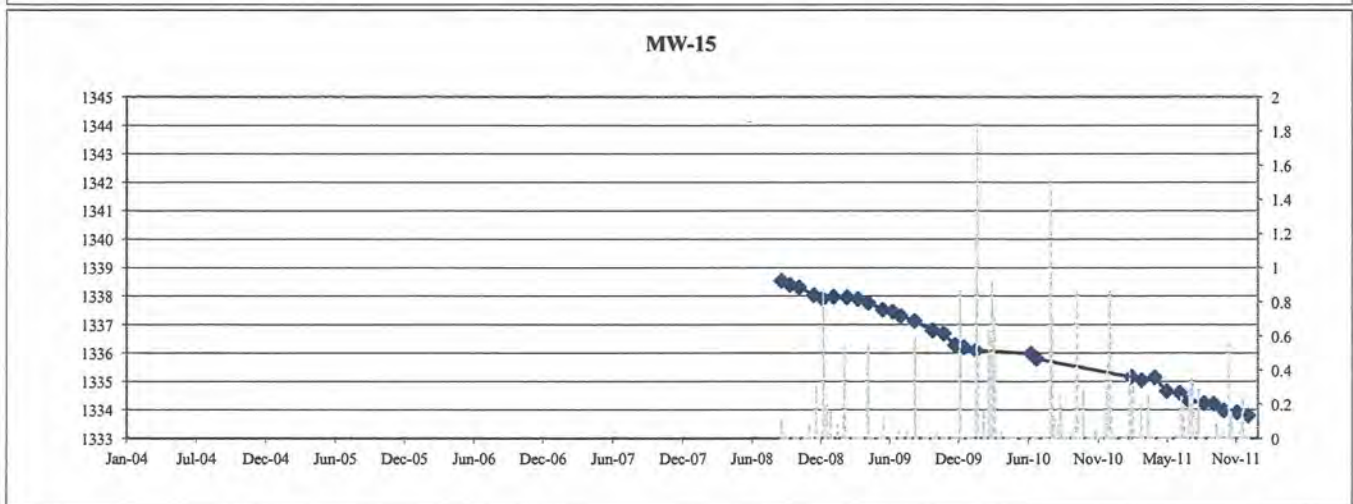
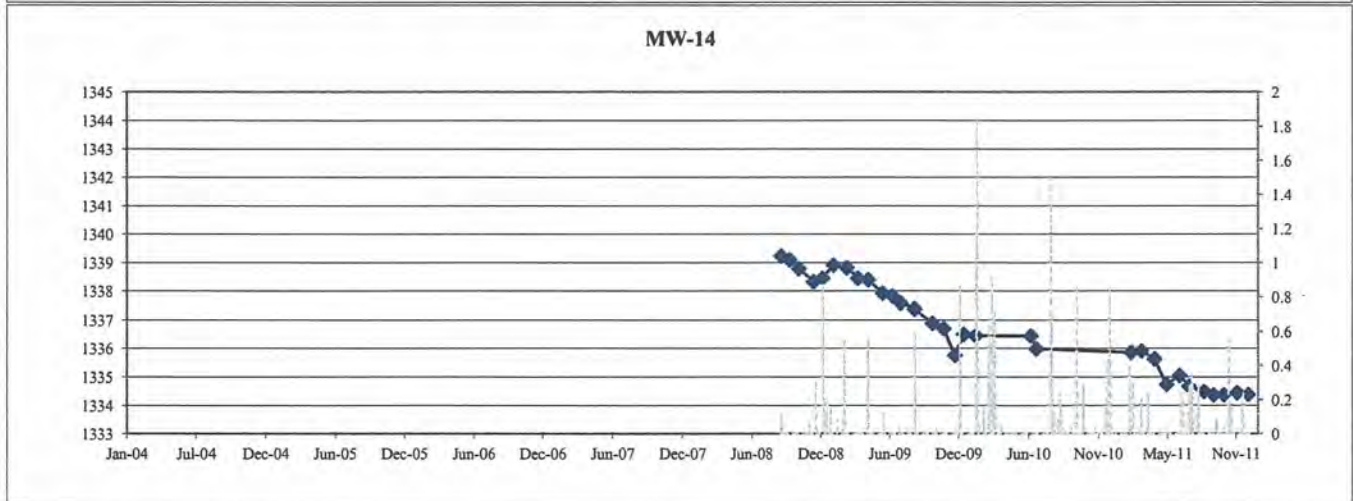
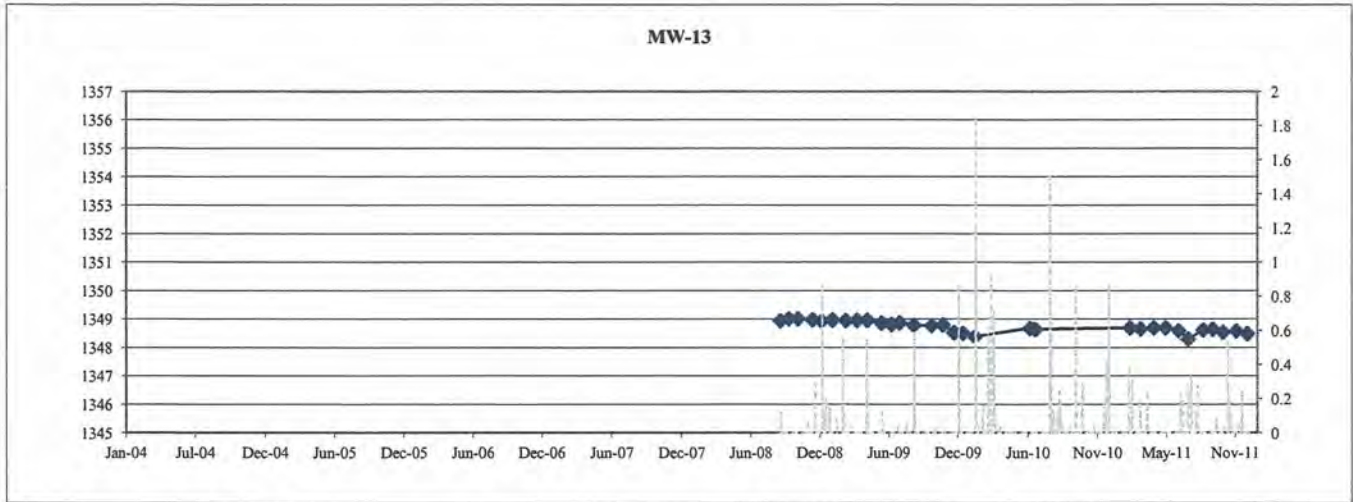
Appendix D Well Hydrographs (feet amsl) with Precipitation (in/day)



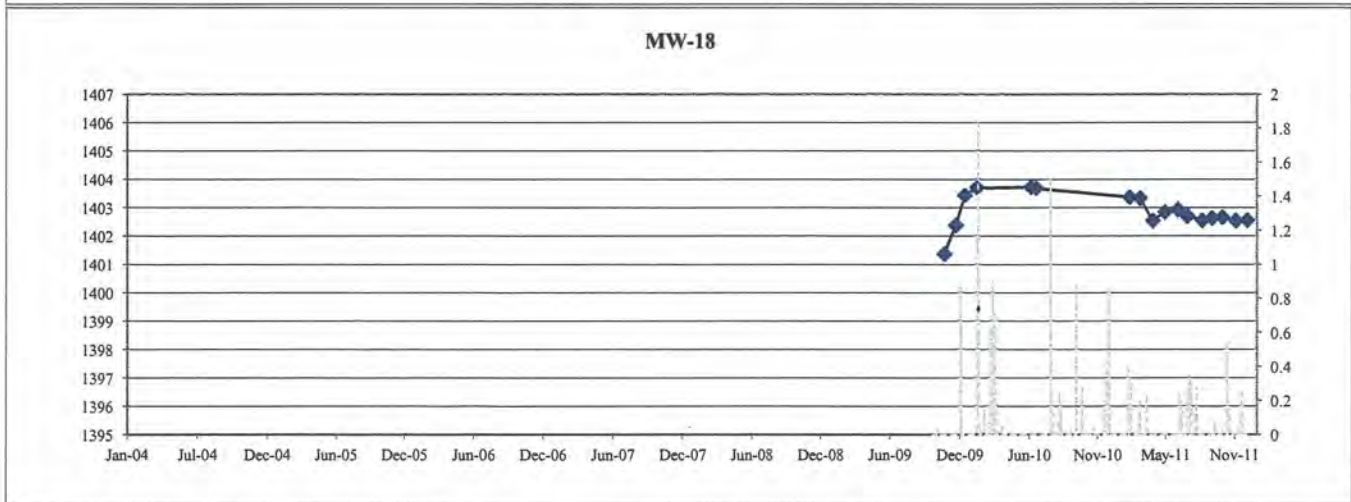
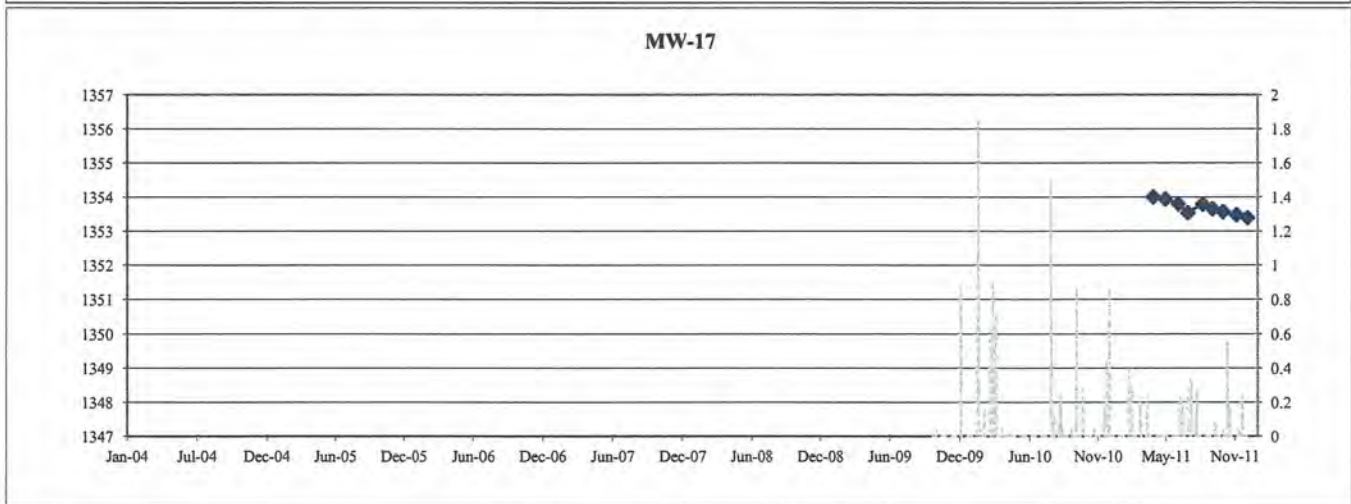
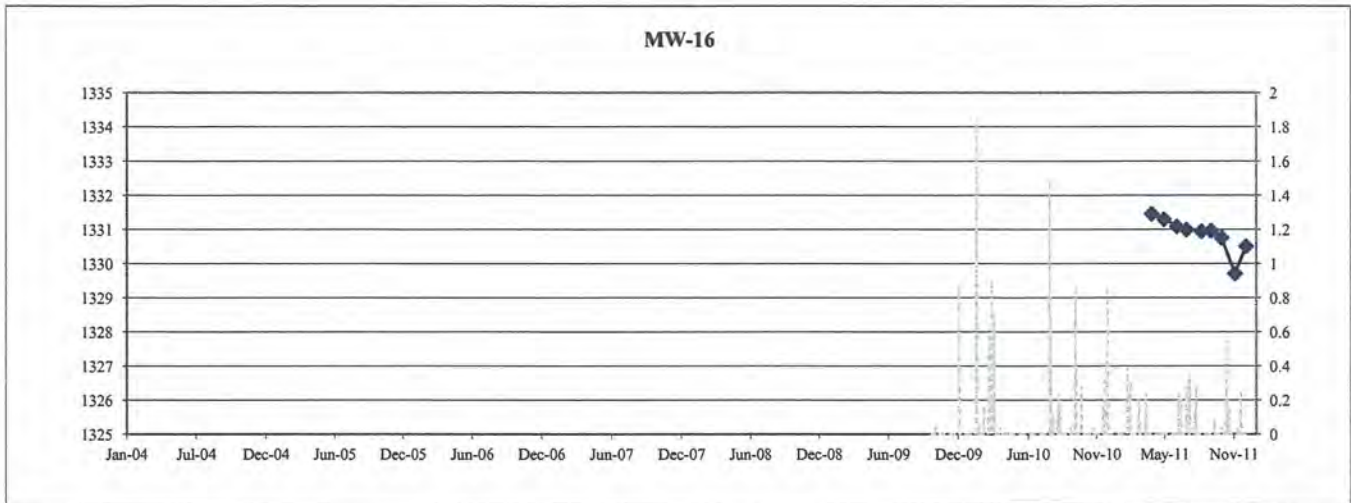
Appendix D Well Hydrographs (feet amsl) with Precipitation (in/day)



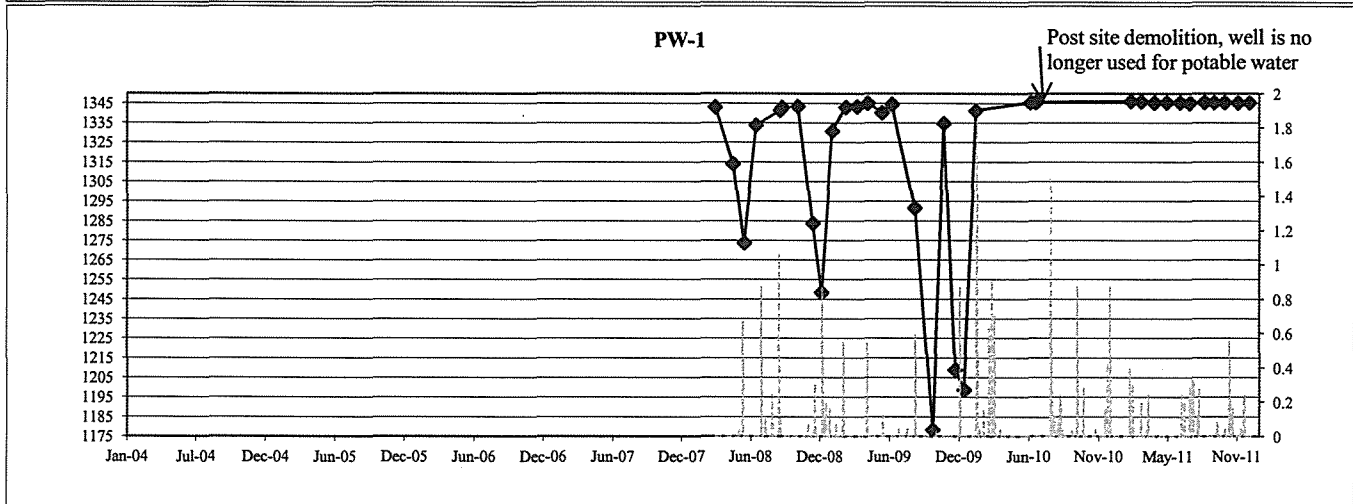
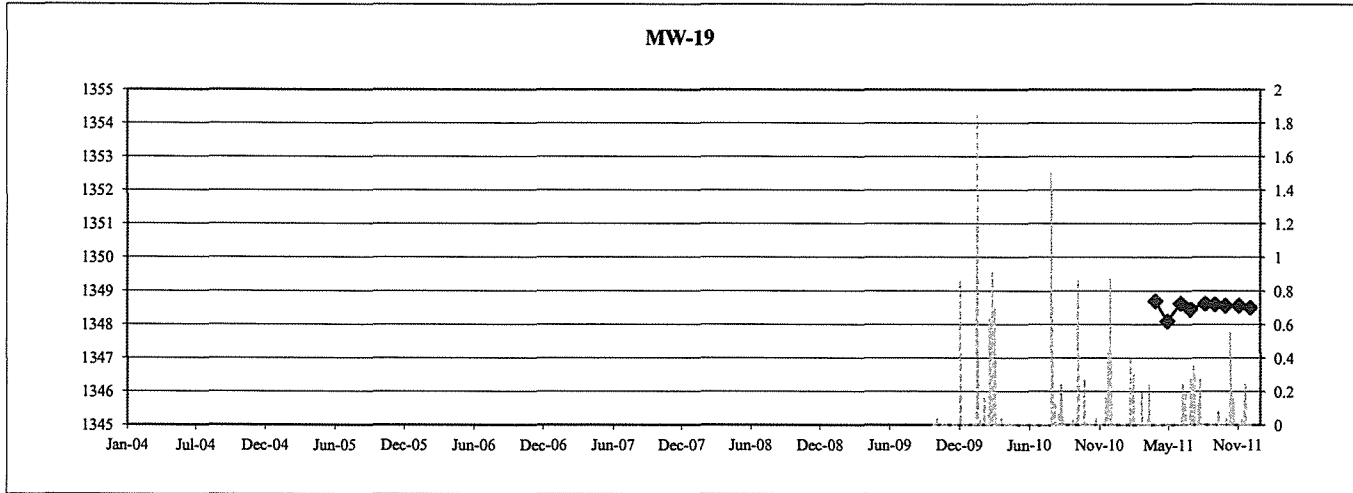
Appendix D Well Hydrographs (feet amsl) with Precipitation (in/day)



Appendix D Well Hydrographs (feet amsl) with Precipitation (in/day)



Appendix D Well Hydrographs (feet amsl) with Precipitation (in/day)



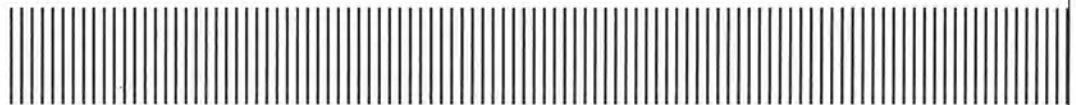
Appendix E

2011 Monitor Well Water Quality



Universal Propulsion Company
2011 Annual Monitoring Report

Appendix F
Historic Private Well Water Quality
Data



Appendix F
Historic Private Well Water Quality Data

Sample ID	Date Collected	Perchlorate	
		EPA Method 314.0 (ug/L)	EPA Method 332.0 (ug/L)
106 W. Yearling*	11/15/2006	<2.0	2.0
	12/28/2007	<2.0	1.3
	4/1/2008	<2.0	1.1
	10/15/2008	<2.0	0.75
	4/16/2009	<2.0	0.65
	7/26/2011	<2.0 UJ	0.57
122 W. Yearling	12/28/2007	<2.0	1.4
	4/1/2008	<2.0	1.2
	10/13/2008	<2.0	0.72
	4/16/2009	<2.0	0.67
	10/30/2009	<2.0	1.2
	6/17/2010	<2.0	0.65 J
	2/25/2011	<2.0	0.68
7/26/2011	<2.0 UJ	0.63	
16 E. Yearling	11/19/2004	<2.0	NA
	4/29/2005	<2.0	NA
	10/28/2005	<2.0	NA
	5/23/2006	<2.0	NA
	11/13/2006	<2.0	0.68
	10/16/2007	<2.0	0.64
	4/1/2008 **	<2.0	2.6
	4/1/2008	<2.0	2.9
	10/15/2008	<2.0	0.77
	4/17/2009	<2.0	0.63
	10/30/2009	<2.0	1.0
	6/17/2010	<2.0	0.58 J
	2/24/2011	<2.0	1.8
	7/26/2011 **	<2.0 UJ	0.65
7/26/2011	2.0 J	2.1	
18 E. Yearling***	10/27/2005	<2.0	NA
	5/23/2006	<2.0	NA
	11/14/2006	<2.0	0.94
	4/4/2007	<2.0	0.98
	10/16/2007	<2.0	0.77
	4/1/2008	<2.0	1.0
	10/15/2008	<2.0	1.1
	4/16/2009	<2.0	0.86
	10/30/2009	<2.0	1.1
	6/17/2010	<2.0	0.81 J
	2/23/2011	<2.0	0.00099
204 E. Yearling	10/27/2005	<2.0	NA
	4/16/2009	<2.0	0.64
	10/30/2009	<2.0	1.3
	6/17/2010	<2.0	0.62 J
	2/23/2011	<2.0	0.00089
	7/26/2011	<2.0 UJ	0.72
218 E. Yearling	11/19/2004	<2.0	NA
	10/28/2005	<2.0	NA
	5/23/2006	<2.0	NA
	11/14/2006	<2.0	0.68

Appendix F
Historic Private Well Water Quality Data

Sample ID	Date Collected	Perchlorate	
		EPA Method 314.0 (ug/L)	EPA Method 332.0 (ug/L)
218 E. Yearling (cont.)	4/4/2007	<2.0	0.67
	10/16/2007	<2.0	NA
	4/1/2008	<2.0	1.3
	10/15/2008	<2.0	0.80
	10/15/2008 **	<2.0	0.73
	4/16/2009	<2.0	0.68
	10/30/2009	<2.0	1.2
	2/23/2011	<2.0	0.0010
25825 N. 1st Place	7/26/2011	<2.0 UJ	0.69
	11/17/2004	<2.0	NA
	4/28/2005	<2.0	NA
	10/28/2005	<2.0	NA
	5/23/2006	<2.0	NA
	11/14/2006	<2.0	1.0
	4/4/2007	<2.0	0.93
	10/16/2007	<2.0	0.89
	4/1/2008	<2.0	1.1
	10/15/2008	<2.0	0.97
	4/16/2009	<2.0	0.89
	10/30/2009	<2.0	1.2
	6/16/2010	<2.0	0.89
	2/24/2011	<2.0	1.0
7/27/2011	<2.0 UJ	0.67	
25903 N. 2nd St***	11/19/2004	<2.0	NA
	10/28/2005	<2.0	NA
	5/23/2006	<2.0	NA
	11/14/2006	<2.0	0.78
	4/4/2007	<2.0	0.76
	4/1/2008	2.2	3.1
	10/15/2008	<2.0	0.84
	4/16/2009	<2.0	0.88
	10/30/2009	<2.0	1.3
	6/17/2010	<2.0	0.65 J
2/24/2011	<2.0	0.88	
412 E. Yearling	11/19/2004	<2.0	NA
	4/29/2005	<2.0	NA
	10/28/2005	<2.0	NA
	5/23/2006	<2.0	NA
	4/1/2008	<2.0	2.1
	10/15/2008	<2.0	1.5
	4/16/2009	<2.0	1.1
	10/30/2009	<2.0	1.5
	6/17/2010	<2.0	1.0 J
	2/25/2011	<2.0	1.3
7/27/2011	<2.0 UJ	1.3	
424 E. Yearling	1/19/2008	<2.0	1.2
	4/1/2008	<2.0	2.2
	10/15/2008	<2.0	1.6
	4/16/2009	<2.0	1.2
	10/30/2009	<2.0	1.8

Appendix F
Historic Private Well Water Quality Data

Sample ID	Date Collected	Perchlorate	
		EPA Method 314.0 (ug/L)	EPA Method 332.0 (ug/L)
424 E. Yearling (cont.)	6/17/2010	<2.0	1.1 J
	2/25/2011	<2.0	1.7
	7/26/2011	<2.0 UJ	1.7
520 E. Yearling	11/17/2004	<2.0	NA
	4/28/2005	<2.0	NA
	5/23/2006	<2.0	NA
	11/14/2006	<2.0	1.5
	4/4/2007	2.4	1.3
	10/16/2007	<2.0	1.4
	4/1/2008	<2.0	2.2
	10/15/2008	<2.0	1.3
	4/16/2009	<2.0	1.3
	10/30/2009	<2.0	1.9
	6/17/2010	<2.0	1.2 J
	2/23/2011	<2.0	0.0014
	7/26/2011	<2.0 UJ	1.4
	604/616 E. Yearling	11/17/2004	<2.0
4/29/2005		<2.0	NA
10/28/2005		<2.0	NA
5/23/2006		<2.0	NA
11/14/2006		<2.0	1.1
4/6/2007		<2.0	1.2
10/16/2007		<2.0	1.0
4/1/2008		<2.0	1.5
10/15/2008		<2.0	1.1
4/16/2009		<2.0	0.98
10/30/2009		<2.0	1.6
6/17/2010		<2.0	0.91 J
7/26/2011		<2.0 UJ	1.2
2/25/2011		<2.0	1.1
8 W. Yearling	12/28/2007	<2.0	1.2
	4/4/2008	<2.0	0.78
	10/15/2008	<2.0	1.1
	10/30/2009	<2.0	1.1
	6/17/2010	<2.0	0.62 J
	2/24/2011	<2.0	0.71
	7/26/2011	<2.0 UJ	0.74

Notes:

< = Analyte not detected above the listed laboratory reporting limit

J = Analyte was positively identified, however the result should be considered an estimated value

UJ = Estimated reporting limit

NA = Not analyzed

ug/L = Micrograms per liter

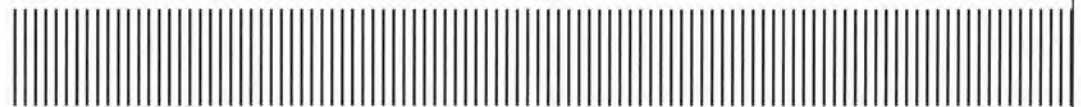
* = not sampled during first quarter 2011; unable to gain access to well after two attempts to contact resident

** = Well in front yard sampled for comparison purposes, labeled as 16 E. Yearling Yard

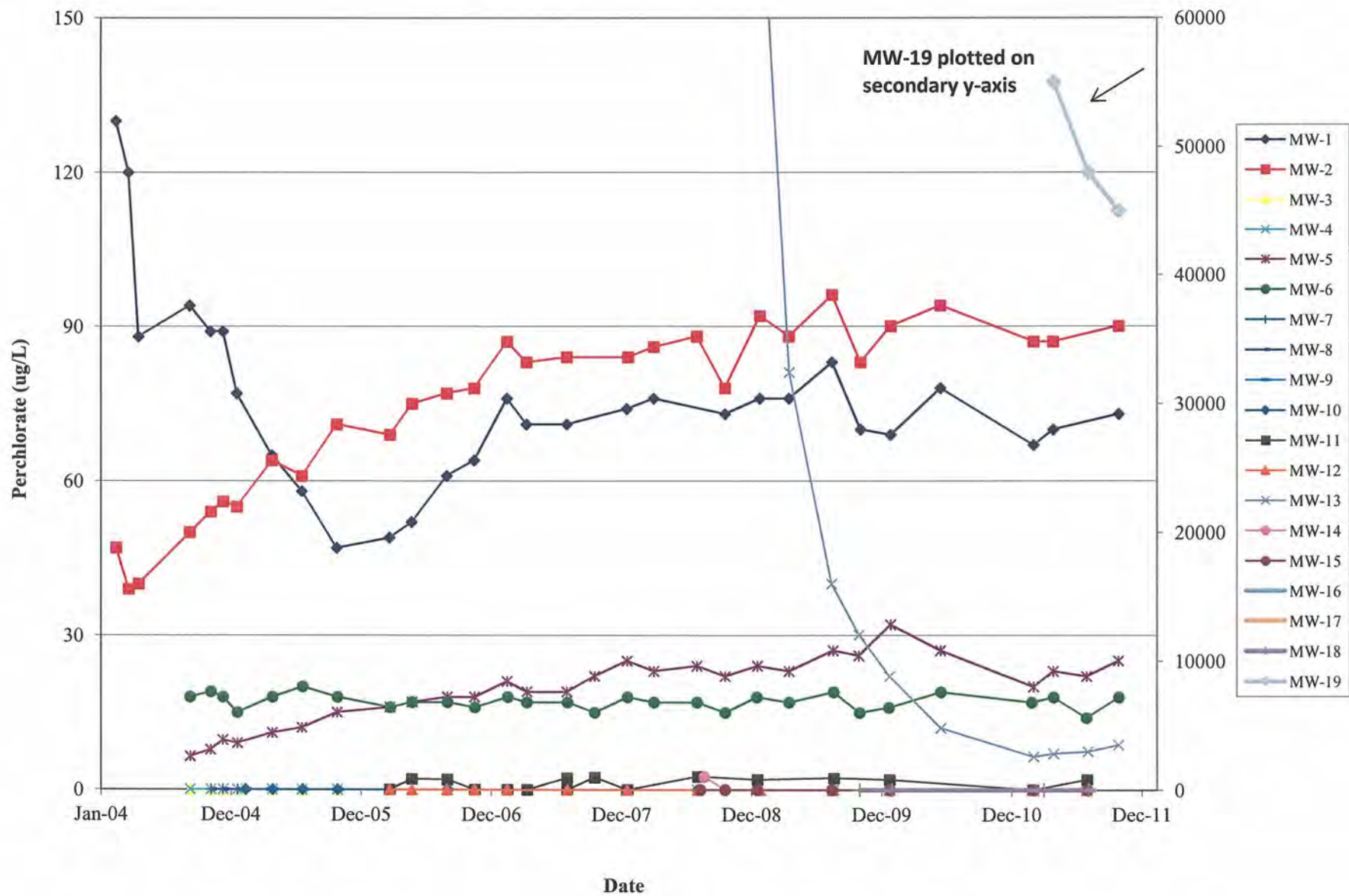
*** = not sampled during second quarter 2011; unable to gain access to well after two attempts to contact resident

**** = Older well located in front yard of 218 E. Yearling that previously supplied both 204 E. Yearling and 218 E. Yearling residences before installation of new wells in back yards of both residences.

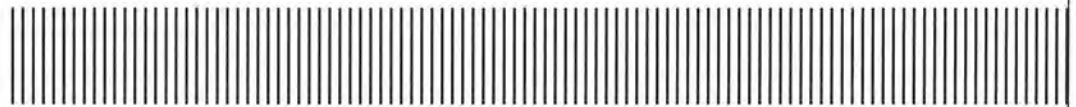
Appendix G
Historic Perchlorate Concentration
Graph – Monitor Wells



Appendix G Historic Monitor Well Perchlorate Concentration Graph



Appendix H
Summary of 2011 Field Data



Appendix H 2011 Field Data Summary

Quarter Sampled	Well ID	Date	Purge Volume (gallons)	Time (HH:MM)	Temperature (°C)	Conductivity (µs/cm)	pH (SU)
First Quarter 2011	MW-1	3/2/2011	35	13:43	28.37	493	5.90
	MW-1	3/2/2011	70	13:48	28.43	492	5.89
	MW-1	3/2/2011	105	13:53	28.46	489	6.97
	MW-1	3/2/2011	140	13:58	28.48	485	7.04
	MW-1	3/2/2011	175	14:03	28.43	482	7.10
	MW-1	3/2/2011	196	14:06	purge end time		
	MW-2	3/2/2011	30	15:04	28.27	543	6.45
	MW-2	3/2/2011	60	15:07	28.40	544	5.82
	MW-2	3/2/2011	90	15:10	28.43	543	6.00
	MW-2	3/2/2011	120	15:13	28.42	539	6.20
	MW-2	3/2/2011	150	15:16	28.38	536	6.34
	MW-2	3/2/2011	180	15:19	28.37	533	6.53
	MW-2	3/2/2011	370	15:38	purge end time		
	MW-3	2/24/2011	10	13:06	28.09	329	6.01
	MW-3	2/24/2011	25	13:09	28.56	332	6.05
	MW-3	2/24/2011	40	13:12	28.72	332	6.08
	MW-3	2/24/2011	50	13:14	28.61	331	6.08
	MW-3	2/24/2011	60	13:16	28.67	331	6.11
	MW-3	2/24/2011	65	13:17	dry		
	MW-4	2/24/2011	8	11:23	27.21	453	6.08
	MW-4	2/24/2011	18	11:27	28.60	471	6.18
	MW-4	2/24/2011	25	11:30	29.24	478	6.20
	MW-4	2/24/2011	30	11:32	dry		
	MW-5	3/2/2011	40	12:17	28.51	483	7.67
	MW-5	3/2/2011	73	12:22	28.58	476	7.67
	MW-5	3/2/2011	107	12:27	28.61	463	7.78
	MW-5	3/2/2011	147	12:33	28.58	446	7.87
	MW-5	3/2/2011	180	12:38	28.59	436	7.93
	MW-5	3/2/2011	213	12:43	28.53	432	7.91
	MW-5	3/2/2011	247	12:48	purge end time		
	MW-6	2/25/2011	7	12:04	26.91	462	5.90
	MW-6	2/25/2011	14	12:06	27.85	476	6.00
	MW-6	2/25/2011	24	12:09	28.14	478	6.05
	MW-6	2/25/2011	35	12:12	28.36	481	6.11
	MW-6	2/25/2011	45	12:15	28.46	482	6.12
	MW-6	2/25/2011	56	12:18	28.15	481	6.12
	MW-6	2/25/2011	70	12:22	dry		
	MW-7	2/27/2011	10	13:28	27.63	504	8.53
	MW-7	2/27/2011	40	13:34	27.82	500	6.50
	MW-7	2/27/2011	70	13:40	27.78	496	8.49
	MW-7	2/27/2011	100	13:46	27.88	492	8.44
	MW-7	2/27/2011	130	13:52	27.93	488	8.51
	MW-7	2/27/2011	160	13:58	27.82	481	8.35
	MW-7	2/27/2011	190	14:04	purge end time		
	MW-8	2/28/2011	14	12:15	28.64	318	9.99
	MW-8	2/28/2011	27	12:20	29.02	320	9.98
	MW-8	2/28/2011	40	12:25	29.63	325	10.66
	MW-8	2/28/2011	54	12:30	29.88	325	10.54
	MW-8	2/28/2011	68	12:35	30.11	328	10.71
	MW-8	2/28/2011	81	12:40	30.17	328	10.54
MW-8	2/28/2011	95	12:45	30.24	331	10.37	
MW-8	2/28/2011	149	13:05	dry			
MW-9	3/1/2011	15	12:44	28.15	579	7.46	
MW-9	3/1/2011	37	12:50	28.39	576	7.28	

Appendix H 2011 Field Data Summary

Quarter Sampled	Well ID	Date	Purge Volume (gallons)	Time (HH:MM)	Temperature (°C)	Conductivity (µs/cm)	pH (SU)
First Quarter 2011 (cont.)	MW-9	3/1/2011	60	12:56	28.47	577	7.30
	MW-9	3/1/2011	82	13:02	28.46	569	7.47
	MW-9	3/1/2011	105	13:08	28.46	563	7.43
	MW-9	3/1/2011	128	13:14	28.47	556	7.43
	MW-9	3/1/2011	158	13:22	purge end time		
	MW-10	2/24/2011	5	13:50	27.51	384	6.00
	MW-10	2/24/2011	11	13:54	28.17	389	6.06
	MW-10	2/24/2011	15	13:57	28.44	391	6.10
	MW-10	2/24/2011	19	14:00	28.89	393	6.15
	MW-10	2/24/2011	24	14:03	28.93	393	6.16
	MW-10	2/24/2011	28	14:06	28.95	394	6.17
	MW-10	2/24/2011	33	14:09	28.98	395	6.10
	MW-10	2/24/2011	67	14:32	purge end time		
	MW-11	2/28/2011	11	14:41	28.15	885	7.14
	MW-11	2/28/2011	37	14:48	28.56	874	7.51
	MW-11	2/28/2011	64	14:55	28.58	847	7.66
	MW-11	2/28/2011	90	15:02	28.59	832	7.73
	MW-11	2/28/2011	116	15:09	28.59	827	7.74
	MW-11	2/28/2011	150	15:18	purge end time		
	MW-12	3/1/2011	23	14:12	28.62	577	6.86
	MW-12	3/1/2011	140	14:22	29.25	582	7.29
	MW-12	3/1/2011	256	14:32	29.38	562	7.27
	MW-12	3/1/2011	372	14:42	29.55	553	7.47
	MW-12	3/1/2011	488	14:52	29.63	549	7.42
	MW-12	3/1/2011	500	14:53	purge stop		
	MW-12	3/1/2011	--	15:10	purge start		
	MW-12	3/1/2011	611	15:20	29.53	541	7.65
	MW-12	3/1/2011	721	15:30	purge stop		
	MW-12	3/1/2011	--	15:33	purge start		
	MW-12	3/1/2011	721	15:33	29.54	539	7.42
	MW-12	3/1/2011	975	15:56	purge end time		
	MW-13	3/2/2011	33	8:28	28.95	571	8.52
	MW-13	3/2/2011	144	8:38	29.46	571	8.17
	MW-13	3/2/2011	367	8:58	29.55	578	8.08
	MW-13	3/2/2011	400	9:01	purge stop		
	MW-13	3/2/2011	--	9:25	purge start		
	MW-13	3/2/2011	400	9:25	29.50	553	7.21
	MW-13	3/2/2011	609	9:45	29.47	586	6.99
	MW-13	3/2/2011	819	10:05	29.52	590	7.46
	MW-13	3/2/2011	850	10:08	purge stop		
	MW-13	3/2/2011	--	10:30	purge start		
	MW-13	3/2/2011	1275	11:13	purge end time		
	MW-14	2/28/2011	21	9:54	28.75	1058	7.80
	MW-14	2/28/2011	72	10:04	29.23	1059	5.68
	MW-14	2/28/2011	103	10:10	29.15	1055	5.87
MW-14	2/28/2011	134	10:16	29.04	1053	6.37	
MW-14	2/28/2011	181	10:25	29.23	1055	6.63	
MW-14	2/28/2011	207	10:30	29.56	1057	7.11	
MW-14	2/28/2011	233	10:35	29.80	1060	7.39	
MW-14	2/28/2011	336	10:55	purge end time			
MW-15	3/1/2011	10	9:29	28.23	594	7.69	
MW-15	3/1/2011	40	9:35	28.84	609	7.67	
MW-15	3/1/2011	70	9:41	28.86	566	7.57	
MW-15	3/1/2011	100	9:47	28.92	567	7.55	

Appendix H 2011 Field Data Summary

Quarter Sampled	Well ID	Date	Purge Volume (gallons)	Time (HH:MM)	Temperature (°C)	Conductivity (µs/cm)	pH (SU)
First Quarter 2011 (cont.)	MW-15	3/1/2011	160	9:59	28.90	567	7.51
	MW-15	3/1/2011	165	10:00	28.90	567	7.48
	MW-15	3/1/2011	185	10:04	purge end time		
	MW-18	3/29/2011	30	15:48	28.08	0.382	7.20
	MW-18	3/29/2011	55	15:53	28.29	0.373	7.41
	MW-18	3/29/2011	80	15:58	28.40	0.363	7.41
	MW-18	3/29/2011	105	16:03	28.61	0.347	7.50
	MW-18	3/29/2011	115	16:05	dry		
Second Quarter 2011	MW-1	4/26/2011	28	12:12	28.39	440	6.60
	MW-1	4/26/2011	63	12:17	28.58	440	6.82
	MW-1	4/26/2011	98	12:22	28.61	434	6.94
	MW-1	4/26/2011	133	12:27	28.62	434	7.01
	MW-1	4/26/2011	168	12:32	28.62	435	7.03
	MW-1	4/26/2011	189	12:35	purge end time		
	MW-2	4/26/2011	70	14:25	28.55	487	6.65
	MW-2	4/26/2011	100	14:28	28.62	481	6.82
	MW-2	4/26/2011	130	14:31	28.63	478	6.91
	MW-2	4/26/2011	160	14:34	28.60	476	6.97
	MW-2	4/26/2011	190	14:37	28.63	472	6.99
	MW-2	4/26/2011	220	14:40	28.61	471	7.01
	MW-2	4/26/2011	240	14:42	purge end time		
	MW-5	4/26/2011	33	10:20	28.67	432	6.70
	MW-5	4/26/2011	67	10:25	28.72	426	6.90
	MW-5	4/26/2011	100	10:30	28.74	419	6.99
	MW-5	4/26/2011	134	10:35	28.77	412	7.04
	MW-5	4/26/2011	167	10:40	28.76	407	7.07
	MW-5	4/26/2011	200	10:45	28.77	405	7.08
	MW-5	4/26/2011	234	10:50	28.78	405	7.09
	MW-5	4/26/2011	254	10:53	purge end time		
	MW-6	4/26/2011	11	9:15	27.87	513	6.64
	MW-6	4/26/2011	21	9:18	28.44	518	6.82
	MW-6	4/26/2011	31	9:21	28.72	527	6.91
	MW-6	4/26/2011	42	9:24	28.71	526	6.95
	MW-6	4/26/2011	52.5	9:27	purge end time		
	MW-13	4/27/2011	19	9:20	29.56	514	6.55
	MW-13	4/27/2011	111	9:30	29.71	513	6.83
	MW-13	4/27/2011	203	9:40	29.79	519	6.89
	MW-13	4/27/2011	296	9:50	29.80	524	6.94
	MW-13	4/27/2011	389	10:00	29.65	529	6.96
	MW-13	4/27/2011	481	10:10	29.67	524	6.98
	MW-13	4/27/2011	--	10:10	purge stop		
	MW-13	4/27/2011	--	11:15	purge start		
	MW-13	4/27/2011	481	11:15	29.55	525	7.13
	MW-13	4/27/2011	574	11:25	29.58	521	7.10
MW-13	4/27/2011	666	11:35	29.64	524	7.08	
MW-13	4/27/2011	759	11:45	29.63	524	7.06	
MW-13	4/27/2011	851	11:55	29.64	522	7.06	
MW-13	4/27/2011	860	11:56	purge end time			
MW-16	4/28/2011	23	8:40	29.79	565	6.38	
MW-16	4/28/2011	98	8:50	29.80	562	6.62	
MW-16	4/28/2011	174	9:00	30.01	568	6.75	
MW-16	4/28/2011	249	9:10	30.20	571	6.82	
MW-16	4/28/2011	325	9:20	30.28	578	6.83	
MW-16	4/28/2011	400	9:30	30.34	578	6.84	

Appendix H 2011 Field Data Summary

Quarter Sampled	Well ID	Date	Purge Volume (gallons)	Time (HH:MM)	Temperature (°C)	Conductivity (µs/cm)	pH (SU)	
Second Quarter 2011 (cont.)	MW-16	4/28/2011	--	9:30	purge stop			
	MW-16	4/28/2011	--	10:00	purge start			
	MW-16	4/28/2011	400	10:00	30.01	576	6.89	
	MW-16	4/28/2011	480	10:10	30.11	566	6.91	
	MW-16	4/28/2011	560	10:20	30.23	573	6.92	
	MW-16	4/28/2011	640	10:30	30.36	576	6.94	
	MW-16	4/28/2011	720	10:40	30.38	574	6.95	
	MW-16	4/28/2011	800	10:50	30.40	572	6.97	
	MW-16	4/28/2011	--	10:50	purge stop			
	MW-16	4/28/2011	--	11:10	purge start			
	MW-16	4/28/2011	800	11:10	30.07	577	6.97	
	MW-16	4/28/2011	925	11:20	30.11	571	6.96	
	MW-16	4/28/2011	1050	11:30	30.21	568	6.96	
	MW-16	4/28/2011	1050	11:30	purge stop			
	MW-16	4/28/2011	--	11:51	purge end time			
	MW-17	4/27/2011	6	7:12	28.35	432	6.75	
	MW-17	4/27/2011	24	7:18	28.68	454	6.84	
	MW-17	4/27/2011	33	7:21	28.88	451	6.88	
	MW-17	4/27/2011	42	7:24	28.90	445	6.91	
	MW-17	4/27/2011	52	7:27	28.93	443	6.92	
	MW-17	4/27/2011	64	7:31	29.00	437	6.93	
	MW-17	4/27/2011	73	7:34	29.08	426	6.94	
	MW-17	4/27/2011	82	7:37	29.20	416	6.95	
	MW-17	4/27/2011	91	7:40	29.43	416	6.97	
	MW-17	4/27/2011	100	7:43	29.48	414	6.98	
	MW-17	4/27/2011	109	7:46	water level not changing			
	MW-17	4/27/2011	115	7:48	29.20	412	6.98	
	MW-17	4/27/2011	124	7:51	28.87	408	6.98	
	MW-17	4/27/2011	133	7:54	dry			
	MW-19	4/28/2011	36	13:08	28.33	526	6.15	
	MW-19	4/28/2011	72	13:11	28.36	521	6.38	
	MW-19	4/28/2011	108	13:14	28.40	512	6.52	
	MW-19	4/28/2011	144	13:17	28.41	512	6.57	
MW-19	4/28/2011	180	13:20	28.35	506	6.63		
MW-19	4/28/2011	216	13:23	28.35	505	6.68		
MW-19	4/28/2011	252	13:26	28.35	502	6.71		
MW-19	4/28/2011	288	13:29	28.36	499	6.75		
MW-19	4/28/2011	420	13:40	purge end time				
Third Quarter 2011	MW-1	8/1/2011	0	11:15	29.19	524	7.87	
	MW-1	8/1/2011	35	11:20	28.47	414	7.52	
	MW-1	8/1/2011	70	11:25	28.51	412	7.49	
	MW-1	8/1/2011	105	11:30	28.54	407	7.45	
	MW-1	8/1/2011	140	11:35	purge end time			
	MW-2	8/1/2011	0	12:15	28.92	454	7.88	
	MW-2	8/1/2011	50	12:20	28.04	452	7.68	
	MW-2	8/1/2011	100	12:25	28.06	446	7.66	
	MW-2	8/1/2011	150	12:30	28.07	442	7.64	
	MW-2	8/1/2011	170	12:32	purge end time			
	MW-3	7/27/2011	0	14:05	28.65	354	7.99	
	MW-3	7/27/2011	23	14:10	28.51	342	7.78	
	MW-3	7/27/2011	46	14:15	29.10	333	7.63	
	MW-3	7/27/2011	55	14:17	dry			
	MW-4	7/28/2011	0	6:15	26.57	469	7.63	
MW-4	7/28/2011	11	6:20	27.37	468	7.54		

Appendix H 2011 Field Data Summary

Quarter Sampled	Well ID	Date	Purge Volume (gallons)	Time (HH:MM)	Temperature (°C)	Conductivity (µs/cm)	pH (SU)
Third Quarter 2011 (cont.)	MW-4	7/28/2011	22	6:25	dry		
	MW-5	7/29/2011	0	10:15	28.69	424	7.71
	MW-5	7/29/2011	27	10:20	28.53	410	7.65
	MW-5	7/29/2011	53	10:25	28.63	384	7.67
	MW-5	7/29/2011	80	10:30	28.66	346	7.69
	MW-5	7/29/2011	107	10:35	28.68	342	7.72
	MW-5	7/29/2011	133	10:40	28.69	346	7.70
	MW-5	7/29/2011	160	10:45	28.20	349	7.72
	MW-5	7/29/2011	--	10:45	purge end time		
	MW-6	7/28/2011	0	15:05	28.72	456	7.60
	MW-6	7/28/2011	20	15:10	28.36	481	7.45
	MW-6	7/28/2011	40	15:15	28.49	476	7.45
	MW-6	7/28/2011	--	15:16	dry		
	MW-7	7/28/2011	0	7:49	27.46	369	7.86
	MW-7	7/28/2011	25	7:54	27.62	361	7.94
	MW-7	7/28/2011	50	7:59	27.70	367	7.81
	MW-7	7/28/2011	75	8:04	27.77	346	7.77
	MW-7	7/28/2011	100	8:09	27.79	351	7.76
	MW-7	7/28/2011	125	8:14	27.32	317	7.75
	MW-7	7/28/2011	150	8:19	27.85	292	7.77
	MW-7	7/28/2011	175	8:24	27.87	368	7.75
	MW-7	7/28/2011	200	8:29	27.89	251	7.75
	MW-7	7/28/2011	--	8:30	purge end time		
	MW-8	7/27/2011	0	11:35	28.21	231	8.84
	MW-8	7/27/2011	31	11:40	dry		
	MW-8	7/27/2011	50	11:43	purge end time		
	MW-9	7/27/2011	0	7:50	28.26	476	7.44
	MW-9	7/27/2011	24	7:55	28.39	472	7.36
	MW-9	7/27/2011	49	8:00	28.43	465	7.38
	MW-9	7/27/2011	73	8:05	28.61	436	7.41
	MW-9	7/27/2011	97	8:10	28.47	432	7.41
	MW-9	7/27/2011	121	8:15	28.47	431	7.42
	MW-9	7/27/2011	146	8:20	28.47	421	7.43
	MW-9	7/27/2011	170	8:25	purge end time		
	MW-10	7/28/2011	0	12:47	28.32	400	7.70
	MW-10	7/28/2011	13	12:52	28.47	398	7.57
	MW-10	7/28/2011	30	12:59	29.43	392	7.39
	MW-10	7/28/2011	45	13:05	29.63	388	7.42
	MW-10	7/28/2011	57.5	13:10	29.70	384	7.46
	MW-10	7/28/2011	--	13:13	purge end time		
	MW-10	7/28/2011	--	13:15	dry		
	MW-11	7/29/2011	0	8:45	28.34	630	7.67
MW-11	7/29/2011	25	8:50	28.37	630	7.62	
MW-11	7/29/2011	49	8:55	28.48	579	7.49	
MW-11	7/29/2011	74	9:00	28.50	540	7.47	
MW-11	7/29/2011	123	9:10	28.51	458	7.45	
MW-11	7/29/2011	147	9:15	28.63	515	7.42	
MW-11	7/29/2011	196	9:25	28.61	530	7.42	
MW-11	7/29/2011	245	9:35	28.63	380	7.43	
MW-11	7/29/2011	--	9:35	purge end time			
MW-12	7/29/2011	0	11:20	28.42	460	7.65	
MW-12	7/29/2011	120	11:30	29.20	461	7.39	
MW-12	7/29/2011	240	11:40	29.46	451	7.41	
MW-12	7/29/2011	360	11:50	29.97	426	7.46	

Appendix H 2011 Field Data Summary

Quarter Sampled	Well ID	Date	Purge Volume (gallons)	Time (HH:MM)	Temperature (°C)	Conductivity (µs/cm)	pH (SU)
Third Quarter 2011 (cont.)	MW-12	7/29/2011	480	12:00	29.50	418	7.44
	MW-12	7/29/2011	--	12:00	stop purge		
	MW-12	7/29/2011	--	12:35	start purge		
	MW-12	7/29/2011	480	12:35	29.35	451	7.62
	MW-12	7/29/2011	600	12:45	29.51	438	7.46
	MW-12	7/29/2011	720	12:55	29.50	421	7.44
	MW-12	7/29/2011	840	13:05	29.54	411	7.49
	MW-12	7/29/2011	960	13:15	29.55	390	7.46
	MW-12	7/29/2011	--	13:15	purge end time		
	MW-13	8/2/2011	0	11:15	28.88	278	7.73
	MW-13	8/2/2011	51	11:20	29.24	365	7.60
	MW-13	8/2/2011	152	11:30	29.36	289	7.51
	MW-13	8/2/2011	253	11:40	29.40	339	7.53
	MW-13	8/2/2011	354	11:50	29.41	255	7.53
	MW-13	8/2/2011	455	12:00	29.43	366	7.56
	MW-13	8/2/2011	556	12:10	29.47	380	7.55
	MW-13	8/2/2011	657	12:20	29.44	315	7.55
	MW-13	8/2/2011	758	12:30	29.44	359	7.55
	MW-13	8/2/2011	859	12:40	29.45	346	7.55
	MW-13	8/2/2011	900	12:44	purge end time		
	MW-14	8/1/2011	0	8:05	29.18	772	7.48
	MW-14	8/1/2011	50	8:10	29.28	748	7.31
	MW-14	8/1/2011	100	8:15	29.20	699	7.22
	MW-14	8/1/2011	150	8:20	29.18	673	7.18
	MW-14	8/1/2011	162	8:25	29.37	641	7.14
	MW-14	8/1/2011	175	8:30	29.57	622	7.13
	MW-14	8/1/2011	187	8:35	30.00	609	7.11
MW-14	8/1/2011	200	8:40	30.21	627	7.15	
MW-14	8/1/2011	212	8:45	30.48	625	7.13	
MW-14	8/1/2011	225	8:50	30.60	624	7.13	
MW-14	8/1/2011	237	8:55	30.86	623	7.14	
MW-14	8/1/2011	250	9:00	31.07	627	7.16	
MW-14	8/1/2011	275	9:10	30.96	630	7.10	
MW-14	8/1/2011	287	9:15	31.17	624	7.11	
MW-14	8/1/2011	312	9:25	31.34	604	7.11	
MW-14	8/1/2011	337	9:35	31.44	599	7.11	
MW-14	8/1/2011	350	9:40	purge end time			
MW-15	7/29/2011	0	6:55	27.29	506	8.00	
MW-15	7/29/2011	22	7:00	28.73	495	7.58	
MW-15	7/29/2011	45	7:05	28.82	485	7.54	
MW-15	7/29/2011	67	7:10	28.98	476	7.47	
MW-15	7/29/2011	90	7:15	NR	NR	NR	
MW-15	7/29/2011	135	7:20	29.09	433	7.40	
MW-15	7/29/2011	158	7:25	29.11	413	7.39	
MW-15	7/29/2011	180	7:30	29.13	389	7.38	
MW-15	7/29/2011	202	7:35	29.14	382	7.37	
MW-15	7/29/2011	225	7:40	29.18	357	7.36	
MW-15	7/29/2011	247	7:45	29.21	382	7.35	
MW-15	7/29/2011	270	7:50	29.26	352	7.35	
MW-15	7/29/2011	--	7:50	purge end time			
MW-16	8/2/2011	0	8:00	28.77	519	7.80	
MW-16	8/2/2011	50	8:05	29.42	515	7.52	
MW-16	8/2/2011	150	8:15	29.43	479	7.41	
MW-16	8/2/2011	205	8:25	29.65	460	7.38	

Appendix H
2011 Field Data Summary

Quarter Sampled	Well ID	Date	Purge Volume (gallons)	Time (HH:MM)	Temperature (°C)	Conductivity (µs/cm)	pH (SU)
Third Quarter 2011 (cont.)	MW-16	8/2/2011	260	8:35	29.87	436	7.38
	MW-16	8/2/2011	315	8:45	30.03	403	7.38
	MW-16	8/2/2011	370	8:55	30.08	508	7.38
	MW-16	8/2/2011	425	9:05	320.10	366	7.39
	MW-16	8/2/2011	480	9:15	30.14	418	7.47
	MW-16	8/2/2011	--	9:15	stop purge		
	MW-16	8/2/2011	480	9:45	start purge		
	MW-16	8/2/2011	514	9:50	29.47	517	7.63
	MW-16	8/2/2011	581	10:00	29.85	455	7.41
	MW-16	8/2/2011	648	10:10	30.00	418	7.38
	MW-16	8/2/2011	716	10:20	30.16	400	7.38
	MW-16	8/2/2011	783	10:30	30.21	351	7.38
	MW-16	8/2/2011	850	10:40	30.27	405	7.38
	MW-16	8/2/2011	--	10:45	purge end time		
	MW-17	8/1/2011	0	6:00	26.24	430	7.13
	MW-17	8/1/2011	15	6:05	27.51	411	7.21
	MW-17	8/1/2011	30	6:10	28.18	400	7.24
	MW-17	8/1/2011	45	6:15	28.76	393	7.31
	MW-17	8/1/2011	75	6:25	29.00	382	7.35
	MW-17	8/1/2011	90	6:30	29.06	380	7.39
	MW-17	8/1/2011	120	6:40	29.11	363	7.49
	MW-17	8/1/2011	135	6:45	29.14	353	7.51
	MW-17	8/1/2011	150	6:50	29.15	355	7.54
	MW-17	8/1/2011	165	6:55	29.15	351	7.58
	MW-17	8/1/2011	195	7:05	29.19	347	7.58
	MW-17	8/1/2011	210	7:10	29.22	346	7.59
	MW-17	8/1/2011	225	7:15	29.24	345	7.60
	MW-17	8/1/2011	--	7:15	purge end time		
	MW-18	8/1/2011	0	14:05	27.57	395	8.38
	MW-18	8/1/2011	25	14:10	27.70	397	8.24
	MW-18	8/1/2011	50	14:15	27.74	392	8.28
	MW-18	8/1/2011	75	14:20	27.79	372	8.35
MW-18	8/1/2011	100	14:25	27.88	326	8.49	
MW-18	8/1/2011	110	14:27	purge end time			
MW-18	8/1/2011	--	14:29	dry			
MW-19	8/3/2011	0	6:10	26.56	26.56	8.61	
MW-19	8/3/2011	80	6:15	27.82	27.82	7.98	
MW-19	8/3/2011	160	6:20	28.89	27.89	7.90	
MW-19	8/3/2011	240	6:25	27.92	27.92	7.90	
MW-19	8/3/2011	--	6:25	purge end time			
Fourth Quarter 2011	MW-1	10/27/2011	54	8:32	27.44	415	7.54
	MW-1	10/27/2011	81	8:37	27.54	417	8.32
	MW-1	10/27/2011	108	8:42	27.38	417	7.75
	MW-1	10/27/2011	124	8:45	sampled		
	MW-1	10/27/2011	140	8:48	purge end time		
	MW-2	10/27/2011	39	9:25	27.34	464	7.68
	MW-2	10/27/2011	78	9:30	27.18	460	7.60
	MW-2	10/27/2011	117	9:35	28.13	455	7.57
	MW-2	10/27/2011	124	9:36	sampled		
	MW-2	10/27/2011	210	9:47	purge end time		
	MW-5	10/26/2011	20	12:25	28.97	412	7.52
	MW-5	10/26/2011	40	12:30	29.04	402	7.70
	MW-5	10/26/2011	60	12:35	29.06	401	7.79
MW-5	10/26/2011	80	12:40	29.18	398	7.82	

Appendix H 2011 Field Data Summary

Quarter Sampled	Well ID	Date	Purge Volume (gallons)	Time (HH:MM)	Temperature (°C)	Conductivity (µs/cm)	pH (SU)
Fourth Quarter 2011 (cont.)	MW-5	10/26/2011	101	12:45	29.19	399	7.81
	MW-5	10/26/2011	121	12:50	29.11	398	7.77
	MW-5	10/26/2011	141	12:55	29.11	398	7.76
	MW-5	10/26/2011	165	13:01	purge end time		
	MW-6	10/26/2011	20	11:35	27.59	492	7.56
	MW-6	10/26/2011	40	11:40	28.31	493	7.48
	MW-6	10/26/2011	60	11:45	purge end time		
	MW-13	10/26/2011	110	8:35	29.17	473	7.58
	MW-13	10/26/2011	221	8:45	29.03	475	7.63
	MW-13	10/26/2011	331	8:55	28.97	477	7.61
	MW-13	10/26/2011	442	9:05	28.87	477	7.56
	MW-13	10/26/2011	--	9:05	purge stop		
	MW-13	10/26/2011	--	9:35	purge start		
	MW-13	10/26/2011	442	9:35	26.92	479	7.62
	MW-13	10/26/2011	552	9:45	28.59	475	7.54
	MW-13	10/26/2011	662	9:55	28.57	475	7.56
	MW-13	10/26/2011	773	10:05	28.62	475	7.56
	MW-13	10/26/2011	850	10:12	purge end time		
	MW-19	10/27/2011	53	10:49	27.89	500	7.74
	MW-19	10/27/2011	107	10:54	28.28	510	7.82
	MW-19	10/27/2011	160	10:59	28.27	509	7.78
	MW-19	10/27/2011	224	11:05	sampled		
	MW-19	10/27/2011	235	11:06	purge end time		
	PW-1	10/25/2011	101	11:35	29.37	462	7.98
	PW-1	10/25/2011	201	11:45	29.29	458	7.99
	PW-1	10/25/2011	302	11:55	29.28	462	8.00
	PW-1	10/25/2011	554	12:20	29.33	472	8.00
PW-1	10/25/2011	654	12:30	29.41	480	7.90	
PW-1	10/25/2011	755	12:40	29.43	476	7.98	
PW-1	10/25/2011	855	12:50	29.39	476	7.91	
PW-1	10/25/2011	1107	13:15	29.62	473	8.01	
PW-1	10/25/2011	1208	13:25	29.48	487	7.95	
PW-1	10/25/2011	1308	13:35	29.39	480	7.97	
PW-1	10/25/2011	1409	13:45	29.41	480	7.92	
PW-1	10/25/2011	1560	14:00	29.23	482	7.89	
PW-1	10/25/2011	--	14:06	purge end time			

Notes:

NR = Not recorded

HH:MM = Hour : Minute

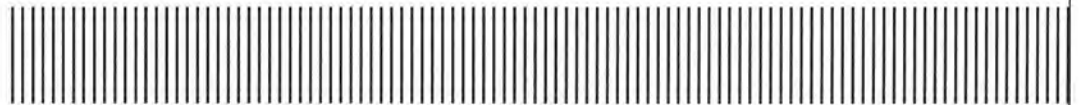
°C = Degrees Celsius

us/cm - Microsiemen per centimeter

SU = Standard unit

Universal Propulsion Company
2011 Annual Monitoring Report

Appendix I
2011 Data Verification Summaries



1.0 INTRODUCTION

This summary presents data verification results for private residential wells adjacent to Universal Propulsion Company, Inc. (UPCO) during the February and March 2011 monitoring event. The data review was performed in accordance with the procedures specified in the Remedial Investigation Workplan Vol. II Quality Assurance Project Plan (QAPP) (Hargis+Associates, Inc. 2004), USEPA Functional Guidelines for Inorganic Data Review (USEPA, 2002), and quality assurance and control parameters set by the project laboratory (TestAmerica).

A total of 12 groundwater samples were collected and submitted to TestAmerica for the following parameters:

- perchlorate by USEPA Method 314.0; and
- perchlorate by USEPA Method 332.0

Table B-1 lists the samples and associated analytical parameters.

1.1 Data Quality Assessment

Sample results were subject to a Level III data review that includes an evaluation of the following quality control (QC) parameters:

- sample receipt temperatures;
- holding times;
- method blanks;
- laboratory control samples/laboratory control sample duplicates (LCS/LCSD); and
- matrix spike/matrix spike duplicates (MS/MSD).

Results did not require qualification based on the data verification.

1.2 Data Qualifiers

The data qualifiers used to qualify analytical results associated with QC parameters outside data quality objectives are defined below:

- J The analyte was positively identified; however, the result should be considered an estimated value.
- UJ The reporting limit is considered an estimated value.

R Quality control indicates that the data is not usable

Results qualified as "J" or UJ" are of acceptable data quality and may be used quantitatively to fulfill the objectives of the analytical program, per USEPA guidelines. The results associated with this sampling event required no data qualification.

1.3 Sample Preservation and Temperature Upon Laboratory Receipt

Samples were received below the correct temperature ($4\pm 2^{\circ}$ Celsius) at the project laboratory. Samples received by the laboratory on March 1, 2011 had a temperature of 0.8° Celsius. This temperature outlier did not significantly impact sample results; therefore, data qualification was not required.

1.4 Holding Times

Samples were extracted and analyzed within the holding time limits set by the respective USEPA methods.

1.5 Blank Contamination

Method blanks were performed at the required frequencies. Target compounds were not detected in the blanks.

1.6 LCS/LCS Duplicate Recovery and Relative Percent Difference

LCS/LCS duplicates were performed at the required frequency and were evaluated based on the following criteria:

- If the analyte recovery was above acceptance limits for LCS or LCS duplicate but the analyte was not detected in the associated batch, then data qualification was not required.
- If the analyte recovery was above acceptance limits for LCS or LCS duplicate and the analyte was detected in the associated batch, then the analyte results were qualified "J".
- If the analyte recovery was below acceptance limits for LCS or LCS duplicate then the analyte results in the associated analytical batch were qualified ("UJ" for non-detects and "J" for detected results).
- If the analyte recovery was less than 10 percent, the analyte results in the associated analytical batch were rejected and qualified "R".

Percent recoveries and RPDs for the LCS/LCS duplicate were within acceptance limits.

1.7 MS/MSD Recovery and RPD

MS/MSD samples were performed at the required frequency and were evaluated by the following criteria:

- If MS or MSD recovery for an analyte is above acceptance limits but the analyte is not detected in the associated analytical batch, then data qualification was not required.
- If MS or MSD recovery for an analyte is above acceptance limits and the analyte is detected in the associated analytical batch, the analyte results were qualified "J".
- Low MS/MSD recoveries for inorganic parameters result in sample qualification of the associated analytical batch.
- Low MS/MSD recoveries for organic parameters result in the data qualification of the unspiked sample rather than the analytical batch.
- Results were not qualified based on non-project specific MS/MSD (i.e., batch QC) recoveries.

Percent recoveries and RPDs for the MS/MSD were within acceptance limits

1.8 Completeness Summary

Two types of completeness were calculated for this project: contract and technical. As specified in the project DQOs, the goal for completeness for the site is 90 percent. Results indicated as not reportable by the laboratory are not included in the completeness calculations. The following equations are used to calculate the two types of completeness.

$$\begin{aligned} & \% \text{ Contract Completeness} = \\ & \left(\frac{\text{Number of contract compliant results}}{\text{Number of reported results}} \right) \\ & \quad \times 100 \end{aligned}$$

$$\begin{aligned} & \% \text{ Technical Completeness} = \\ & \left(\frac{\text{Number of usable results}}{\text{Number of reported results}} \right) \\ & \quad \times 100 \end{aligned}$$

The overall contract completeness included the evaluation of the protocol and contract deviations for holding times, blanks, MS/MSD, and LCS attained for the field samples was 100 percent. The technical completeness, which included all QC parameters, attained for the field samples was 100 percent. The completeness results are provided in Table B-2. All of the results were considered usable for the intended purposes and the project DQOs have been met.

Table B-1
Sampling and Analysis Schedule
First Quarter 2011 Groundwater Monitoring Report

Sample ID	Lab ID	Collected	Sample Type	Parameters
122 W. Yearling	PUB1608-01	2/25/2011	N	Perchlorate by EPA Method 314.0
	PUB1615-01	2/25/2011	N	Perchlorate by EPA Method 332.0
16 E. Yearling	PUB1530-01	2/24/2011	N	Perchlorate by EPA Method 314.0
	PUB1535-01	2/24/2011	N	Perchlorate by EPA Method 332.0
18 E. Yearling	PUB1430-01	2/23/2011	N	Perchlorate by EPA Method 314.0
	PUB1434-01	2/23/2011	N	Perchlorate by EPA Method 332.0
204 E. Yearling	PUB1431-01	2/23/2011	N	Perchlorate by EPA Method 314.0
	PUB1435-01	2/23/2011	N	Perchlorate by EPA Method 332.0
218 E. Yearling	PUB1429-01	2/23/2011	N	Perchlorate by EPA Method 314.0
	PUB1433-01	2/23/2011	N	Perchlorate by EPA Method 332.0
25825 N. 1st Place	PUB1531-01	2/24/2011	N	Perchlorate by EPA Method 314.0
	PUB1536-01	2/24/2011	N	Perchlorate by EPA Method 332.0
25903 N. 2nd Street	PUB1533-01	2/24/2011	N	Perchlorate by EPA Method 314.0
	PUB1537-01	2/24/2011	N	Perchlorate by EPA Method 332.0
412 E. Yearling	PUB1609-01	2/25/2011	N	Perchlorate by EPA Method 314.0
	PUB1614-01	2/25/2011	N	Perchlorate by EPA Method 332.0
424 E. Yearling	PUB1611-01	2/25/2011	N	Perchlorate by EPA Method 314.0
	PUB1612-01	2/25/2011	N	Perchlorate by EPA Method 332.0
520 E. Yearling	PUB1428-01	2/23/2011	N	Perchlorate by EPA Method 314.0
	PUB1432-01	2/23/2011	N	Perchlorate by EPA Method 332.0
604-616 E. Yearling	PUB1610-01	2/25/2011	N	Perchlorate by EPA Method 314.0
	PUB1613-01	2/25/2011	N	Perchlorate by EPA Method 332.0
8 W. Yearling	PUB1529-01	2/24/2011	N	Perchlorate by EPA Method 314.0
	PUB1534-01	2/24/2011	N	Perchlorate by EPA Method 332.0

Notes:

N = Normal sample

Table B-2
Completeness Summary
First Quarter 2011 Groundwater Monitoring Report

Parameters	Total Number of Samples	Number in Contractual Compliance	Percent Contractual Compliance	Number of Usable Results	Percent Technical Compliance
Inorganics					
Perchlorate (Method 314.0)	12	12	100	12	100
Perchlorate (Method 332.0)	12	12	100	12	100

Notes:

Percent Contractual Compliance = (Number of contract compliant results/Number of reported results) * 100

Percent Technical Compliance = (Number of usable results/Number of reported results) * 100

1.0 INTRODUCTION

This summary presents data verification results for private residential wells adjacent to Universal Propulsion Company, Inc. (UPCO) during the July 2011 monitoring event. The data review was performed in accordance with the procedures specified in the Remedial Investigation Workplan Vol. II Quality Assurance Project Plan (QAPP) (Hargis+Associates, Inc. 2004), USEPA Functional Guidelines for Inorganic Data Review (USEPA, 2002), and quality assurance and control parameters set by the project laboratory (TestAmerica).

A total of 12 groundwater samples were collected and submitted to TestAmerica for the following parameters:

- perchlorate by USEPA Method 314.0; and
- perchlorate by USEPA Method 332.0

Table C-1 lists the samples and associated analytical parameters.

1.1 Data Quality Assessment

Sample results were subject to a Level III data review that includes an evaluation of the following quality control (QC) parameters:

- sample receipt temperatures;
- holding times;
- method blanks;
- laboratory control samples/laboratory control sample duplicates (LCS/LCSD);
- matrix spike/matrix spike duplicates (MS/MSD); and,
- laboratory duplicates.

Results that required data qualification are listed in Table C-2.

1.2 Data Qualifiers

The data qualifiers used to qualify analytical results associated with QC parameters outside data quality objectives (DQOs) are defined below:

- J The analyte was positively identified; however, the result should be considered an estimated value.
- UJ The reporting limit is considered an estimated value.

R Quality control indicates that the data is not usable

Results qualified as "J" or UJ" are of acceptable data quality and may be used quantitatively to fulfill the objectives of the analytical program, per USEPA guidelines.

1.3 Sample Preservation and Temperature Upon Laboratory Receipt

Samples collected were received preserved and intact at the project laboratory. The samples were received by the laboratory at the correct temperature ($4\pm 2^\circ$ Celsius).

1.4 Holding Times

Samples were extracted and analyzed within the holding time limits set by the respective USEPA methods.

1.5 Blank Contamination

Method blanks were analyzed at the appropriate frequency as specified by the project laboratory. Target compounds were not detected in the method blanks.

1.6 LCS/LCS Duplicate Recovery and Relative Percent Difference

LCS/LCS duplicates were performed at the required frequency and were evaluated based on the following criteria:

- If the analyte recovery was above acceptance limits for LCS or LCS duplicate but the analyte was not detected in the associated batch, then data qualification was not required.
- If the analyte recovery was above acceptance limits for LCS or LCS duplicate and the analyte was detected in the associated batch, then the analyte results were qualified "J".
- If the analyte recovery was below acceptance limits for LCS or LCS duplicate then the analyte results in the associated analytical batch were qualified ("UJ" for non-detects and "J" for detected results).
- If the analyte recovery was less than 10 percent, the analyte results in the associated analytical batch were rejected and qualified "R".

Percent recoveries and RPDs for the LCS/LCS duplicate were within acceptance limits.

1.7 MS/MSD Recovery and RPD

MS/MSD samples were performed at the required frequency and were evaluated by the following criteria:

- If MS or MSD recovery for an analyte is above acceptance limits but the analyte is not detected in the associated analytical batch, then data qualification was not required.
- If MS or MSD recovery for an analyte is above acceptance limits and the analyte is detected in the associated analytical batch, the analyte results were qualified “J”.
- Low MS/MSD recoveries for inorganic parameters result in sample qualification of the associated analytical batch.
- Low MS/MSD recoveries for organic parameters result in the data qualification of the unspiked sample rather than the analytical batch.
- Results were not qualified based on non-project specific MS/MSD (i.e., batch QC) recoveries.

Percent recoveries and RPDs for the MS/MSD were within acceptance limits except for the following:

- The MS and MSD recoveries for perchlorate (64 percent and 66 percent, respectively) were below acceptance limits (80 to 120 percent) for the analytical batch 11H0224. Data qualification was not required because the spiked sample was not project specific (i.e., batch QC).
- The MSD recovery for perchlorate (122 percent) was above acceptance limits (80 to 120 percent) for the analytical batch 11H0225. Data qualification was not required because the spiked sample was not project specific (i.e., batch QC).

1.8 Laboratory Duplicates

Laboratory duplicates are evaluated based on the acceptance limits set forth by the project laboratory’s guidelines. Laboratory duplicates were performed at the appropriate frequency for perchlorate. Laboratory duplicates were within acceptance limits except for the following:

- The laboratory duplicate RPD for perchlorate (38 percent) was above acceptance limits (15 percent) for the analytical batch 11G1033. Samples were qualified “J” and “UJ” to indicate a potential bias.

1.9 Completeness Summary

Two types of completeness were calculated for this project: contract and technical. As specified in the project DQOs, the goal for completeness for the site is 90 percent. Results indicated as not reportable by the laboratory are not included in the completeness calculations. The following equations are used to calculate the two types of completeness.

$$\% \text{ Contract Completeness} =$$

$$\frac{\text{(Number of contract compliant results/}}{\text{Number of reported results)}} \times 100$$

$$\% \text{ Technical Completeness} = \frac{\text{(Number of usable results/Number of reported results)}}{\text{Number of reported results}} \times 100$$

The overall contract completeness included the evaluation of the protocol and contract deviations for holding times, blanks, MS/MSD, and LCS attained for the field samples was 50 percent. The technical completeness, which included all QC parameters, attained for the field samples was 100 percent. The completeness results are provided in Table C-3. All of the results were considered usable for the intended purposes and the project DQOs have been met.

Table C-1
Sampling and Analysis Schedule
Third Quarter 2011 Groundwater Monitoring Report

Sample ID	Lab ID	Collected	Sample Type	Parameters
122 W. Yearling	PUG1629-01	7/26/2011	N	Perchlorate by EPA Method 314.0
	PUG1615-01	7/26/2011	N	Perchlorate by EPA Method 332.0
16 E. Yearling Yard	PUG1632-01	7/26/2011	N	Perchlorate by EPA Method 314.0
	PUG1620-01	7/26/2011	N	Perchlorate by EPA Method 332.0
16 E. Yearling	PUG1632-02	7/26/2011	N	Perchlorate by EPA Method 314.0
	PUG1620-02	7/26/2011	N	Perchlorate by EPA Method 332.0
204 E. Yearling	PUG1631-01	7/26/2011	N	Perchlorate by EPA Method 314.0
	PUG1619-01	7/26/2011	N	Perchlorate by EPA Method 332.0
218 E. Yearling	PUG1612-01	7/26/2011	N	Perchlorate by EPA Method 314.0
	PUG1609-01	7/26/2011	N	Perchlorate by EPA Method 332.0
106 W. Yearling	PUG1639-01	7/26/2011	N	Perchlorate by EPA Method 314.0
	PUG1621-01	7/26/2011	N	Perchlorate by EPA Method 332.0
424 E. Yearling	PUG1637-01	7/26/2011	N	Perchlorate by EPA Method 314.0
	PUG1623-01	7/26/2011	N	Perchlorate by EPA Method 332.0
520 E. Yearling	PUG1635-01	7/26/2011	N	Perchlorate by EPA Method 314.0
	PUG1626-01	7/26/2011	N	Perchlorate by EPA Method 332.0
604 E. Yearling	PUG1634-01	7/26/2011	N	Perchlorate by EPA Method 314.0
	PUG1627-01	7/26/2011	N	Perchlorate by EPA Method 332.0
8 W. Yearling	PUG1630-01	7/26/2011	N	Perchlorate by EPA Method 314.0
	PUG1617-01	7/26/2011	N	Perchlorate by EPA Method 332.0
412 E. Yearling	PUG1727-01	7/27/2011	N	Perchlorate by EPA Method 314.0
	PUG1723-01	7/27/2011	N	Perchlorate by EPA Method 332.0
25825 N. 1st Place	PUG1729-01	7/27/2011	N	Perchlorate by EPA Method 314.0
	PUG1724-01	7/27/2011	N	Perchlorate by EPA Method 332.0

Notes:

N = Normal sample

Table C-2
Qualified Results
Third Quarter 2011 Groundwater Monitoring Report

Sample ID	Analyte	Result	Units	Data Qualifier	Comments
218 E. Yearling	Perchlorate	< 2.0	ug/l	UJ	Qualified due to laboratory duplicate RPD exceedance
122 W. Yearling	Perchlorate	< 2.0	ug/l	UJ	Qualified due to laboratory duplicate RPD exceedance
8 W. Yearling	Perchlorate	< 2.0	ug/l	UJ	Qualified due to laboratory duplicate RPD exceedance
204 E. Yearling	Perchlorate	< 2.0	ug/l	UJ	Qualified due to laboratory duplicate RPD exceedance
16 E. Yearling Yard	Perchlorate	2.0	ug/l	J	Qualified due to laboratory duplicate RPD exceedance
16 E. Yearling	Perchlorate	< 2.0	ug/l	UJ	Qualified due to laboratory duplicate RPD exceedance
604 E. Yearling	Perchlorate	< 2.0	ug/l	UJ	Qualified due to laboratory duplicate RPD exceedance
520 E. Yearling	Perchlorate	< 2.0	ug/l	UJ	Qualified due to laboratory duplicate RPD exceedance
424 E. Yearling	Perchlorate	< 2.0	ug/l	UJ	Qualified due to laboratory duplicate RPD exceedance
106 W. Yearling	Perchlorate	< 2.0	ug/l	UJ	Qualified due to laboratory duplicate RPD exceedance
412 E. Yearling	Perchlorate	< 2.0	ug/l	UJ	Qualified due to laboratory duplicate RPD exceedance
25825 N. 1st Place	Perchlorate	< 2.0	ug/l	UJ	Qualified due to laboratory duplicate RPD exceedance

Notes:

ug/l = microgram per liter

J = Estimated value

UJ = Estimated detection limit

RPD = relative percent difference

Table C-3
Completeness Summary
Third Quarter 2011 Groundwater Monitoring Report

Parameters	Total Number of Samples	Number in Contractual Compliance	Percent Contractual Compliance	Number of Usable Results	Percent Technical Compliance
Inorganics					
Perchlorate (Method 314.0)	12	0 ^a	0	12	100
Perchlorate (Method 332.0)	12	12	100	12	100
TOTALS	24	12	50	24	100

a = Qualified due to laboratory duplicate RPD exceedance

Notes:

Percent Contractual Compliance = (Number of contract compliant results/Number of reported results) * 100

Percent Technical Compliance = (Number of usable results/Number of reported results) * 100

1.0 INTRODUCTION

This summary presents data verification results for groundwater samples collected from Universal Propulsion Company, Inc. (UPCO) wells during the February and March 2011 monitoring event. The data review was performed in accordance with the procedures specified in the Remedial Investigation Workplan Vol. II Quality Assurance Project Plan (QAPP) (Hargis+Associates, Inc. 2004), USEPA Functional Guidelines for Organic and Inorganic Data Review (USEPA, 1999 and 2002), and quality assurance and control parameters set by the project laboratory (TestAmerica).

A total of 17 groundwater samples were collected and submitted to TestAmerica for the following parameters:

- perchlorate by USEPA Methods 314.0 and 332.0;
- metals by USEPA Methods 200.8 and 245.1; and
- volatile organic compounds (VOCs) by USEPA Method 8260B.

Additionally, nine field quality assurance samples (i.e., field duplicate and trip blanks) were collected and analyzed as part of the sampling program. Table A-1 lists the samples and associated analytical parameters.

1.1 Data Quality Assessment

Sample results were subject to a Level III data review that includes an evaluation of the following quality control (QC) parameters:

- sample receipt temperatures;
- holding times;
- blank contamination (method blanks and trip blank);
- laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recovery and relative percent difference (RPD);
- matrix spike/matrix spike duplicate (MS/MSD) recovery and RPD;
- field duplicates and lab duplicates; and
- surrogates (for organic parameters).

Qualified results are summarized in Table A-2.

1.2 Data Qualifiers

The data qualifiers used to qualify analytical results associated with QC parameters outside data quality objectives are defined below:

- J The analyte was positively identified; however, the result should be considered an estimated value.
- UJ The reporting limit is considered an estimated value.
- R Quality control indicates that the data is not usable

Results qualified as “J” or UJ” are of acceptable data quality and may be used quantitatively to fulfill the objectives of the analytical program, per USEPA guidelines.

1.3 Sample Preservation and Temperature Upon Laboratory Receipt

Samples were received at the correct temperature ($4\pm 2^{\circ}$ Celsius) at the project laboratory. Samples received by the laboratory on March 1, 2011 had a temperature of 0.8° Celsius. This temperature outlier did not significantly impact sample results; therefore, data qualification was not required.

1.4 Holding Times

Samples were extracted and analyzed within the holding time limits set by the respective USEPA methods.

1.5 Blank Contamination

Method blanks and trip blanks were performed at the required frequencies. Target compounds were not detected in the blanks.

1.6 LCS/LCS Duplicate Recovery and Relative Percent Difference

LCS/LCS duplicates were performed at the required frequency and were evaluated based on the following criteria:

- If the analyte recovery was above acceptance limits for LCS or LCS duplicate but the analyte was not detected in the associated batch, then data qualification was not required.
- If the analyte recovery was above acceptance limits for LCS or LCS duplicate and the analyte was detected in the associated batch, then the analyte results were qualified “J”.

- If the analyte recovery was below acceptance limits for LCS or LCS duplicate then the analyte results in the associated analytical batch were qualified (“UJ” for non-detects and “J” for detected results).
- If the analyte recovery was less than 10 percent, the analyte results in the associated analytical batch were rejected and qualified “R”.

Percent recoveries and RPDs for the LCS/LCS duplicate were within acceptance limits except for the following:

- The LCS and LCS duplicate for analytical batch 11C0051 had high recoveries for vinyl acetate (164 and 167 percent, respectively). Data qualification was not required because the analyte was not detected in the associated samples.
- The LCS and LCS duplicate for analytical batch 11C0246 had high recoveries for vinyl acetate (176 and 166 percent, respectively). Data qualification was not required because the analyte was not detected in the associated samples.
- The LCS and LCS duplicate for analytical batch 11C0014 had high recoveries for vinyl acetate (155 and 162 percent, respectively). Data qualification was not required because the analyte was not detected in the associated samples.
- The RPD for the LCS and LCS duplicate recoveries for iodomethane was high (12 percent) for analytical batch 11C0014. Data qualification was not required because the LCS, LCS duplicate, MS, and MSD were all within control limits.
- The LCS and LCS duplicate for analytical batch 11D0228 had high recoveries for iodomethane (164 and 149 percent, respectively). Data qualification was not required because the analyte was not detected in the associated samples.

1.7 MS/MSD Recovery and RPD

MS/MSD samples were performed at the required frequency and were evaluated by the following criteria:

- If MS or MSD recovery for an analyte is above acceptance limits but the analyte is not detected in the associated analytical batch, then data qualification was not required.
- If MS or MSD recovery for an analyte is above acceptance limits and the analyte is detected in the associated analytical batch, the analyte results were qualified “J”.
- Low MS/MSD recoveries for inorganic parameters result in sample qualification of the associated analytical batch.

- Low MS/MSD recoveries for organic parameters result in the data qualification of the unspiked sample rather than the analytical batch.
- Results were not qualified based on non-project specific MS/MSD (i.e., batch QC) recoveries.

Percent recoveries and RPDs for the MS/MSD duplicate were within acceptance limits except for the following:

- The MS/MSD for analytical batch 11C0051 had high recoveries for vinyl acetate (164 and 162 percent). Data qualification was not required because the spiked sample was non project-specific (i.e., batch QC).
- The MS/MSD for analytical batch 11C0246 had high recoveries for vinyl acetate (182 and 164 percent). Data qualification was not required because the analyte was not detected in the associated samples.
- The MS/MSD for analytical batch 11C0072 had low recoveries for silver. Data were qualified “UJ” for samples MW-8, MW-9, MW-12, MW-14, and MW-15 to indicate a potential low bias.
- The MS/MSD for analytical batch 11B1017 had low recoveries for silver. Data qualification was not required because the spiked samples were non project-specific (i.e., batch QC).
- The RPDs for the MS/MSD recoveries for analytical batch 11D0228 were high for MEK and 1,1-dichloroethene (44 and 28 percent, respectively). Data qualification was not required because the spiked sample was non project-specific (i.e., batch QC).
- The MS/MSD for analytical batch 11C1198 had low recoveries for silver (12 and 17 percent). Since both MW-18 and PW-1 were spiked, and the MS/MSD recoveries were within control limits for MW-18, data was qualified “UJ” for sample PW-1 to indicate a potential low bias.
- The MSD for analytical batch 11D0910 had low recovery for perchlorate (76 percent). Data was qualified “UJ” to indicate a potential low bias.

1.8 Lab Duplicates

Laboratory duplicates are evaluated based on the acceptance limits set forth by the project laboratory’s guidelines. Laboratory duplicates were performed at the appropriate frequencies for perchlorate. Laboratory duplicates were within acceptance limits except for the following:

- The laboratory duplicate RPDs for analytical batch 11C0020 were above acceptance limits for perchlorate (35 and 42 percent). Data qualification was not required because the duplicate was non project-specific (i.e., batch QC).

1.9 Field Duplicates

One field duplicate was collected during this monitoring event and submitted for analysis. The RPD between the field duplicate and its associated sample was calculated and is presented in Table A-3. The field duplicate was evaluated by the following criteria:

- If an analyte is detected at a concentration greater than five times the method reporting limit, the RPD should be less than 25 percent.
- If an analyte is detected between the sample and field duplicate less than five times the method reporting limit, the difference between the sample and the field duplicate should not exceed the method reporting limit.

The field duplicate met acceptance criteria.

1.9 Surrogates

Surrogates for all organic parameters were recovered within acceptance limits.

2.0 Completeness Summary

Two types of completeness were calculated for this project: contract and technical. As specified in the project DQOs, the goal for completeness for the site is 90 percent. Results indicated as not reportable by the laboratory are not included in the completeness calculations. The following equations are used to calculate the two types of completeness.

$$\begin{aligned} \% \text{ Contract Completeness} = \\ & \left(\frac{\text{Number of contract compliant results}}{\text{Number of reported results}} \right) \\ & \quad \times 100 \end{aligned}$$

$$\begin{aligned} \% \text{ Technical Completeness} = \\ & \left(\frac{\text{Number of usable results}}{\text{Number of reported results}} \right) \\ & \quad \times 100 \end{aligned}$$

The overall contract completeness included the evaluation of the protocol and contract deviations for holding times, blanks, MS/MSD, and LCS/LCSD attained for the field samples was 96 percent. The technical completeness, which included all QC parameters, attained for the field samples was 100 percent. The completeness results are provided in Table A-4. All of the results were considered usable for the intended purposes and the project DQOs have been met.

Table A-1
Sampling and Analysis Schedule
First Quarter 2011 Groundwater Monitoring Report

Sample ID	Lab ID	Collected	Sample Type	Parameters
TB022511-1	PUB1607-01	2/25/2011	TB	VOCs
TB022511-2	PUB1607-02	2/25/2011	TB	VOCs
MW-4	PUB1607-03	2/25/2011	N	VOCs, 1,4-Dioxane, Metals, Perchlorate
MW-10	PUB1607-04	2/25/2011	N	VOCs, 1,4-Dioxane, Metals, Perchlorate
MW-7	PUB1607-05	2/25/2011	N	VOCs, 1,4-Dioxane, Metals, Perchlorate
MW-3	PUB1607-06	2/25/2011	N	VOCs, 1,4-Dioxane, Metals, Perchlorate
MW-6	PUB1607-07	2/25/2011	N	VOCs, 1,4-Dioxane, Metals, Perchlorate
TB022811-1	PUB1675-01	2/28/2011	TB	VOCs
TB022811-2	PUB1675-02	2/28/2011	TB	1,4-Dioxane
MW-11	PUB1675-03	2/28/2011	N	VOCs, 1,4-Dioxane, Metals, Perchlorate
TB030111-1	PUC0073-01	3/1/2011	TB	VOCs
TB030111-2	PUC0073-02	3/1/2011	TB	1,4-Dioxane
MW-14	PUC0073-03	3/1/2011	N	VOCs, 1,4-Dioxane, Metals, Perchlorate
MW-15	PUC0073-04	3/1/2011	N	VOCs, 1,4-Dioxane, Metals, Perchlorate
MW-8	PUC0073-05	3/1/2011	N	VOCs, 1,4-Dioxane, Metals, Perchlorate
MW-9	PUC0073-06	3/1/2011	N	VOCs, 1,4-Dioxane, Metals, Perchlorate
MW-12	PUC0073-07	3/1/2011	N	VOCs, 1,4-Dioxane, Metals, Perchlorate
TB030211-1	PUC0174-01	3/2/2011	TB	VOCs
TB030211-2	PUC0174-02	3/2/2011	TB	1,4-Dioxane
MW-13	PUC0174-03	3/2/2011	N	VOCs, 1,4-Dioxane, Metals, Perchlorate
MW-5	PUC0174-04	3/2/2011	N	VOCs, 1,4-Dioxane, Metals, Perchlorate
MW-1	PUC0174-05	3/2/2011	N	VOCs, 1,4-Dioxane, Metals, Perchlorate
MW-2	PUC0174-06	3/2/2011	N	VOCs, 1,4-Dioxane, Metals, Perchlorate
FD030211-01	PUC0174-07	3/2/2011	FD of MW-2	VOCs, 1,4-Dioxane, Metals, Perchlorate
TB033011-1	PUC1922-01	3/30/2011	TB	VOCs
TB033011-2	PUC1922-02	3/30/2011	TB	1,4-Dioxane
MW-18	PUC1922-03	3/30/2011	N	VOCs, 1,4-Dioxane, Metals, Perchlorate
PW-1	PUC1922-04	3/30/2011	N	VOCs, 1,4-Dioxane, Metals, Perchlorate
MW-4	PUB1616-01	2/25/2011	N	Perchlorate by EPA Method 332.0
MW-10	PUB1617-01	2/25/2011	N	Perchlorate by EPA Method 332.0
MW-7	PUB1618-01	2/25/2011	N	Perchlorate by EPA Method 332.0
MW-3	PUB1619-01	2/25/2011	N	Perchlorate by EPA Method 332.0
MW-11	PUB1676-01	2/28/2011	N	Perchlorate by EPA Method 332.0
MW-15	PUC0074-01	3/1/2011	N	Perchlorate by EPA Method 332.0
MW-14	PUC0075-01	3/1/2011	N	Perchlorate by EPA Method 332.0
MW-8	PUC0076-01	3/1/2011	N	Perchlorate by EPA Method 332.0
MW-9	PUC0077-01	3/1/2011	N	Perchlorate by EPA Method 332.0
MW-12	PUC0078-01	3/1/2011	N	Perchlorate by EPA Method 332.0
MW-18	PUC1923-01	3/30/2011	N	Perchlorate by EPA Method 332.0

Notes:

N = normal field sample

FD = field duplicate

TB = trip blank

Metals = arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver

VOCs = volatile organic compounds by EPA Method 8260B.

Perchlorate = EPA Method 314.0

Table A-2
Qualified Results
First Quarter 2011 Groundwater Monitoring Report

Sample ID	Analyte	Result	Units	Data Qualifier	Comments
MW-14	Silver	<0.0010	mg/l	UJ	Qualified due to low MS/MSD recovery
MW-15	Silver	<0.0010	mg/l	UJ	Qualified due to low MS/MSD recovery
MW-8	Silver	<0.0010	ug/l	UJ	Qualified due to low MS/MSD recovery
MW-9	Silver	<0.0010	ug/l	UJ	Qualified due to low MS/MSD recovery
MW-12	Silver	<0.0010	ug/l	UJ	Qualified due to low MS/MSD recovery
PW-1	Silver	<0.0010	ug/l	UJ	Qualified due to low MS/MSD recovery
MW-18	Perchlorate	<0.50	ug/l	UJ	Qualified due to low MS/MSD recovery

Notes:

ug/l = microgram per liter

UJ = Estimated detection limit

MS/MSD = Matrix spike/matrix spike duplicate samples

Table A-3
Field Duplicate Summary
First Quarter 2011 Groundwater Monitoring Report

Sample ID / Field Duplicate ID	Parameters	Sample Result	Field Duplicate Result	RPD (%)
MW-2 / FD030211-01	Organics (ug/l)			
	VOCs by EPA 8260B	ND	ND	NC
	1,4-Dioxane	2.6	2.6	<1.0
	Inorganics (mg/l)			
	Arsenic	0.0086	0.0087	1.2
	Barium	0.070	0.071	1.4
	Cadmium	<0.0010	<0.0010	NC
	Chromium	0.014	0.014	<1.0
	Lead	0.010	0.0082	20
	Mercury	<0.00020	<0.00020	NC
	Selenium	<0.0020	<0.0020	NC
	Silver	<0.0010	<0.0010	NC
	Perchlorate by EPA 314.0	87	92	10

Table A-4
Completeness Summary
First Quarter 2011 Groundwater Monitoring Report

Parameters	Total Number of Samples	Number in Contractual Compliance	Percent Contractual Compliance	Number of Usable Results	Percent Technical Compliance
Inorganics					
Arsenic	17	17	100	17	100
Barium	17	17	100	17	100
Cadmium	17	17	100	17	100
Chromium	17	17	100	17	100
Lead	17	17	100	17	100
Mercury	17	17	100	17	100
Selenium	17	17	100	17	100
Silver	17	11 ^a	65	17	100
Perchlorate (Method 314.0)	17	17	100	17	100
Perchlorate (Method 332.0)	11	10 ^a	91	11	100
Organics					
VOCs (Method 8260B)	17	17	100	17	100
1,4-Dioxane	17	17	100	17	100
TOTAL	198	191	96	198	100

Notes:

Number of samples used in completeness calculations includes field samples, but not field duplicates or blanks.

Percent Contractual Compliance = (Number of contract compliant results/Number of reported results) * 100

Percent Technical Compliance = (Number of usable results/Number of reported results) * 100

^a Qualified due to low MS/MSD recovery

1.0 INTRODUCTION

This summary presents data verification results for groundwater samples collected from Universal Propulsion Company, Inc. (UPCO) wells during the April 2011 monitoring event. The data review was performed in accordance with the procedures specified in the Remedial Investigation Workplan Vol. II Quality Assurance Project Plan (QAPP) (Hargis+Associates, Inc. 2004), USEPA Functional Guidelines for Organic and Inorganic Data Review (USEPA, 1999 and 2002), and quality assurance and control parameters set by the project laboratory (TestAmerica).

A total of 3 groundwater samples were collected and submitted to TestAmerica for the following parameters:

- alkalinity by Standard Method 2320B;
- inorganics by USEPA Methods 300.0 and 314.0;
- metals by USEPA Methods 200.7, 200.8, and 245.1;
- total dissolved solids by Standard Method 2540C; and
- volatile organic compounds (VOCs) by USEPA Method 8260B.

Additionally, three field quality assurance samples (i.e., field duplicate and trip blanks) were collected and analyzed as part of the sampling program. Table B-1 lists the samples and associated analytical parameters.

2.0 QUALITY CONTROL PARAMETERS REVIEWED

Sample results were subject to a Level III data review that includes an evaluation of the following quality control (QC) parameters:

- Chain-of-Custody
- Sample preservation and Temperature Upon Laboratory Receipt;
- Holding Times;
- Blank Contamination (method blanks, trip blanks);
- Surrogate Recovery (for organic parameters);
- Laboratory Control Sample (LCS) Recovery and Relative Percent Difference (RPD);
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recovery and RPD; and
- Duplicates (field duplicates).

The data qualifiers used to qualify the analytical results associated with QC parameters outside of the established data quality objectives are defined below:

- J The analyte was positively identified; however, the result should be considered an estimated value.
- UJ The reporting limit is considered an estimated value.
- R Quality control indicates that the data is not usable.

Results qualified as "J" or UJ" are of acceptable data quality and may be used quantitatively to fulfill the objectives of the analytical program, per EPA guidelines.

The results associated with this sampling event required no data qualification.

2.1 CHAIN-OF-CUSTODY

The chain-of-custody documentation associated with project samples was found to be complete. Chain-of-custodies included sample identifications, date and time of collection, requested parameters, and relinquished/received signatures.

2.2 SAMPLE PRESERVATION AND TEMPERATURE UPON LABORATORY RECEIPT

Samples collected were received preserved and intact at the project laboratory. Samples were received at the correct temperature ($4\pm 2^{\circ}$ Celsius) at the project laboratory.

2.3 HOLDING TIMES

Samples were extracted and analyzed within the holding time limits set by the respective USEPA methods.

2.4 BLANK CONTAMINATION

2.4.1 Method Blank

Method blanks were analyzed at the appropriate frequency as specified in the project laboratory's QAPP. Target compounds were not detected in method blanks.

2.4.2 Trip Blank

Trip blanks were analyzed at the appropriate frequency as specified in the Remedial Investigation Workplan Vol. II Quality Assurance Project Plan (QAPP) (Hargis+Associates, Inc. 2004). Target compounds were not detected in the trip blanks.

2.5 SURROGATE RECOVERY

Surrogate recoveries for the organic analyses were within laboratory acceptance limits.

2.6 LCS RECOVERY AND RPD

LCS/LCS duplicates were performed at the required frequency and were evaluated based on the following criteria:

- If the analyte recovery was above acceptance limits for the LCS or LCS duplicate, but the analyte was not detected in the associated batch, then data qualification was not required.
- If the analyte recovery was above acceptance limits for the LCS or LCS duplicate and the analyte was detected in the associated batch, then the analyte results were qualified "J".
- If the analyte recovery was below acceptance limits for LCS or LCS duplicate then the analyte results in the associated analytical batch were qualified ("UJ" for non-detects and "J" for detected results).
- If the analyte recovery was less than 10 percent, the analyte results in the associated analytical batch were rejected and qualified "R".

LCS/LCS duplicate percent recoveries and RPDs were within acceptance limits.

2.7 MS/MSD RECOVERY AND RPD

MS/MSD samples were performed at the required frequency and were evaluated by the following criteria:

- If the MS or MSD recovery for an analyte was above acceptance limits but the analyte was not detected in the associated analytical batch, then data qualification was not required.
- If the MS or MSD recovery for an analyte was above acceptance limits and the analyte was detected in the associated analytical batch, then analyte results were qualified "J".
- Low MS/MSD recoveries for inorganic parameters result in sample qualification of the associated analytical batch.
- Low MS/MSD recoveries for organic parameters result in the data qualification of the unspiked sample rather than the analytical batch.
- Results were not qualified based on non-project specific MS/MSD (i.e., batch QC) recoveries.

MS/MSD percent recoveries and RPDs were within acceptance limits except for the following:

- The MS percent recovery associated with the analytical batch 11D1069 was outside of acceptance limits for calcium, and the MS and MS duplicate percent recoveries were outside acceptance limits for sodium. Data qualification was not required because the spiked samples were non project-specific (i.e., batch QC).
- The MS percent recovery and RPD associated with the analytical batch 11E0034 were outside acceptance limits for mercury. Data qualification was not required because the spiked sample was non project-specific (i.e., batch QC).

2.8 DUPLICATES

2.8.1 Laboratory Duplicates

Laboratory duplicates are evaluated based on the acceptance limits set forth by the project laboratory's guidelines. Laboratory duplicates were performed at the appropriate frequencies for the following parameters: perchlorate, alkalinity, and total dissolved solids.

2.8.2 Field Duplicates

One field duplicate was collected during this monitoring event and submitted for analysis. The RPD between the field duplicate and its associated sample was calculated and presented in Table B-2. The field duplicate was evaluated by the following criteria:

- If an analyte is detected at a concentration greater than five times the method reporting limit, the RPD should be less than 25 percent.
- If an analyte is detected between the sample and field duplicate less than five times the method reporting limit, the difference between the sample and the field duplicate should not exceed the method reporting limit.

The field duplicate met acceptance criteria.

3.0 COMPLETENESS SUMMARY

Two types of completeness were calculated for this project: contract and technical. Results indicated as not reportable by the laboratory are not included in the completeness calculations. The following equations were used to calculate the two types of completeness:

$$\% \text{ Contract Completeness} = \left(\frac{\text{Number of contract compliant results}}{\text{Number of reported results}} \right) \times 100$$

$$\% \text{ Technical Completeness} = \left(\frac{\text{Number of usable results}}{\text{Number of reported results}} \right) \times 100$$

The overall contract completeness, which includes the evaluation of protocol and contract deviations, which includes the evaluation of the QC parameters listed in Section 2.0, was 100 percent. The technical completeness attained for this monitoring period was 100 percent. The completeness results are provided in Table B-3. The results for the performance monitoring events were considered usable for the intended purposes and the project DQOs have been met.

Table B-1
Sampling and Analysis Schedule
Second Quarter 2011 Groundwater Monitoring Report

Sample ID	Lab ID	Collected	Sample Type	Parameters
TB042811-1	PUD1699-01	4/28/2011	TB	VOCs
TB042811-2	PUD1699-02	4/28/2011	TB	1,4-Dioxane
MW-17	PUD1699-03	4/28/2011	N	VOCs, 1,4-Dioxane, Metals, Inorganics, Total Dissolved Solids, Alkalinity
MW-16	PUD1699-04	4/28/2011	N	VOCs, 1,4-Dioxane, Metals, Inorganics, Total Dissolved Solids, Alkalinity
MW-19	PUD1699-05	4/28/2011	N	VOCs, 1,4-Dioxane, Metals, Inorganics, Total Dissolved Solids, Alkalinity
FD042811-01	PUD1699-06	4/28/2011	FD of MW-19	VOCs, 1,4-Dioxane, Metals, Inorganics, Total Dissolved Solids, Alkalinity

Notes:

VOCs = volatile organic compounds analyzed by USEPA Method 8260B

Metals = arsenic, barium, cadmium, calcium, chromium, lead, magnesium, mercury, potassium, selenium, silver, and sodium.

Inorganics = chloride, nitrate-n, and sulfate by EPA method 300.0 and perchlorate by EPA method 314.0

N = normal field sample

TB = trip blank

Table B-2
Field Duplicate Summary
Second Quarter 2011 Monitoring Report

Sample ID / Field Duplicate ID	Parameters	Sample Result	Field Duplicate Result	RPD (%)
MW-19/ FD042811-01	VOCs (ug/l)			
	All analytes	ND	ND	NC
	1,4-Dioxane	ND	ND	NC
	Metals (mg/l)			
	Arsenic	0.014	0.014	<1.0
	Barium	0.046	0.045	2.2
	Cadmium	<0.0010	<0.0010	NC
	Calcium	30	30	<1.0
	Chromium	0.024	0.025	4.1
	Lead	0.0019	0.0015	0.0004
	Magnesium	12	12	<1.0
	Mercury	<0.00020	<0.00020	NC
	Potassium	7.1	7.5	0.4
	Selenium	0.0028	0.0027	0.0001
	Silver	<0.0010	<0.0010	NC
	Sodium	39	37	5.3
	Inorganics (mg/l)			
	Chloride	22	22	<1.0
	Nitrate-N	7.8	7.8	<1.0
	Sulfate	12	12	<1.0
	Perchlorate (ug/l)	55000	53000	3.7
	Alkalinity (mg/l)			
	Alkalinity as CaCO ₃	120	110	8.7
	Bicarbonate Alkalinity as CaCO ₃	120	110	8.7
	Carbonate Alkalinity as CaCO ₃	<6.0	<6.0	NC
	Hydroxide Alkalinity as CaCO ₃	<6.0	<6.0	NC
	Alkalinity, Phenolphthalein	<6.0	<6.0	NC
	Total Dissolved Solids (mg/l)			
	Total Dissolved Solids	350	350	<1.0

Notes:

RPD = Relative percent difference; [(difference)/(average)]*100

ND = No analytes detected

NC = Not calculated

Field duplicate RPD acceptance limits is 25 percent for results greater than 5 times the reporting limit; for results less than 5 times the reporting limit, the difference between sample and field duplicate results should be less than the reporting limit

Table B-3
Completeness Summary
Second Quarter 2011 Groundwater Monitoring Report

Parameters	Total Number of Samples	Number in Contractual Compliance	Percent Contractual Compliance	Number of Usable Results	Percent Technical Compliance
Volatile Organic Compounds					
All analytes	3	3	100	3	100
1,4-Dioxane	3	3	100	3	100
Metals					
Arsenic	3	3	100	3	100
Barium	3	3	100	3	100
Cadmium	3	3	100	3	100
Calcium	3	3	100	3	100
Chromium	3	3	100	3	100
Lead	3	3	100	3	100
Magnesium	3	3	100	3	100
Mercury	3	3	100	3	100
Potassium	3	3	100	3	100
Selenium	3	3	100	3	100
Silver	3	3	100	3	100
Sodium	3	3	100	3	100
Inorganics					
Chloride	3	3	100	3	100
Nitrate-N	3	3	100	3	100
Sulfate	3	3	100	3	100
Perchlorate	3	3	100	3	100
Alkalinity					
Alkalinity as CaCO ₃	3	3	100	3	100
Bicarbonate Alkalinity as CaCO ₃	3	3	100	3	100
Carbonate Alkalinity as CaCO ₃	3	3	100	3	100
Hydroxide Alkalinity as CaCO ₃	3	3	100	3	100
Alkalinity, Phenolphthalein	3	3	100	3	100
Total Dissolved Solids					
Total Dissolved Solids	3	3	100	3	100

Notes:

Number of samples used in completeness calculations includes field samples, but not field duplicates or blanks.

Percent Contractual Compliance = (Number of contract compliant results/Number of reported results) * 100

Percent Technical Compliance = (Number of usable results/Number of reported results) * 100

1.0 INTRODUCTION

This summary presents data verification results for groundwater samples collected from Universal Propulsion Company, Inc. (UPCO) wells during the April 2011 monitoring event. The data review was performed in accordance with the procedures specified in the Remedial Investigation Workplan Vol. II Quality Assurance Project Plan (QAPP) (Hargis+Associates, Inc. 2004), USEPA Functional Guidelines for Inorganic Data Review (USEPA, 2002), and quality assurance and control parameters set by the project laboratory (TestAmerica).

A total of 7 groundwater samples were collected and submitted to TestAmerica for the following parameters:

- perchlorate by USEPA Method 332.0.

Table C-1 lists the samples and associated analytical parameters.

2.0 QUALITY CONTROL PARAMETERS REVIEWED

Sample results were subject to a Level III data review that includes an evaluation of the following quality control (QC) parameters:

- Chain-of-Custody
- Sample preservation and Temperature Upon Laboratory Receipt;
- Holding Times;
- Blank Contamination (method blanks, trip blanks);
- Laboratory Control Sample (LCS) Recovery;
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recovery and RPD; and
- Internal Standard Recovery.

The data qualifiers used to qualify the analytical results associated with QC parameters outside of the established data quality objectives are defined below:

- J The analyte was positively identified; however, the result should be considered an estimated value.
- UJ The reporting limit is considered an estimated value.
- R Quality control indicates that the data is not usable.

Results qualified as “J” or UJ” are of acceptable data quality and may be used quantitatively to fulfill the objectives of the analytical program, per EPA guidelines.

The results associated with this sampling event required no data qualification.

2.1 CHAIN-OF-CUSTODY

The chain-of-custody documentation associated with project samples was found to be complete. Chain-of-custodies included sample identifications, date and time of collection, requested parameters, and relinquished/received signatures.

2.2 SAMPLE PRESERVATION AND TEMPERATURE UPON LABORATORY RECEIPT

Samples collected were received preserved and intact at the project laboratory. Samples were received at the correct temperature ($4 \pm 2^\circ$ Celsius) at the project laboratory except the following:

- Samples collected on April 26, 2011 and April 27, 2011 were received at 1.4 and 0.2 degrees Celsius, respectively. These temperature outliers did not significantly impact the sample results; therefore, data qualification was not required.

2.3 HOLDING TIMES

Samples were extracted and analyzed within the holding time limit set by the respective USEPA method.

2.4 BLANK CONTAMINATION

2.4.1 Method Blank

Method blanks were analyzed at the appropriate frequency as specified in the project laboratory’s QAPP. Target compounds were not detected in method blanks.

2.5 LCS RECOVERY

LCS percent recoveries were performed at the required frequency and were evaluated based on the following criteria:

- If the analyte recovery was above acceptance limits for the LCS or LCS duplicate, but the analyte was not detected in the associated batch, then data qualification was not required.
- If the analyte recovery was above acceptance limits for the LCS or LCS duplicate and the analyte was detected in the associated batch, then the analyte results were qualified “J”.

- If the analyte recovery was below acceptance limits for LCS or LCS duplicate then the analyte results in the associated analytical batch were qualified (“UJ” for non-detects and “J” for detected results).
- If the analyte recovery was less than 10 percent, the analyte results in the associated analytical batch were rejected and qualified “R”.

LCS percent recoveries were within acceptance limits.

2.6 MS/MSD RECOVERY AND RPD

MS/MSD samples were performed at the required frequency and were evaluated by the following criteria:

- If the MS or MSD recovery for an analyte was above acceptance limits but the analyte was not detected in the associated analytical batch, then data qualification was not required.
- If the MS or MSD recovery for an analyte was above acceptance limits and the analyte was detected in the associated analytical batch, then analyte results were qualified “J”.
- Low MS/MSD recoveries for inorganic parameters result in sample qualification of the associated analytical batch.
- Low MS/MSD recoveries for organic parameters result in the data qualification of the unspiked sample rather than the analytical batch.
- Results were not qualified based on non-project specific MS/MSD (i.e., batch QC) recoveries.

MS/MSD percent recoveries and RPDs were within acceptance limits.

3.0 COMPLETENESS SUMMARY

Two types of completeness were calculated for this project: contract and technical. Results indicated as not reportable by the laboratory are not included in the completeness calculations. The following equations were used to calculate the two types of completeness:

$$\% \text{ Contract Completeness} = \left(\frac{\text{Number of contract compliant results}}{\text{Number of reported results}} \right) \times 100$$

$$\% \text{ Technical Completeness} = \left(\frac{\text{Number of usable results}}{\text{Number of reported results}} \right) \times 100$$

The overall contract completeness, which includes the evaluation of protocol and contract deviations, which includes the evaluation of the QC parameters listed in Section 2.0, was 100 percent. The technical completeness attained for this monitoring period was 100 percent. The completeness results are provided in Table C-2. The results for the performance monitoring events were considered usable for the intended purposes and the project DQOs have been met.

Table C-1
Sampling and Analysis Schedule
Second Quarter 2011 Groundwater Monitoring Report

Sample ID	Lab ID	Collected	Sample Type	Parameters
MW-5	PUD1525-01	4/26/2011	N	Perchlorate by USEPA Method 332.0
MW-1	PUD1525-02	4/26/2011	N	Perchlorate by USEPA Method 332.0
MW-2	PUD1525-03	4/26/2011	N	Perchlorate by USEPA Method 332.0
MW-6	PUD1587-01	4/27/2011	N	Perchlorate by USEPA Method 332.0
MW-13	PUD1587-02	4/27/2011	N	Perchlorate by USEPA Method 332.0
MW-16	PUD1694-01	4/28/2011	N	Perchlorate by USEPA Method 332.0
MW-17	PUD1695-01	4/28/2011	N	Perchlorate by USEPA Method 332.0

Notes:

N = normal field sample

Table C-2
Completeness Summary
Second Quarter 2011 Groundwater Monitoring Report

Parameters	Total Number of Samples	Number in Contractual Compliance	Percent Contractual Compliance	Number of Usable Results	Percent Technical Compliance
Inorganics					
Perchlorate 332.0	7	7	100	7	100

Notes:

Number of samples used in completeness calculations includes field samples and field duplicates, but not blanks.

Percent Contractual Compliance = (Number of contract compliant results/Number of reported results) * 100

Percent Technical Compliance = (Number of usable results/Number of reported results) * 100

1.0 INTRODUCTION

This summary presents data verification results for groundwater samples collected from Universal Propulsion Company, Inc. (UPCO) wells during the July, August, and September 2011 monitoring event. The data review was performed in accordance with the procedures specified in the Remedial Investigation Workplan Vol. II Quality Assurance Project Plan (QAPP) (Hargis+Associates, Inc. 2004), USEPA Functional Guidelines for Organic and Inorganic Data Review (USEPA, 1999 and 2002), and quality assurance and control parameters set by the project laboratory (TestAmerica).

A total of 20 groundwater samples were collected and submitted to TestAmerica for the following parameters:

- perchlorate by USEPA Methods 314.0 and 332.0;
- metals by USEPA Methods 200.7, 200.8 and 245.1;
- volatile organic compounds (VOCs) by USEPA Method 8260B; and
- 1,4-dioxane by USEPA Method 8260B.

Additionally, four field quality assurance samples (i.e., field duplicates and trip blanks) were collected and analyzed as part of the sampling program. Table B-1 lists the samples and associated analytical parameters.

1.1 Data Quality Assessment

Sample results were subject to a Level III data review that includes an evaluation of the following quality control (QC) parameters:

- sample receipt temperatures;
- holding times;
- blank contamination (method blanks and trip blank);
- laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recovery and relative percent difference (RPD);
- matrix spike/matrix spike duplicate (MS/MSD) recovery and RPD;
- field duplicates and lab duplicates; and
- surrogates (for organic parameters).

Qualified results are summarized in Table B-2.

1.2 Data Qualifiers

The data qualifiers used to qualify analytical results associated with QC parameters outside data quality objectives are defined below:

- J The analyte was positively identified; however, the result should be considered an estimated value.
- UJ The reporting limit is considered an estimated value.
- R Quality control indicates that the data is not usable

Results qualified as "J" or UJ" are of acceptable data quality and may be used quantitatively to fulfill the objectives of the analytical program, per USEPA guidelines.

1.3 Sample Preservation and Temperature Upon Laboratory Receipt

Samples were received preserved and intact at the project laboratory. The samples were received by the laboratory at the correct temperature ($4\pm 2^{\circ}$ Celsius).

1.4 Holding Times

Samples were extracted and analyzed within the holding time limits set by the respective USEPA methods.

1.5 Blank Contamination

Method blanks and trip blanks were performed at the required frequencies. Target compounds were not detected in the blanks.

1.6 LCS/LCS Duplicate Recovery and Relative Percent Difference

LCS/LCS duplicates were performed at the required frequency and were evaluated based on the following criteria:

- If the analyte recovery was above acceptance limits for LCS or LCS duplicate but the analyte was not detected in the associated batch, then data qualification was not required.
- If the analyte recovery was above acceptance limits for LCS or LCS duplicate and the analyte was detected in the associated batch, then the analyte results were qualified "J".
- If the analyte recovery was below acceptance limits for LCS or LCS duplicate then the analyte results in the associated analytical batch were qualified ("UJ" for non-detects and "J" for detected results).

- If the analyte recovery was less than 10 percent, the analyte results in the associated analytical batch were rejected and qualified “R”.

Percent recoveries and RPDs for the LCS/LCS duplicate were within acceptance limits.

1.7 MS/MSD Recovery and RPD

MS/MSD samples were performed at the required frequency and were evaluated by the following criteria:

- If MS or MSD recovery for an analyte is above acceptance limits but the analyte is not detected in the associated analytical batch, then data qualification was not required.
- If MS or MSD recovery for an analyte is above acceptance limits and the analyte is detected in the associated analytical batch, the analyte results were qualified “J”.
- Low MS/MSD recoveries for inorganic parameters result in sample qualification of the associated analytical batch.
- Low MS/MSD recoveries for organic parameters result in the data qualification of the unspiked sample rather than the analytical batch.
- Results were not qualified based on non-project specific MS/MSD (i.e., batch QC) recoveries.

Percent recoveries and RPDs for the MS/MSD duplicate were within acceptance limits except for the following:

- The MS/MSD recoveries for perchlorate (23 and -60 percent) were below the acceptance limits (80 to 120 percent) for analytical batch 11H0583. Data qualification was not required because the spiked sample was non project-specific (i.e., batch QC).
- The MS/MSD recoveries for perchlorate (64 and 66 percent) were below the acceptance limits (80 to 120 percent) for analytical batch 11H0224. Data qualification was not required because the spiked sample was non project-specific (i.e., batch QC).
- The MSD recovery for perchlorate (78 percent) was below the acceptance limits (80 to 120 percent) for analytical batch 11H0582. Data qualification was not required because the MS and LCS recoveries were within acceptance limits.

1.8 Lab Duplicates

Laboratory duplicates are evaluated based on the acceptance limits set forth by the project laboratory's guidelines. Laboratory duplicates were performed at the appropriate frequencies for perchlorate. Laboratory duplicates were within acceptance limits except for the following:

- The laboratory duplicate RPD for analytical batch 11G1033 was above acceptance limits for perchlorate (38 percent). The laboratory duplicate sample is a private well sample collected near the UPCO monitoring wells (see Appendix B). Data was qualified "UJ" to indicate a potential bias.

1.9 Field Duplicates

Two field duplicates were collected during this monitoring event and submitted for analysis. The RPDs between the field duplicates and the associated samples were calculated and are presented in Table B-3. Field duplicates were evaluated by the following criteria:

- If an analyte is detected at a concentration greater than five times the method reporting limit, the RPD should be less than 25 percent.
- If an analyte is detected between the sample and field duplicate less than five times the method reporting limit, the difference between the sample and the field duplicate should not exceed the method reporting limit.

The field duplicates met acceptance criteria.

1.9 Surrogate Recovery

Surrogate recoveries for the organic analyses were within laboratory acceptance limits.

2.0 Completeness Summary

Two types of completeness were calculated for this project: contract and technical. As specified in the project DQOs, the goal for completeness for the site is 90 percent. Results indicated as not reportable by the laboratory are not included in the completeness calculations. The following equations are used to calculate the two types of completeness.

$$\begin{aligned} \% \text{ Contract Completeness} = & \\ & \left(\frac{\text{Number of contract compliant results}}{\text{Number of reported results}} \right) \\ & \times 100 \end{aligned}$$

$$\% \text{ Technical Completeness} =$$

$$\left(\frac{\text{Number of usable results}}{\text{Number of reported results}}\right) \times 100$$

The overall contract completeness included the evaluation of the protocol and contract deviations for holding times, blanks, MS/MSD, and LCS/LCSD attained for the field samples was 99 percent. The technical completeness, which included all QC parameters, attained for the field samples was 100 percent. The completeness results are provided in Table B-4. All of the results were considered usable for the intended purposes and the project DQOs have been met.

Table B-2
Qualified Results
Third Quarter 2011 Groundwater Monitoring Report

Sample ID	Analyte	Result	Units	Data Qualifier	Comments
MW-9	Perchlorate	< 2.0	ug/l	UJ	Qualified due to laboratory duplicate RPD exceedance

Notes:

ug/l = microgram per liter

UJ = estimated detection limit

MS/MSD = matrix spike/matrix spike duplicate samples

Table B-3
Field Duplicate Summary
Third Quarter 2011 Groundwater Monitoring Report

Sample ID / Field Duplicate ID	Parameters	Sample Result	Field Duplicate Result	RPD (%)
MW-18 / DUP	Inorganics (mg/l)			
	Arsenic	<0.10	<0.10	NC
	Barium	0.015	0.016	<1.0
	Cadmium	<0.0010	<0.0010	NC
	Chromium	<0.010	<0.010	NC
	Lead	<0.015	<0.015	NC
	Mercury	<0.00020	<0.00020	NC
	Selenium	<0.10	<0.10	NC
	Silver	<0.010	<0.010	NC
	Perchlorate by EPA 314.0 (ug/l)	<2.0	<2.0	NC
	Perchlorate by EPA 332.0 (ug/l)	<0.10	<0.10	NC
MW-2 / DUP	Organics (ug/l)			
	1,4-Dioxane	2.7	2.6	<1.0
	Inorganics (ug/l)			
	Perchlorate by EPA 314.0	84	83	<1.0

Notes:

mg/l = milligram per liter

ug/l = microgram per liter

RPD = relative percent difference; [(difference)/(average)]*100

ND = analyte was not detected

NC = not calculated

< = less than the method detection limit

Table B-4
Completeness Summary
Third Quarter 2011 Groundwater Monitoring Report

Parameters	Total Number of Samples	Number in Contractual Compliance	Percent Contractual Compliance	Number of Usable Results	Percent Technical Compliance
Inorganics					
Arsenic	2	2	100	2	100
Barium	2	2	100	2	100
Cadmium	2	2	100	2	100
Chromium	2	2	100	2	100
Lead	2	2	100	2	100
Mercury	2	2	100	2	100
Selenium	2	2	100	2	100
Silver	2	2	100	2	100
Perchlorate (Method 314.0)	20	20	100	20	100
Perchlorate (Method 332.0)	13	12 ^a	92	13	100
Organics					
VOCs	66	66	100	66	100
1,4-Dioxane	3	3	100	3	100
TOTAL	118	117	99	118	100

^a Qualified due to laboratory duplicate RPD exceedance

Notes:

Number of samples used in completeness calculations includes field samples, but not field duplicates or blanks.

Percent Contractual Compliance = (Number of contract compliant results/Number of reported results) * 100

Percent Technical Compliance = (Number of usable results/Number of reported results) * 100

RPD = relative percent difference

1.0 INTRODUCTION

This summary presents data verification results for soil-gas samples collected from the soil-vapor monitoring well at Universal Propulsion Company, Inc. (UPCO) during the February 2011 monitoring event. The data review was performed in accordance with the procedures specified in the Remedial Investigation Workplan Vol. II Quality Assurance Project Plan (QAPP) (Hargis+Associates, Inc. 2004), USEPA Functional Guidelines for Organic Data Review (USEPA, 1999), and quality assurance and control parameters set by the project laboratory (TestAmerica).

A total of 4 samples were collected and submitted to TestAmerica for the following parameters:

- volatile organic compounds (VOCs) by USEPA Method TO-15

Table C-1 lists the samples and associated analytical parameters.

1.1 Data Quality Assessment

Sample results were subject to a Level III data review that includes an evaluation of the following quality control (QC) parameters:

- sample receipt temperatures;
- holding times;
- method blanks;
- laboratory control samples/laboratory control sample duplicates (LCS); and
- common laboratory contaminants.

Qualified results are summarized in Table C-2.

1.2 Data Qualifiers

The data qualifiers used to qualify analytical results associated with QC parameters outside data quality objectives are defined below:

- J The analyte was positively identified; however, the result should be considered an estimated value.
- UJ The reporting limit is considered an estimated value.
- R Quality control indicates that the data is not usable

Results qualified as “J” or UJ” are of acceptable data quality and may be used quantitatively to fulfill the objectives of the analytical program, per USEPA guidelines. The results associated with this sampling event required no data qualification.

1.3 Sample Preservation and Temperature Upon Laboratory Receipt

Samples were received intact and at the correct temperature (ambient) at the project laboratory.

1.4 Holding Times

Samples were extracted and analyzed within the holding time limits set by the respective USEPA methods.

1.5 Blank Contamination

Method blanks were performed at the required frequencies. Target compounds were not detected in the blanks.

1.6 LCS/LCS Duplicate Recovery and Relative Percent Difference

LCS/LCS duplicates were performed at the required frequency and were evaluated based on the following criteria:

- If the analyte recovery was above acceptance limits for LCS or LCS duplicate but the analyte was not detected in the associated batch, then data qualification was not required.
- If the analyte recovery was above acceptance limits for LCS or LCS duplicate and the analyte was detected in the associated batch, then the analyte results were qualified “J”.
- If the analyte recovery was below acceptance limits for LCS or LCS duplicate then the analyte results in the associated analytical batch were qualified (“UJ” for non-detects and “J” for detected results).
- If the analyte recovery was less than 10 percent, the analyte results in the associated analytical batch were rejected and qualified “R”.

Percent recoveries and RPDs for the LCS/LCS duplicates were within acceptance limits.

1.7 Common Laboratory Contaminants

Per USEPA guidelines, common laboratory contaminants for VOC analysis are acetone, 2-butanone (MEK), cyclohexane, and methylene chloride. Analytical results are qualified if the detected sample concentration is less than 10 times the method reporting limit.

Common lab contaminant compounds were not detected in the samples associated with the monitoring events except for the following:

- Acetone was detected in samples SVMW-1-30-40, SVMW-1-90-100, SVMW-1-140-150, and SVMW-1-190-200 collected February 24, 2011. Data were qualified “J” to indicate a potential bias.
- Methylene chloride was detected in samples SVMW-1-30-40 and SVMW-1-90-100 collected February 24, 2011. Data were qualified “J” to indicate a potential bias.
- Cyclohexane was detected in sample SVMW-1-90-100 collected February 24, 2011. Data was qualified “J” to indicate a potential bias.
- 2-Butanone was detected in sample SVMW-1-140-150 collected February 24, 2011. Data was qualified “J” to indicate a potential bias.

1.8 Completeness Summary

Two types of completeness were calculated for this project: contract and technical. As specified in the project DQOs, the goal for completeness for the site is 90 percent. Results indicated as not reportable by the laboratory are not included in the completeness calculations. The following equations are used to calculate the two types of completeness.

$$\begin{aligned} & \% \text{ Contract Completeness} = \\ & \left(\frac{\text{Number of contract compliant results}}{\text{Number of reported results}} \right) \\ & \quad \times 100 \end{aligned}$$

$$\begin{aligned} & \% \text{ Technical Completeness} = \\ & \left(\frac{\text{Number of usable results}}{\text{Number of reported results}} \right) \\ & \quad \times 100 \end{aligned}$$

The overall contract completeness included the evaluation of the protocol and contract deviations for holding times, blanks, and LCS/LCSD attained for the field samples was 97 percent. The technical completeness, which included all QC parameters, attained for the field samples was 100 percent. The completeness results are provided in Table C-3. All of the results were considered usable for the intended purposes and the project DQOs have been met.

Table C-1
Sampling and Analysis Schedule
First Quarter 2011 Groundwater Monitoring Report

Sample ID	Lab ID	Collected	Sample Type	Parameters
SVMW-1-30-40	PUB1539-01	2/24/2011	N	VOCs
SVMW-1-90-100	PUB1539-02	2/24/2011	N	VOCs
SVMW-1-140-150	PUB1539-03	2/24/2011	N	VOCs
SVMW-1-190-200	PUB1539-04	2/24/2011	N	VOCs

Notes:

N = Normal sample

VOCs = volatile organic compounds, analyzed by USEPA Method TO-15

Table C-2
Qualified Results
First Quarter 2011 Groundwater Monitoring Report

Sample ID	Analyte	Result	Units	Data Qualifier	Comments
SVMW-1-30-40	Acetone	76	ug/m ³	J	Qualified due to presence of common laboratory contaminant
SVMW-1-30-40	Methylene chloride	1.0	ug/m ³	J	Qualified due to presence of common laboratory contaminant
SVMW-1-90-100	Acetone	25	ug/m ³	J	Qualified due to presence of common laboratory contaminant
SVMW-1-90-100	Cyclohexane	0.76	ug/m ³	J	Qualified due to presence of common laboratory contaminant
SVMW-1-90-100	Methylene chloride	3.0	ug/m ³	J	Qualified due to presence of common laboratory contaminant
SVMW-1-140-150	Acetone	46	ug/m ³	J	Qualified due to presence of common laboratory contaminant
SVMW-1-140-150	2-Butanone	9.6	ug/m ³	J	Qualified due to presence of common laboratory contaminant
SVMW-1-190-200	Acetone	45	ug/m ³	J	Qualified due to presence of common laboratory contaminant

Notes:
ug/m³ = microgram per cubic meter
J = Estimated result

Table C-3
Completeness Summary
First Quarter 2011 Groundwater Monitoring Report

Parameters	Total Number of Samples	Number in Contractual Compliance	Percent Contractual Compliance	Number of Usable Results	Percent Technical Compliance
Volatile Organic Compounds by EPA Method TO-15					
Acetone	4	0 ^a	0	4	100
2-Butanone	4	3 ^a	75	4	100
Cyclohexane	4	3 ^a	75	4	100
Methylene Chloride	4	2 ^a	50	4	100
All other analytes	264	264	100	264	100
TOTAL	280	272	97	280	100

Notes:

Percent Contractual Compliance = (Number of contract compliant results/Number of reported results) * 100

Percent Technical Compliance = (Number of usable results/Number of reported results) * 100

^a Qualified due to presence of common laboratory contaminant.

1.0 INTRODUCTION

This summary presents data verification results for groundwater samples collected from Universal Propulsion Company, Inc. (UPCO) wells during the October 2011 monitoring event. The data review was performed in accordance with the procedures specified in the Remedial Investigation Workplan Vol. II Quality Assurance Project Plan (QAPP) (Hargis+Associates, Inc. 2004), USEPA Functional Guidelines for Organic and Inorganic Data Review (USEPA, 1999 and 2002), and quality assurance and control parameters set by the project laboratory (TestAmerica).

A total of 7 groundwater samples were collected and submitted to TestAmerica for the following parameters:

- perchlorate by USEPA Method 314.0;
- volatile organic compounds (VOCs) by USEPA Method 8260B; and
- 1,4-dioxane by USEPA Method 8260B.

Additionally, two field quality assurance samples (i.e., field duplicate and trip blank) were collected and analyzed as part of the sampling program. Table A-1 lists the samples and associated analytical parameters.

1.1 Data Quality Assessment

Sample results were subject to a Level III data review that includes an evaluation of the following quality control (QC) parameters:

- sample receipt temperatures;
- holding times;
- blank contamination (method blanks and trip blank);
- laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recovery and relative percent difference (RPD);
- matrix spike/matrix spike duplicate (MS/MSD) recovery and RPD;
- field duplicates and lab duplicates; and
- surrogates (for organic parameters).

Results did not require qualification based on the data verification.

1.2 Data Qualifiers

The data qualifiers used to qualify analytical results associated with QC parameters outside data quality objectives are defined below:

- J The analyte was positively identified; however, the result should be considered an estimated value.
- UJ The reporting limit is considered an estimated value.
- R Quality control indicates that the data is not usable

Results qualified as "J" or UJ" are of acceptable data quality and may be used quantitatively to fulfill the objectives of the analytical program, per USEPA guidelines.

1.3 Sample Preservation and Temperature Upon Laboratory Receipt

Samples were received preserved and intact at the project laboratory. The samples were received by the laboratory at the correct temperature ($4 \pm 2^\circ$ Celsius).

1.4 Holding Times

Samples were extracted and analyzed within the holding time limits set by the respective USEPA methods.

1.5 Blank Contamination

Method blanks and trip blanks were performed at the required frequencies. Target compounds were not detected in the blanks, with the following exception:

- 1,2,3-Trichlorobenzene was detected in the method blank for analytical batch 11K0098. Data qualification was not required because 1,2,3-trichlorobenzene was not detected in the associated samples.

1.6 LCS/LCS Duplicate Recovery and Relative Percent Difference

LCS/LCS duplicates were performed at the required frequency and were evaluated based on the following criteria:

- If the analyte recovery was above acceptance limits for LCS or LCS duplicate but the analyte was not detected in the associated batch, then data qualification was not required.
- If the analyte recovery was above acceptance limits for LCS or LCS duplicate and the analyte was detected in the associated batch, then the analyte results were qualified "J".

- If the analyte recovery was below acceptance limits for LCS or LCS duplicate then the analyte results in the associated analytical batch were qualified (“UJ” for non-detects and “J” for detected results).
- If the analyte recovery was less than 10 percent, the analyte results in the associated analytical batch were rejected and qualified “R”.

Percent recoveries and RPDs for the LCS/LCS duplicate were within acceptance limits.

1.7 MS/MSD Recovery and RPD

MS/MSD samples were performed at the required frequency and were evaluated by the following criteria:

- If MS or MSD recovery for an analyte is above acceptance limits but the analyte is not detected in the associated analytical batch, then data qualification was not required.
- If MS or MSD recovery for an analyte is above acceptance limits and the analyte is detected in the associated analytical batch, the analyte results were qualified “J”.
- Low MS/MSD recoveries for inorganic parameters result in sample qualification of the associated analytical batch.
- Low MS/MSD recoveries for organic parameters result in the data qualification of the unspiked sample rather than the analytical batch.
- Results were not qualified based on non-project specific MS/MSD (i.e., batch QC) recoveries.

Percent recoveries and RPDs for the MS/MSD duplicate were within acceptance limits.

1.8 Lab Duplicates

Laboratory duplicates are evaluated based on the acceptance limits set forth by the project laboratory’s guidelines. Laboratory duplicates were performed at the appropriate frequencies for perchlorate. Laboratory duplicates were within acceptance limits.

1.9 Field Duplicates

One field duplicate was collected during this monitoring event and submitted for analysis. The RPDs between the field duplicate and the associated sample were calculated and are presented in Table A-2. The field duplicate was evaluated by the following criteria:

- If an analyte is detected at a concentration greater than five times the method reporting limit, the RPD should be less than 25 percent.
- If an analyte is detected between the sample and field duplicate less than five times the method reporting limit, the difference between the sample and the field duplicate should not exceed the method reporting limit.

The field duplicate met acceptance criteria.

1.9 Surrogate Recovery

Surrogate recoveries for the organic analyses were within laboratory acceptance limits.

2.0 Completeness Summary

Two types of completeness were calculated for this project: contract and technical. As specified in the project DQOs, the goal for completeness for the site is 90 percent. Results indicated as not reportable by the laboratory are not included in the completeness calculations. The following equations are used to calculate the two types of completeness.

$$\begin{aligned} & \% \text{ Contract Completeness} = \\ & \left(\frac{\text{Number of contract compliant results}}{\text{Number of reported results}} \right) \\ & \quad \times 100 \end{aligned}$$

$$\begin{aligned} & \% \text{ Technical Completeness} = \\ & \left(\frac{\text{Number of usable results}}{\text{Number of reported results}} \right) \\ & \quad \times 100 \end{aligned}$$

The overall contract completeness included the evaluation of the protocol and contract deviations for holding times, blanks, MS/MSD, and LCS/LCSD attained for the field samples was 100 percent. The technical completeness, which included all QC parameters, attained for the field samples was 100 percent. The completeness results are provided in Table A-3. All of the results were considered usable for the intended purposes and the project DQOs have been met.

Table A-1
Sampling and Analysis Schedule
Fourth Quarter 2011 Groundwater Monitoring Report

Sample ID	Lab ID	Collected	Sample Type	Parameters
PW-1	PUJ1621-01	10/25/2011	N	Perchlorate
MW-13	PUJ1621-02	10/26/2011	N	Perchlorate
MW-5	PUJ1621-03	10/26/2011	N	Perchlorate
MW-2	PUJ1701-01	10/27/2011	N	VOCs, 1,4-Dioxane, Perchlorate
MW-6	PUJ1701-02	10/27/2011	N	Perchlorate
MW-1	PUJ1701-03	10/27/2011	N	VOCs, 1,4-Dioxane, Perchlorate
MW-19	PUJ1701-04	10/27/2011	N	Perchlorate
FD102711	PUJ1701-05	10/27/2011	FD of MW-2	VOCs, 1,4-Dioxane, Perchlorate
TB102711	PUJ1701-06	10/27/2011	TB	VOCs, 1,4-Dioxane

Notes:

N = normal field sample

FD = field duplicate

TB = trip blank

VOCs = volatile organic compounds by EPA Method 8260B

Perchlorate = EPA Method 314.0

Table A-2
Field Duplicate Summary
Fourth Quarter 2011 Groundwater Monitoring Report

Sample ID / Field Duplicate ID	Parameters	Sample Result	Field Duplicate Result	RPD (%)
MW-2 / DUP	Organics (ug/l)			
	VOCs	ND	ND	NC
	1,4-Dioxane	2.8	2.7	<1.0
	Inorganics (ug/l)			
	Perchlorate	90	91	<1.0

Notes:

ug/l = microgram per liter

RPD = relative percent difference; [(difference)/(average)]*100

ND = analyte was not detected

NC = not calculated

< = less than the method detection limit

Table A-3
Completeness Summary
Fourth Quarter 2011 Groundwater Monitoring Report

Parameters	Total Number of Samples	Number in Contractual Compliance	Percent Contractual Compliance	Number of Usable Results	Percent Technical Compliance
Organics					
VOCs	132	132	100	132	100
1,4-Dioxane	2	2	100	2	100
Inorganics					
Perchlorate	7	7	100	7	100
TOTAL	141	141	100	141	100

Notes:

Number of samples used in completeness calculations includes field samples, but not field duplicates or blanks.

Percent Contractual Compliance = (Number of contract compliant results/Number of reported results) * 100

Percent Technical Compliance = (Number of usable results/Number of reported results) * 100

RPD = relative percent difference

Table C-1
Sampling and Analysis Schedule
First Quarter 2011 Groundwater Monitoring Report

Sample ID	Lab ID	Collected	Sample Type	Parameters
SVMW-1-30-40	PUB1539-01	2/24/2011	N	VOCs
SVMW-1-90-100	PUB1539-02	2/24/2011	N	VOCs
SVMW-1-140-150	PUB1539-03	2/24/2011	N	VOCs
SVMW-1-190-200	PUB1539-04	2/24/2011	N	VOCs

Notes:

N = Normal sample

VOCs = volatile organic compounds, analyzed by USEPA Method TO-15

Table C-2
Qualified Results
First Quarter 2011 Groundwater Monitoring Report

Sample ID	Analyte	Result	Units	Data Qualifier	Comments
SVMW-1-30-40	Acetone	76	ug/m ³	J	Qualified due to presence of common laboratory contaminant
SVMW-1-30-40	Methylene chloride	1.0	ug/m ³	J	Qualified due to presence of common laboratory contaminant
SVMW-1-90-100	Acetone	25	ug/m ³	J	Qualified due to presence of common laboratory contaminant
SVMW-1-90-100	Cyclohexane	0.76	ug/m ³	J	Qualified due to presence of common laboratory contaminant
SVMW-1-90-100	Methylene chloride	3.0	ug/m ³	J	Qualified due to presence of common laboratory contaminant
SVMW-1-140-150	Acetone	46	ug/m ³	J	Qualified due to presence of common laboratory contaminant
SVMW-1-140-150	2-Butanone	9.6	ug/m ³	J	Qualified due to presence of common laboratory contaminant
SVMW-1-190-200	Acetone	45	ug/m ³	J	Qualified due to presence of common laboratory contaminant

Notes:
ug/m³ = microgram per cubic meter
J = Estimated result

Table C-3
Completeness Summary
First Quarter 2011 Groundwater Monitoring Report

Parameters	Total Number of Samples	Number in Contractual Compliance	Percent Contractual Compliance	Number of Usable Results	Percent Technical Compliance
Volatile Organic Compounds by EPA Method TO-15					
Acetone	4	0 ^a	0	4	100
2-Butanone	4	3 ^a	75	4	100
Cyclohexane	4	3 ^a	75	4	100
Methylene Chloride	4	2 ^a	50	4	100
All other analytes	264	264	100	264	100
TOTAL	280	272	97	280	100

Notes:

Percent Contractual Compliance = (Number of contract compliant results/Number of reported results) * 100

Percent Technical Compliance = (Number of usable results/Number of reported results) * 100

^a Qualified due to presence of common laboratory contaminant.

1.0 INTRODUCTION

This summary presents data verification results for soil-gas samples collected from the soil-vapor monitoring well at Universal Propulsion Company, Inc. (UPCO) during the April 2011 monitoring event. The data review was performed in accordance with the procedures specified in the Remedial Investigation Workplan Vol. II Quality Assurance Project Plan (QAPP) (Hargis+Associates, Inc. 2004), USEPA Functional Guidelines for Organic Data Review (USEPA, 1999), and quality assurance and control parameters set by the project laboratory (TestAmerica).

A total of four soil-gas samples were collected during the monitoring event and submitted to TestAmerica for the following parameters:

- volatile organic compounds (VOCs) by USEPA Method TO15.

Table D-1 presents a summary of the sample identifications, laboratory sample identifications, and requested analytical parameters.

2.0 QUALITY CONTROL PARAMETERS REVIEWED

Sample results were subject to a Level III data review that includes an evaluation of the following quality control (QC) parameters:

- Chain-of-Custody;
- Sample Preservation and Temperature Upon Laboratory Receipt
- Holding Times;
- Blank Contamination (method blanks);
- Surrogate Recovery (for organic parameters);
- Laboratory Control Sample (LCS) Recovery and Relative Percent Difference (RPD); and
- Calibration Verification Recovery.

The data qualifiers used to qualify the analytical results associated with QC parameters outside of the established data quality objectives are defined below:

- J The analyte was positively identified; however, the result should be considered an estimated value.
- UJ The reporting limit is considered an estimated value.
- R Quality control indicates that the data is not usable.

Results qualified as “J” or UJ” are of acceptable data quality and may be used quantitatively to fulfill the objectives of the analytical program, per EPA guidelines.

Results from this monitoring/investigation event that required data qualification are provided in Table D-2.

2.1 CHAIN-OF-CUSTODY

The chain-of-custody documentation associated with project samples was found to be complete. Chain-of-custodies included sample identifications, date and time of collection, requested parameters, and relinquished/received signatures.

2.2 SAMPLE PRESERVATION AND TEMPERATURE UPON LABORATORY RECEIPT

Samples collected were received preserved and intact at the respective project laboratory. The samples were received by the laboratory at the correct temperature (20 degrees Celsius).

2.3 HOLDING TIMES

All samples were analyzed within the method-specific holding time limits.

2.4 BLANK CONTAMINATION

2.4.1 Method Blank

Method blanks were analyzed at the appropriate frequency as specified in the project laboratory’s QAPP. Target compounds were not detected in the method blanks.

2.4.4 Common Laboratory Contaminants

Per USEPA guidelines, common laboratory contaminants for VOC analysis are acetone, 2-butanone (MEK), cyclohexane, and methylene chloride. Analytical results are qualified if the detected sample concentration is less than 10 times the method reporting limit. Common lab contaminant compounds were detected in the samples and were qualified “J” to indicate a potential bias.

2.5 SURROGATE RECOVERY

Surrogate recoveries for the organic analyses were within laboratory acceptance limits.

2.6 LCS RECOVERY AND RPD

LCS/LCS duplicates were performed at the required frequency and were evaluated based on the following criteria:

- If the analyte recovery was above acceptance limits for the LCS or LCS duplicate, but the analyte was not detected in the associated batch, then data qualification was not required.
- If the analyte recovery was above acceptance limits for the LCS or LCS duplicate and the analyte was detected in the associated batch, then the analyte results were qualified “J”.
- If the analyte recovery was below acceptance limits for LCS or LCS duplicate then the analyte results in the associated analytical batch were qualified (“UJ” for non-detects and “J” for detected results).
- If the analyte recovery was less than 10 percent, the analyte results in the associated analytical batch were rejected and qualified “R”.

LCS/LCSD percent recoveries and RPDs were within acceptance limits except for the following:

- The LCS recovery for naphthalene and n-butylbenzene (156 and 135 percent, respectively) was above acceptance limits for the analytical batch 11D1017. Data qualification was not required because the associated samples were not detected for these analytes.
- The LCS duplicate recovery for several analytes was above acceptance limits for the analytical batch 11D1017. Data qualification was not required because the associated samples were not detected for these analytes.

3.0 COMPLETENESS SUMMARY

Two types of completeness were calculated for this project: contract and technical. Results indicated as not reportable by the laboratory are not included in the completeness calculations. The following equations were used to calculate the two types of completeness:

$$\% \text{ Contract Completeness} = \left(\frac{\text{Number of contract compliant results}}{\text{Number of reported results}} \right) \times 100$$

$$\% \text{ Technical Completeness} = \left(\frac{\text{Number of usable results}}{\text{Number of reported results}} \right) \times 100$$

The overall contract completeness, which includes the evaluation of protocol and contract deviations, which includes the evaluation of the QC parameters listed in Section 2.0, was 99 percent (4 out of a total 280 results required qualification). The technical completeness attained for this monitoring period was 100 percent. The completeness results are provided in Table D-3. The results for the performance monitoring events were considered usable for the intended purposes and the project DQOs have been met.

Table D-1
Sampling and Analysis Schedule
Second Quarter 2011 Groundwater Monitoring Report

Sample ID	Lab ID	Collected	Sample Type	Parameters
SVMW-1-30-40	PUD1452-01	4/25/2011	N	VOCs
SVMW-1-90-100	PUD1452-02	4/25/2011	N	VOCs
SVMW-1-140-150	PUD1452-03	4/25/2011	N	VOCs
SVMW-1-190-200	PUD1452-04	4/25/2011	N	VOCs

Table D-2
Qualified Results
Second Quarter 2011 Monitoring Report

Sample ID	Analyte	Result	Units	Data Qualifier	Comments
SVMW-1-30-40	Acetone	1500	ppbv	J	Qualified due to common laboratory contaminant
SVMW-1-90-100	Acetone	2500	ppbv	J	Qualified due to common laboratory contaminant
SVMW-1-140-150	Acetone	1200	ppbv	J	Qualified due to common laboratory contaminant
SVMW-1-190-200	2-Butanone	84	ppbv	J	Qualified due to common laboratory contaminant

Notes:

ppbv = parts per billion by volume

J = estimated result

Table D-3
Completeness Summary
Second Quarter 2011 Groundwater Monitoring Report

Parameters	Total Number of Samples	Number in Contractual Compliance	Percent Contractual Compliance	Number of Usable Results	Percent Technical Compliance
Volatile Organic Compounds by EPA Method TO-15					
Acetone	4	1 ^a	25	4	100
2-Butanone	4	3 ^a	75	4	100
All other analytes	4	4	100	4	100

Notes:

Percent Contractual Compliance = (Number of contract compliant results/Number of reported results) * 100

Percent Technical Compliance = (Number of usable results/Number of reported results) * 100

a = Qualified due to common laboratory contaminant

1.0 INTRODUCTION

This summary presents data verification results for soil-gas samples collected from the soil-vapor monitoring well at Universal Propulsion Company, Inc. (UPCO) during the July 2011 monitoring event. The data review was performed in accordance with the procedures specified in the Remedial Investigation Workplan Vol. II Quality Assurance Project Plan (QAPP) (Hargis+Associates, Inc. 2004), USEPA Functional Guidelines for Organic Data Review (USEPA, 1999), and quality assurance and control parameters set by the project laboratory (TestAmerica).

A total of 4 samples were collected and submitted to TestAmerica for the following parameters:

- volatile organic compounds (VOCs) by USEPA Method TO-15

Table D-1 lists the samples and associated analytical parameters.

1.1 Data Quality Assessment

Sample results were subject to a Level III data review that includes an evaluation of the following quality control (QC) parameters:

- sample receipt temperatures;
- holding times;
- method blanks;
- laboratory control samples/laboratory control sample duplicates (LCS);
- surrogates; and
- common laboratory contaminants.

Qualified results are summarized in Table D-2.

1.2 Data Qualifiers

The data qualifiers used to qualify analytical results associated with QC parameters outside data quality objectives (DQOs) are defined below:

- J The analyte was positively identified; however, the result should be considered an estimated value.
- UJ The reporting limit is considered an estimated value.
- R Quality control indicates that the data is not usable

Results qualified as “J” or UJ” are of acceptable data quality and may be used quantitatively to fulfill the objectives of the analytical program, per USEPA guidelines. The results associated with this sampling event required no data qualification.

1.3 Sample Preservation and Temperature Upon Laboratory Receipt

Samples were received intact and at the correct temperature (ambient) at the project laboratory.

1.4 Holding Times

Samples were extracted and analyzed within the holding time limits set by the respective USEPA methods.

1.5 Blank Contamination

Method blanks were performed at the required frequencies. Target compounds were not detected in the blanks.

1.6 LCS/LCS Duplicate Recovery and Relative Percent Difference

LCS/LCS duplicates were performed at the required frequency and were evaluated based on the following criteria:

- If the analyte recovery was above acceptance limits for LCS or LCS duplicate but the analyte was not detected in the associated batch, then data qualification was not required.
- If the analyte recovery was above acceptance limits for LCS or LCS duplicate and the analyte was detected in the associated batch, then the analyte results were qualified “J”.
- If the analyte recovery was below acceptance limits for LCS or LCS duplicate then the analyte results in the associated analytical batch were qualified (“UJ” for non-detects and “J” for detected results).
- If the analyte recovery was less than 10 percent, the analyte results in the associated analytical batch were rejected and qualified “R”.

Percent recoveries and RPDs for the LCS and LCS duplicates were within acceptance limits except for the following:

- The LCS recovery for 4-methyl-2-pentanone (131 percent) and 2-hexanone (134 percent), and the LCS and LCS duplicate recoveries for benzyl chloride (133 and 142 percent, respectively), were above acceptance limits for the analytical batch

11H0026. Data qualification was not required because the associated samples were not detected for these analytes.

1.7 Surrogates

Surrogate recoveries for the organic analyses were within laboratory acceptance limits.

1.8 Common Laboratory Contaminants

Per USEPA guidelines, common laboratory contaminants for VOC analysis are acetone, 2-butanone (MEK), cyclohexane, and methylene chloride. Analytical results are qualified if the detected sample concentration is less than 10 times the method reporting limit. Common lab contaminant compounds were not detected in the samples associated with the monitoring events except for the following:

- Acetone was detected in samples SVMW-1-90-100, SVMW-1-140-150, and SVMW-1-190-200 collected July 26, 2011. Data were qualified "J" to indicate a potential bias.
- Methylene chloride was detected in samples SVMW-1-30-40 and SVMW-1-90-100 collected July 26, 2011. Data were qualified "J" to indicate a potential bias.
- Cyclohexane was detected in sample SVMW-1-30-40 collected July 26, 2011. Data was qualified "J" to indicate a potential bias.
- MEK was detected in samples SVMW-1-90-100, SVMW-1-140-150, and SVMW-1-190-200 collected July 26, 2011. Data were qualified "J" to indicate a potential bias.

1.9 Completeness Summary

Two types of completeness were calculated for this project: contract and technical. As specified in the project DQOs, the goal for completeness for the site is 90 percent. Results indicated as not reportable by the laboratory are not included in the completeness calculations. The following equations are used to calculate the two types of completeness.

$$\begin{aligned} \% \text{ Contract Completeness} = \\ & \left(\frac{\text{Number of contract compliant results}}{\text{Number of reported results}} \right) \\ & \quad \times 100 \end{aligned}$$

$$\begin{aligned} \% \text{ Technical Completeness} = \\ & \left(\frac{\text{Number of usable results}}{\text{Number of reported results}} \right) \end{aligned}$$

x 100

The overall contract completeness included the evaluation of the protocol and contract deviations for holding times, blanks, and LCS/LCSD attained for the field samples was 97 percent. The technical completeness, which included all QC parameters, attained for the field samples was 100 percent. The completeness results are provided in Table D-3. All of the results were considered usable for the intended purposes and the project DQOs have been met.

Table D-1
Sampling and Analysis Schedule
Third Quarter 2011 Groundwater Monitoring Report

Sample ID	Lab ID	Collected	Sample Type	Parameters
SVMW-1-30-40	PUG1642-01	7/26/2011	N	VOCs
SVMW-1-90-100	PUG1642-02	7/26/2011	N	VOCs
SVMW-1-140-150	PUG1642-03	7/26/2011	N	VOCs
SVMW-1-190-200	PUG1642-04	7/26/2011	N	VOCs

Notes:

N = Normal sample

VOCs = volatile organic compounds, analyzed by USEPA Method TO-15

Table D-2
Qualified Results
Third Quarter 2011 Groundwater Monitoring Report

Sample ID	Analyte	Result	Units	Data Qualifier	Comments
SVMW-1-30-40	Cyclohexane	1.9	ug/m ³	J	Qualified due to presence of common laboratory contaminant
SVMW-1-30-40	Methylene chloride	11	ug/m ³	J	Qualified due to presence of common laboratory contaminant
SVMW-1-90-100	Acetone	260	ug/m ³	J	Qualified due to presence of common laboratory contaminant
SVMW-1-90-100	2-Butanone	140	ug/m ³	J	Qualified due to presence of common laboratory contaminant
SVMW-1-90-100	Methylene chloride	7.6	ug/m ³	J	Qualified due to presence of common laboratory contaminant
SVMW-1-140-150	Acetone	290	ug/m ³	J	Qualified due to presence of common laboratory contaminant
SVMW-1-140-150	2-Butanone	170	ug/m ³	J	Qualified due to presence of common laboratory contaminant
SVMW-1-190-200	Acetone	330	ug/m ³	J	Qualified due to presence of common laboratory contaminant
SVMW-1-190-200	2-Butanone	200	ug/m ³	J	Qualified due to presence of common laboratory contaminant

Notes:

ug/m³ = microgram per cubic meter

J = Estimated result

Table D-3
Completeness Summary
Third Quarter 2011 Groundwater Monitoring Report

Parameters	Total Number of Samples	Number in Contractual Compliance	Percent Contractual Compliance	Number of Usable Results	Percent Technical Compliance
Volatile Organic Compounds by EPA Method TO-15					
Acetone	4	1 ^a	25	4	100
2-Butanone	4	1 ^a	25	4	100
Cyclohexane	4	3 ^a	75	4	100
Methylene Chloride	4	2 ^a	50	4	100
All other analytes	264	264	100	264	100
TOTAL	280	271	97	280	100

^a Qualified due to presence of common laboratory contaminant.

Notes:

Percent Contractual Compliance = (Number of contract compliant results/Number of reported results) * 100

Percent Technical Compliance = (Number of usable results/Number of reported results) * 100

1.0 INTRODUCTION

This summary presents data verification results for soil-gas samples collected from the soil-vapor monitoring well at Universal Propulsion Company, Inc. (UPCO) during the October 2011 monitoring event. The data review was performed in accordance with the procedures specified in the Remedial Investigation Workplan Vol. II Quality Assurance Project Plan (QAPP) (Hargis+Associates, Inc. 2004), USEPA Functional Guidelines for Organic Data Review (USEPA, 1999), and quality assurance and control parameters set by the project laboratory (TestAmerica).

A total of 4 samples were collected and submitted to TestAmerica for the following parameters:

- volatile organic compounds (VOCs) by USEPA Method TO-15

Table B-1 lists the samples and associated analytical parameters.

1.1 Data Quality Assessment

Sample results were subject to a Level III data review that includes an evaluation of the following quality control (QC) parameters:

- sample receipt temperatures;
- holding times;
- method blanks;
- laboratory control samples/laboratory control sample duplicates (LCS);
- surrogates; and
- common laboratory contaminants.

Qualified results are summarized in Table B-2.

1.2 Data Qualifiers

The data qualifiers used to qualify analytical results associated with QC parameters outside data quality objectives (DQOs) are defined below:

- J The analyte was positively identified; however, the result should be considered an estimated value.
- UJ The reporting limit is considered an estimated value.
- R Quality control indicates that the data is not usable

Results qualified as “J” or UJ” are of acceptable data quality and may be used quantitatively to fulfill the objectives of the analytical program, per USEPA guidelines. The results associated with this sampling event required no data qualification.

1.3 Sample Preservation and Temperature Upon Laboratory Receipt

Samples were received intact and at the correct temperature (ambient) at the project laboratory.

1.4 Holding Times

Samples were extracted and analyzed within the holding time limits set by the respective USEPA methods.

1.5 Blank Contamination

Method blanks were performed at the required frequencies. Target compounds were not detected in the blanks.

1.6 LCS/LCS Duplicate Recovery and Relative Percent Difference

LCS/LCS duplicates were performed at the required frequency and were evaluated based on the following criteria:

- If the analyte recovery was above acceptance limits for LCS or LCS duplicate but the analyte was not detected in the associated batch, then data qualification was not required.
- If the analyte recovery was above acceptance limits for LCS or LCS duplicate and the analyte was detected in the associated batch, then the analyte results were qualified “J”.
- If the analyte recovery was below acceptance limits for LCS or LCS duplicate then the analyte results in the associated analytical batch were qualified (“UJ” for non-detects and “J” for detected results).
- If the analyte recovery was less than 10 percent, the analyte results in the associated analytical batch were rejected and qualified “R”.

Percent recoveries and RPDs for the LCS and LCS duplicates were within acceptance limits.

1.7 Surrogates

Surrogate recoveries for the organic analyses were within laboratory acceptance limits.

1.8 Common Laboratory Contaminants

Per USEPA guidelines, common laboratory contaminants for VOC analysis are acetone, 2-butanone (MEK), cyclohexane, and methylene chloride. Analytical results are qualified if the detected sample concentration is less than 10 times the method reporting limit. Common lab contaminant compounds were not detected in the samples associated with the monitoring events except for the following:

- Acetone was detected in samples SVMW-1-30-40, SVMW-1-90-100, SVMW-1-140-150, and SVMW-1-190-200 collected October 25, 2011. Data were qualified "J" to indicate a potential bias.
- Methylene chloride was detected in sample SVMW-1-30-40 collected October 25, 2011. Data was qualified "J" to indicate a potential bias.
- MEK was detected in samples SVMW-1-30-40 and SVMW-1-190-200 collected October 25, 2011. Data were qualified "J" to indicate a potential bias.

1.9 Completeness Summary

Two types of completeness were calculated for this project: contract and technical. As specified in the project DQOs, the goal for completeness for the site is 90 percent. Results indicated as not reportable by the laboratory are not included in the completeness calculations. The following equations are used to calculate the two types of completeness.

$$\begin{aligned} \% \text{ Contract Completeness} = & \\ & \frac{(\text{Number of contract compliant results}/}{\text{Number of reported results}} \\ & \times 100 \end{aligned}$$

$$\begin{aligned} \% \text{ Technical Completeness} = & \\ & \frac{(\text{Number of usable results}/\text{Number of reported results})}{\times 100} \end{aligned}$$

The overall contract completeness included the evaluation of the protocol and contract deviations for holding times, blanks, and LCS/LCSD attained for the field samples was 98 percent. The technical completeness, which included all QC parameters, attained for the field samples was 100 percent. The completeness results are provided in Table C-3. All of the results were considered usable for the intended purposes and the project DQOs have been met.

Table B-1
Sampling and Analysis Schedule
Fourth Quarter 2011 Groundwater Monitoring Report

Sample ID	Lab ID	Collected	Sample Type	Parameters
SVMW-1-30-40	PUJ1542-01	10/25/2011	N	VOCs
SVMW-1-90-100	PUJ1542-02	10/25/2011	N	VOCs
SVMW-1-140-150	PUJ1542-03	10/25/2011	N	VOCs
SVMW-1-190-200	PUJ1542-04	10/25/2011	N	VOCs

Notes:

N = Normal sample

VOCs = volatile organic compounds, analyzed by USEPA Method TO-15

Table B-2
Qualified Results
Fourth Quarter 2011 Groundwater Monitoring Report

Sample ID	Analyte	Result	Units	Data Qualifier	Comments
SVMW-1-30-40	Acetone	520	ug/m ³	J	Qualified due to presence of common laboratory contaminant
SVMW-1-30-40	2-Butanone	190	ug/m ³	J	Qualified due to presence of common laboratory contaminant
SVMW-1-30-40	Methylene chloride	9.7	ug/m ³	J	Qualified due to presence of common laboratory contaminant
SVMW-1-90-100	Acetone	240	ug/m ³	J	Qualified due to presence of common laboratory contaminant
SVMW-1-140-150	Acetone	260	ug/m ³	J	Qualified due to presence of common laboratory contaminant
SVMW-1-190-200	Acetone	290	ug/m ³	J	Qualified due to presence of common laboratory contaminant
SVMW-1-190-200	2-Butanone	97	ug/m ³	J	Qualified due to presence of common laboratory contaminant

Notes:
ug/m³ = microgram per cubic meter
J = Estimated result

Table B-3
Completeness Summary
Fourth Quarter 2011 Groundwater Monitoring Report

Parameters	Total Number of Samples	Number in Contractual Compliance	Percent Contractual Compliance	Number of Usable Results	Percent Technical Compliance
Volatile Organic Compounds by EPA Method TO-15					
Acetone	4	0 ^a	0	4	100
2-Butanone	4	2 ^a	50	4	100
Methylene Chloride	4	3 ^a	50	4	100
All other analytes	268	268	100	268	100
TOTAL	280	273	98	280	100

^a Qualified due to presence of common laboratory contaminant.

Notes:

Percent Contractual Compliance = (Number of contract compliant results/Number of reported results) * 100

Percent Technical Compliance = (Number of usable results/Number of reported results) * 100

Universal Propulsion Company
2011 Annual Monitoring Report

Appendix J
Laboratory Reports (CD)



LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO/3994018

Sampled: 02/25/11
Received: 02/25/11
Issued: 03/14/11 17:26

NELAP #01109CA Arizona DHS#AZ0728

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.
This entire report was reviewed and approved for release.*

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PUB1607-01	TB022511-1	Water
PUB1607-02	TB022511-2	Water
PUB1607-03	MW-4	Water
PUB1607-04	MW-10	Water
PUB1607-05	MW-7	Water
PUB1607-06	MW-3	Water
PUB1607-07	MW-6	Water

SAMPLE RECEIPT: Samples were received intact, at 3°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

L3 EPA 8260B:Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:



TestAmerica Phoenix

Carlene McCutcheon
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1607

Sampled: 02/25/11

Received: 02/25/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUB1607-01 (TB022511-1 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11C0014	10	ND	1	3/1/2011	3/1/2011	
Benzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Bromobenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Bromochloromethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Bromodichloromethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Bromoform	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
Bromomethane	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
2-Butanone (MEK)	EPA 8260B	11C0014	2.5	ND	1	3/1/2011	3/1/2011	
n-Butylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
sec-Butylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
tert-Butylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Carbon disulfide	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Carbon tetrachloride	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Chlorobenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Chloroethane	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
Chloroform	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Chloromethane	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
2-Chlorotoluene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
4-Chlorotoluene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Dibromochloromethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11C0014	2.5	ND	1	3/1/2011	3/1/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Dibromomethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,2-Dichlorobenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,3-Dichlorobenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,4-Dichlorobenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Dichlorodifluoromethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,1-Dichloroethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,2-Dichloroethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,1-Dichloroethene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
cis-1,2-Dichloroethene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
trans-1,2-Dichloroethene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,2-Dichloropropane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,3-Dichloropropane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
2,2-Dichloropropane	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
1,1-Dichloropropene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
cis-1,3-Dichloropropene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
trans-1,3-Dichloropropene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Ethylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Hexachlorobutadiene	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1607

Sampled: 02/25/11

Received: 02/25/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUB1607-01 (TB022511-1 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11C0014	2.5	ND	1	3/1/2011	3/1/2011	
Iodomethane	EPA 8260B	11C0014	2.5	ND	1	3/1/2011	3/1/2011	
Isopropylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
p-Isopropyltoluene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Methylene Chloride	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11C0014	2.5	ND	1	3/1/2011	3/1/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Naphthalene	EPA 8260B	11C0014	2.5	ND	1	3/1/2011	3/1/2011	
n-Propylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Styrene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Tetrachloroethene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Toluene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
1,1,1-Trichloroethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,1,2-Trichloroethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Trichloroethene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Trichlorofluoromethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,2,3-Trichloropropane	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Vinyl Acetate	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	L3
Vinyl chloride	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Xylenes, Total	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
Surrogate: Dibromofluoromethane (80-130%)				109 %				
Surrogate: Toluene-d8 (80-120%)				101 %				
Surrogate: 4-Bromofluorobenzene (80-125%)				97 %				

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Carlene McCutcheon
Project Manager

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PUB1607 <Page 3 of 37>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1607

Sampled: 02/25/11

Received: 02/25/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUB1607-02 (TB022511-2 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11C0014	10	ND	1	3/1/2011	3/1/2011	
Benzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Bromobenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Bromochloromethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Bromodichloromethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Bromoform	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
Bromomethane	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
2-Butanone (MEK)	EPA 8260B	11C0014	2.5	ND	1	3/1/2011	3/1/2011	
n-Butylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
sec-Butylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
tert-Butylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Carbon disulfide	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Carbon tetrachloride	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Chlorobenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Chloroethane	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
Chloroform	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Chloromethane	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
2-Chlorotoluene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
4-Chlorotoluene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Dibromochloromethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11C0014	2.5	ND	1	3/1/2011	3/1/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Dibromomethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,2-Dichlorobenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,3-Dichlorobenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,4-Dichlorobenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Dichlorodifluoromethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,1-Dichloroethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,2-Dichloroethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,1-Dichloroethene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
cis-1,2-Dichloroethene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
trans-1,2-Dichloroethene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,2-Dichloropropane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,3-Dichloropropane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
2,2-Dichloropropane	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
1,1-Dichloropropene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
cis-1,3-Dichloropropene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
trans-1,3-Dichloropropene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Ethylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Hexachlorobutadiene	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	

TestAmerica Phoenix

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Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
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Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1607

Sampled: 02/25/11
Received: 02/25/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUB1607-02 (TB022511-2 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11C0014	2.5	ND	1	3/1/2011	3/1/2011	
Iodomethane	EPA 8260B	11C0014	2.5	ND	1	3/1/2011	3/1/2011	
Isopropylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
p-Isopropyltoluene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Methylene Chloride	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11C0014	2.5	ND	1	3/1/2011	3/1/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Naphthalene	EPA 8260B	11C0014	2.5	ND	1	3/1/2011	3/1/2011	
n-Propylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Styrene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Tetrachloroethene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Toluene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
1,1,1-Trichloroethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,1,2-Trichloroethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Trichloroethene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Trichlorofluoromethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,2,3-Trichloropropane	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Vinyl Acetate	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	L3
Vinyl chloride	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Xylenes, Total	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
Surrogate: Dibromofluoromethane (80-130%)				109 %				
Surrogate: Toluene-d8 (80-120%)				99 %				
Surrogate: 4-Bromofluorobenzene (80-125%)				99 %				

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Carlene McCutcheon
Project Manager

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PUB1607 <Page 5 of 37>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1607

Sampled: 02/25/11

Received: 02/25/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUB1607-03 (MW-4 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11C0014	10	ND	1	3/1/2011	3/1/2011	
Benzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Bromobenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Bromochloromethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Bromodichloromethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Bromoform	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
Bromomethane	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
2-Butanone (MEK)	EPA 8260B	11C0014	2.5	ND	1	3/1/2011	3/1/2011	
n-Butylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
sec-Butylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
tert-Butylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Carbon disulfide	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Carbon tetrachloride	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Chlorobenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Chloroethane	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
Chloroform	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Chloromethane	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
2-Chlorotoluene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
4-Chlorotoluene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Dibromochloromethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11C0014	2.5	ND	1	3/1/2011	3/1/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Dibromomethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,2-Dichlorobenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,3-Dichlorobenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,4-Dichlorobenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Dichlorodifluoromethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,1-Dichloroethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,2-Dichloroethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,1-Dichloroethene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
cis-1,2-Dichloroethene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
trans-1,2-Dichloroethene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,2-Dichloropropane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,3-Dichloropropane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
2,2-Dichloropropane	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
1,1-Dichloropropene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
cis-1,3-Dichloropropene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
trans-1,3-Dichloropropene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Ethylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Hexachlorobutadiene	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1607

Sampled: 02/25/11

Received: 02/25/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUB1607-03 (MW-4 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11C0014	2.5	ND	1	3/1/2011	3/1/2011	
Iodomethane	EPA 8260B	11C0014	2.5	ND	1	3/1/2011	3/1/2011	
Isopropylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
p-Isopropyltoluene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Methylene Chloride	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11C0014	2.5	ND	1	3/1/2011	3/1/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Naphthalene	EPA 8260B	11C0014	2.5	ND	1	3/1/2011	3/1/2011	
n-Propylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Styrene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Tetrachloroethene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Toluene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
1,1,1-Trichloroethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,1,2-Trichloroethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Trichloroethene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Trichlorofluoromethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,2,3-Trichloropropane	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Vinyl Acetate	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	L3
Vinyl chloride	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Xylenes, Total	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
Surrogate: Dibromofluoromethane (80-130%)				105 %				
Surrogate: Toluene-d8 (80-120%)				97 %				
Surrogate: 4-Bromofluorobenzene (80-125%)				98 %				

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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PUB1607 <Page 7 of 37>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1607

Sampled: 02/25/11

Received: 02/25/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUB1607-04 (MW-10 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11C0014	10	ND	1	3/1/2011	3/1/2011	
Benzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Bromobenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Bromochloromethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Bromodichloromethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Bromoform	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
Bromomethane	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
2-Butanone (MEK)	EPA 8260B	11C0014	2.5	ND	1	3/1/2011	3/1/2011	
n-Butylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
sec-Butylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
tert-Butylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Carbon disulfide	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Carbon tetrachloride	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Chlorobenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Chloroethane	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
Chloroform	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Chloromethane	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
2-Chlorotoluene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
4-Chlorotoluene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Dibromochloromethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11C0014	2.5	ND	1	3/1/2011	3/1/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Dibromomethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,2-Dichlorobenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,3-Dichlorobenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,4-Dichlorobenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Dichlorodifluoromethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,1-Dichloroethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,2-Dichloroethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,1-Dichloroethene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
cis-1,2-Dichloroethene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
trans-1,2-Dichloroethene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,2-Dichloropropane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,3-Dichloropropane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
2,2-Dichloropropane	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
1,1-Dichloropropene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
cis-1,3-Dichloropropene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
trans-1,3-Dichloropropene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Ethylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Hexachlorobutadiene	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1607

Sampled: 02/25/11

Received: 02/25/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUB1607-04 (MW-10 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11C0014	2.5	ND	1	3/1/2011	3/1/2011	
Iodomethane	EPA 8260B	11C0014	2.5	ND	1	3/1/2011	3/1/2011	
Isopropylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
p-Isopropyltoluene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Methylene Chloride	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11C0014	2.5	ND	1	3/1/2011	3/1/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Naphthalene	EPA 8260B	11C0014	2.5	ND	1	3/1/2011	3/1/2011	
n-Propylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Styrene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Tetrachloroethene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Toluene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
1,1,1-Trichloroethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,1,2-Trichloroethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Trichloroethene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Trichlorofluoromethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,2,3-Trichloropropane	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Vinyl Acetate	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	L3
Vinyl chloride	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Xylenes, Total	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
Surrogate: Dibromofluoromethane (80-130%)				109 %				
Surrogate: Toluene-d8 (80-120%)				97 %				
Surrogate: 4-Bromofluorobenzene (80-125%)				103 %				

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Carlene McCutcheon
Project Manager

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PUB1607 <Page 9 of 37>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1607

Sampled: 02/25/11

Received: 02/25/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUB1607-05 (MW-7 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11C0014	10	ND	1	3/1/2011	3/1/2011	
Benzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Bromobenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Bromochloromethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Bromodichloromethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Bromoform	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
Bromomethane	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
2-Butanone (MEK)	EPA 8260B	11C0014	2.5	ND	1	3/1/2011	3/1/2011	
n-Butylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
sec-Butylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
tert-Butylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Carbon disulfide	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Carbon tetrachloride	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Chlorobenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Chloroethane	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
Chloroform	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Chloromethane	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
2-Chlorotoluene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
4-Chlorotoluene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Dibromochloromethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11C0014	2.5	ND	1	3/1/2011	3/1/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Dibromomethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,2-Dichlorobenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,3-Dichlorobenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,4-Dichlorobenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Dichlorodifluoromethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,1-Dichloroethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,2-Dichloroethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,1-Dichloroethene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
cis-1,2-Dichloroethene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
trans-1,2-Dichloroethene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,2-Dichloropropane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,3-Dichloropropane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
2,2-Dichloropropane	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
1,1-Dichloropropene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
cis-1,3-Dichloropropene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
trans-1,3-Dichloropropene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Ethylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Hexachlorobutadiene	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1607

Sampled: 02/25/11
Received: 02/25/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUB1607-05 (MW-7 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11C0014	2.5	ND	1	3/1/2011	3/1/2011	
Iodomethane	EPA 8260B	11C0014	2.5	ND	1	3/1/2011	3/1/2011	
Isopropylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
p-Isopropyltoluene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Methylene Chloride	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11C0014	2.5	ND	1	3/1/2011	3/1/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Naphthalene	EPA 8260B	11C0014	2.5	ND	1	3/1/2011	3/1/2011	
n-Propylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Styrene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Tetrachloroethene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Toluene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
1,1,1-Trichloroethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,1,2-Trichloroethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Trichloroethene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Trichlorofluoromethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,2,3-Trichloropropane	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Vinyl Acetate	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	L3
Vinyl chloride	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Xylenes, Total	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
Surrogate: Dibromofluoromethane (80-130%)				105 %				
Surrogate: Toluene-d8 (80-120%)				95 %				
Surrogate: 4-Bromofluorobenzene (80-125%)				98 %				

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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PUB1607 <Page 11 of 37>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1607

Sampled: 02/25/11
Received: 02/25/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUB1607-06 (MW-3 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11C0014	10	ND	1	3/1/2011	3/1/2011	
Benzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Bromobenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Bromochloromethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Bromodichloromethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Bromoform	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
Bromomethane	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
2-Butanone (MEK)	EPA 8260B	11C0014	2.5	ND	1	3/1/2011	3/1/2011	
n-Butylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
sec-Butylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
tert-Butylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Carbon disulfide	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Carbon tetrachloride	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Chlorobenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Chloroethane	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
Chloroform	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Chloromethane	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
2-Chlorotoluene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
4-Chlorotoluene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Dibromochloromethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11C0014	2.5	ND	1	3/1/2011	3/1/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Dibromomethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,2-Dichlorobenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,3-Dichlorobenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,4-Dichlorobenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Dichlorodifluoromethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,1-Dichloroethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,2-Dichloroethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,1-Dichloroethene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
cis-1,2-Dichloroethene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
trans-1,2-Dichloroethene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,2-Dichloropropane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,3-Dichloropropane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
2,2-Dichloropropane	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
1,1-Dichloropropene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
cis-1,3-Dichloropropene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
trans-1,3-Dichloropropene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Ethylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Hexachlorobutadiene	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1607

Sampled: 02/25/11

Received: 02/25/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUB1607-06 (MW-3 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11C0014	2.5	ND	1	3/1/2011	3/1/2011	
Iodomethane	EPA 8260B	11C0014	2.5	ND	1	3/1/2011	3/1/2011	
Isopropylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
p-Isopropyltoluene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Methylene Chloride	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11C0014	2.5	ND	1	3/1/2011	3/1/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Naphthalene	EPA 8260B	11C0014	2.5	ND	1	3/1/2011	3/1/2011	
n-Propylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Styrene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Tetrachloroethene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Toluene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
1,1,1-Trichloroethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,1,2-Trichloroethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Trichloroethene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Trichlorofluoromethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,2,3-Trichloropropane	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Vinyl Acetate	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	L3
Vinyl chloride	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Xylenes, Total	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
Surrogate: Dibromofluoromethane (80-130%)				110 %				
Surrogate: Toluene-d8 (80-120%)				101 %				
Surrogate: 4-Bromofluorobenzene (80-125%)				100 %				

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Carlene McCutcheon
Project Manager

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PUB1607 <Page 13 of 37>

ARCADIS U.S., Inc. - Phoenix
 4646 E Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1607

Sampled: 02/25/11
 Received: 02/25/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUB1607-07 (MW-6 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11C0014	10	ND	1	3/1/2011	3/1/2011	
Benzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Bromobenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Bromochloromethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Bromodichloromethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Bromoform	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
Bromomethane	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
2-Butanone (MEK)	EPA 8260B	11C0014	2.5	ND	1	3/1/2011	3/1/2011	
n-Butylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
sec-Butylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
tert-Butylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Carbon disulfide	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Carbon tetrachloride	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Chlorobenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Chloroethane	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
Chloroform	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Chloromethane	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
2-Chlorotoluene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
4-Chlorotoluene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Dibromochloromethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11C0014	2.5	ND	1	3/1/2011	3/1/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Dibromomethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,2-Dichlorobenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,3-Dichlorobenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,4-Dichlorobenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Dichlorodifluoromethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,1-Dichloroethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,2-Dichloroethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,1-Dichloroethene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
cis-1,2-Dichloroethene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
trans-1,2-Dichloroethene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,2-Dichloropropane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,3-Dichloropropane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
2,2-Dichloropropane	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
1,1-Dichloropropene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
cis-1,3-Dichloropropene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
trans-1,3-Dichloropropene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Ethylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Hexachlorobutadiene	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	

TestAmerica Phoenix

Carlene McCutcheon
 Project Manager

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 Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1607

Sampled: 02/25/11
 Received: 02/25/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUB1607-07 (MW-6 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11C0014	2.5	ND	1	3/1/2011	3/1/2011	
Iodomethane	EPA 8260B	11C0014	2.5	ND	1	3/1/2011	3/1/2011	
Isopropylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
p-Isopropyltoluene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Methylene Chloride	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11C0014	2.5	ND	1	3/1/2011	3/1/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Naphthalene	EPA 8260B	11C0014	2.5	ND	1	3/1/2011	3/1/2011	
n-Propylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Styrene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Tetrachloroethene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Toluene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
1,1,1-Trichloroethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,1,2-Trichloroethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Trichloroethene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Trichlorofluoromethane	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,2,3-Trichloropropane	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Vinyl Acetate	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	L3
Vinyl chloride	EPA 8260B	11C0014	0.50	ND	1	3/1/2011	3/1/2011	
Xylenes, Total	EPA 8260B	11C0014	1.0	ND	1	3/1/2011	3/1/2011	
Surrogate: Dibromofluoromethane (80-130%)				106 %				
Surrogate: Toluene-d8 (80-120%)				100 %				
Surrogate: 4-Bromofluorobenzene (80-125%)				97 %				

TestAmerica Phoenix

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Project ID: UPCO/3994018

Report Number: PUB1607

Sampled: 02/25/11

Received: 02/25/11

1,4-DIOXANE BY GC/MS (EPA 5030B/8260B-SIM)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUB1607-03 (MW-4 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8260B-SIM	11C0032	1.0	ND	1	3/2/2011	3/2/2011	
<i>Surrogate: Dibromofluoromethane (70-140%)</i>				100 %				
Sample ID: PUB1607-04 (MW-10 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8260B-SIM	11C0032	1.0	ND	1	3/2/2011	3/2/2011	
<i>Surrogate: Dibromofluoromethane (70-140%)</i>				98 %				
Sample ID: PUB1607-05 (MW-7 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8260B-SIM	11C0032	1.0	ND	1	3/2/2011	3/2/2011	
<i>Surrogate: Dibromofluoromethane (70-140%)</i>				102 %				
Sample ID: PUB1607-06 (MW-3 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8260B-SIM	11C0032	1.0	ND	1	3/2/2011	3/2/2011	
<i>Surrogate: Dibromofluoromethane (70-140%)</i>				102 %				
Sample ID: PUB1607-07 (MW-6 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8260B-SIM	11C0032	1.0	ND	1	3/2/2011	3/2/2011	
<i>Surrogate: Dibromofluoromethane (70-140%)</i>				105 %				

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Carlene McCutcheon
Project Manager

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PUB1607 <Page 16 of 37>

ARCADIS U.S., Inc. - Phoenix
 4646 E Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1607

Sampled: 02/25/11

Received: 02/25/11

TOTAL METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUB1607-03 (MW-4 - Water)								
Reporting Units: mg/l								
Mercury	E245.1	11C0054	0.00020	ND	1	3/2/2011	3/3/2011	
Sample ID: PUB1607-04 (MW-10 - Water)								
Reporting Units: mg/l								
Mercury	E245.1	11C0054	0.00020	ND	1	3/2/2011	3/3/2011	
Sample ID: PUB1607-05 (MW-7 - Water)								
Reporting Units: mg/l								
Mercury	E245.1	11C0054	0.00020	ND	1	3/2/2011	3/3/2011	
Sample ID: PUB1607-06 (MW-3 - Water)								
Reporting Units: mg/l								
Mercury	E245.1	11C0054	0.00020	ND	1	3/2/2011	3/3/2011	
Sample ID: PUB1607-07 (MW-6 - Water)								
Reporting Units: mg/l								
Mercury	E245.1	11C0054	0.00020	ND	1	3/2/2011	3/3/2011	

TestAmerica Phoenix

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ARCADIS U.S., Inc. - Phoenix
 4646 E Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1607

Sampled: 02/25/11

Received: 02/25/11

TOTAL METALS BY ICP/MS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUB1607-03 (MW-4 - Water)								
Reporting Units: mg/l								
Arsenic	E200.8	11B1017	0.0010	0.0031	1	2/28/2011	3/3/2011	
Barium	E200.8	11B1017	0.0010	0.071	1	2/28/2011	3/3/2011	
Cadmium	E200.8	11B1017	0.0010	ND	1	2/28/2011	3/3/2011	
Chromium	E200.8	11B1017	0.0010	ND	1	2/28/2011	3/7/2011	
Lead	E200.8	11B1017	0.0010	0.0026	1	2/28/2011	3/3/2011	
Selenium	E200.8	11B1017	0.0020	ND	1	2/28/2011	3/3/2011	
Silver	E200.8	11B1017	0.0010	ND	1	2/28/2011	3/3/2011	
Sample ID: PUB1607-04 (MW-10 - Water)								
Reporting Units: mg/l								
Arsenic	E200.8	11B1017	0.0010	0.018	1	2/28/2011	3/3/2011	
Barium	E200.8	11B1017	0.0010	0.0073	1	2/28/2011	3/3/2011	
Cadmium	E200.8	11B1017	0.0010	ND	1	2/28/2011	3/3/2011	
Chromium	E200.8	11B1017	0.0010	0.0025	1	2/28/2011	3/7/2011	
Lead	E200.8	11B1017	0.0010	0.0014	1	2/28/2011	3/3/2011	
Selenium	E200.8	11B1017	0.0020	ND	1	2/28/2011	3/3/2011	
Silver	E200.8	11B1017	0.0010	ND	1	2/28/2011	3/3/2011	
Sample ID: PUB1607-05 (MW-7 - Water)								
Reporting Units: mg/l								
Arsenic	E200.8	11B1017	0.0010	0.026	1	2/28/2011	3/3/2011	
Barium	E200.8	11B1017	0.0010	0.0060	1	2/28/2011	3/3/2011	
Cadmium	E200.8	11B1017	0.0010	ND	1	2/28/2011	3/3/2011	
Chromium	E200.8	11B1017	0.0010	0.0027	1	2/28/2011	3/7/2011	
Lead	E200.8	11B1017	0.0010	0.0011	1	2/28/2011	3/3/2011	
Selenium	E200.8	11B1017	0.0020	ND	1	2/28/2011	3/3/2011	
Silver	E200.8	11B1017	0.0010	ND	1	2/28/2011	3/3/2011	

TestAmerica Phoenix

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 Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1607

Sampled: 02/25/11

Received: 02/25/11

TOTAL METALS BY ICP/MS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUB1607-06 (MW-3 - Water)								
Reporting Units: mg/l								
Arsenic	E200.8	11B1017	0.0010	0.0057	1	2/28/2011	3/3/2011	
Barium	E200.8	11B1017	0.0010	0.017	1	2/28/2011	3/3/2011	
Cadmium	E200.8	11B1017	0.0010	ND	1	2/28/2011	3/3/2011	
Chromium	E200.8	11B1017	0.0010	ND	1	2/28/2011	3/7/2011	
Lead	E200.8	11B1017	0.0010	0.0020	1	2/28/2011	3/3/2011	
Selenium	E200.8	11B1017	0.0020	ND	1	2/28/2011	3/3/2011	
Silver	E200.8	11B1017	0.0010	ND	1	2/28/2011	3/3/2011	
Sample ID: PUB1607-07 (MW-6 - Water)								
Reporting Units: mg/l								
Arsenic	E200.8	11B1017	0.0010	0.0084	1	2/28/2011	3/3/2011	
Barium	E200.8	11B1017	0.0010	0.015	1	2/28/2011	3/3/2011	
Cadmium	E200.8	11B1017	0.0010	ND	1	2/28/2011	3/3/2011	
Chromium	E200.8	11B1017	0.0010	0.0015	1	2/28/2011	3/7/2011	
Lead	E200.8	11B1017	0.0010	0.018	1	2/28/2011	3/3/2011	
Selenium	E200.8	11B1017	0.0020	ND	1	2/28/2011	3/3/2011	
Silver	E200.8	11B1017	0.0010	ND	1	2/28/2011	3/3/2011	

TestAmerica Phoenix

Carlene McCutcheon
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 Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1607

Sampled: 02/25/11

Received: 02/25/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUB1607-03 (MW-4 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11C0020	2.0	ND	1	3/1/2011	3/1/2011	
Sample ID: PUB1607-04 (MW-10 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11C0020	2.0	ND	1	3/1/2011	3/1/2011	
Sample ID: PUB1607-05 (MW-7 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11C0020	2.0	ND	1	3/1/2011	3/1/2011	
Sample ID: PUB1607-06 (MW-3 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11C0020	2.0	ND	1	3/1/2011	3/1/2011	
Sample ID: PUB1607-07 (MW-6 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11C0020	2.0	17	1	3/1/2011	3/2/2011	

TestAmerica Phoenix

Carlene McCutcheon
 Project Manager

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ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1607

Sampled: 02/25/11

Received: 02/25/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0014 Extracted: 03/01/11										
Blank Analyzed: 03/01/2011 (11C0014-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	0.50	ug/l							
Bromochloromethane	ND	0.50	ug/l							
Bromodichloromethane	ND	0.50	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
2-Butanone (MEK)	ND	2.5	ug/l							
n-Butylbenzene	ND	0.50	ug/l							
sec-Butylbenzene	ND	0.50	ug/l							
tert-Butylbenzene	ND	0.50	ug/l							
Carbon disulfide	ND	0.50	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	0.50	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	0.50	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	0.50	ug/l							
4-Chlorotoluene	ND	0.50	ug/l							
Dibromochloromethane	ND	0.50	ug/l							
1,2-Dibromo-3-chloropropane	ND	2.5	ug/l							
1,2-Dibromoethane (EDB)	ND	0.50	ug/l							
Dibromomethane	ND	0.50	ug/l							
1,2-Dichlorobenzene	ND	0.50	ug/l							
1,3-Dichlorobenzene	ND	0.50	ug/l							
1,4-Dichlorobenzene	ND	0.50	ug/l							
Dichlorodifluoromethane	ND	0.50	ug/l							
1,1-Dichloroethane	ND	0.50	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	0.50	ug/l							
cis-1,2-Dichloroethene	ND	0.50	ug/l							
trans-1,2-Dichloroethene	ND	0.50	ug/l							
1,2-Dichloropropane	ND	0.50	ug/l							
1,3-Dichloropropane	ND	0.50	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							

TestAmerica Phoenix

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0014 Extracted: 03/01/11										
Blank Analyzed: 03/01/2011 (11C0014-BLK1)										
1,1-Dichloropropene	ND	0.50	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
2-Hexanone	ND	2.5	ug/l							
Iodomethane	ND	2.5	ug/l							
Isopropylbenzene	ND	0.50	ug/l							
p-Isopropyltoluene	ND	0.50	ug/l							
Methylene Chloride	ND	1.0	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	2.5	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	0.50	ug/l							
Naphthalene	ND	2.5	ug/l							
n-Propylbenzene	ND	0.50	ug/l							
Styrene	ND	0.50	ug/l							
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l							
Tetrachloroethene	ND	0.50	ug/l							
Toluene	ND	0.50	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	0.50	ug/l							
1,1,2-Trichloroethane	ND	0.50	ug/l							
Trichloroethene	ND	0.50	ug/l							
Trichlorofluoromethane	ND	0.50	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	0.50	ug/l							
1,3,5-Trimethylbenzene	ND	0.50	ug/l							
Vinyl Acetate	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
Xylenes, Total	ND	1.0	ug/l							
Surrogate: Dibromofluoromethane	25.2		ug/l	25.0		101	80-130			
Surrogate: Toluene-d8	24.6		ug/l	25.0		98	80-120			
Surrogate: 4-Bromofluorobenzene	25.7		ug/l	25.0		103	80-125			

TestAmerica Phoenix

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 11C0014 Extracted: 03/01/11										
LCS Analyzed: 03/01/2011 (11C0014-BS1)										
Acetone	14.9	10	ug/l	25.0		59	10-150			
Benzene	22.3	0.50	ug/l	25.0		89	80-120			
Bromobenzene	25.0	0.50	ug/l	25.0		100	80-120			
Bromochloromethane	22.8	0.50	ug/l	25.0		91	80-125			
Bromodichloromethane	23.3	0.50	ug/l	25.0		93	80-120			
Bromoform	22.2	1.0	ug/l	25.0		89	75-130			
Bromomethane	21.9	1.0	ug/l	25.0		88	55-150			
2-Butanone (MEK)	19.9	2.5	ug/l	25.0		80	40-150			
n-Butylbenzene	26.0	0.50	ug/l	25.0		104	80-130			
sec-Butylbenzene	25.2	0.50	ug/l	25.0		101	80-125			
tert-Butylbenzene	24.6	0.50	ug/l	25.0		99	80-120			
Carbon disulfide	24.2	0.50	ug/l	25.0		97	70-140			
Carbon tetrachloride	24.2	0.50	ug/l	25.0		97	75-130			
Chlorobenzene	22.8	0.50	ug/l	25.0		91	80-120			
Chloroethane	24.3	1.0	ug/l	25.0		97	70-130			
Chloroform	21.7	0.50	ug/l	25.0		87	75-120			
Chloromethane	23.1	1.0	ug/l	25.0		92	60-140			
2-Chlorotoluene	23.4	0.50	ug/l	25.0		94	80-120			
4-Chlorotoluene	25.2	0.50	ug/l	25.0		101	80-120			
Dibromochloromethane	21.8	0.50	ug/l	25.0		87	80-120			
1,2-Dibromo-3-chloropropane	23.9	2.5	ug/l	25.0		96	50-150			
1,2-Dibromoethane (EDB)	24.6	0.50	ug/l	25.0		99	80-120			
Dibromomethane	24.8	0.50	ug/l	25.0		99	75-120			
1,2-Dichlorobenzene	24.6	0.50	ug/l	25.0		99	80-120			
1,3-Dichlorobenzene	24.2	0.50	ug/l	25.0		97	80-120			
1,4-Dichlorobenzene	24.3	0.50	ug/l	25.0		97	80-120			
Dichlorodifluoromethane	27.3	0.50	ug/l	25.0		109	60-150			
1,1-Dichloroethane	22.5	0.50	ug/l	25.0		90	70-125			
1,2-Dichloroethane	21.2	0.50	ug/l	25.0		85	75-130			
1,1-Dichloroethene	23.2	0.50	ug/l	25.0		93	75-125			
cis-1,2-Dichloroethene	23.2	0.50	ug/l	25.0		93	80-120			
trans-1,2-Dichloroethene	23.4	0.50	ug/l	25.0		94	80-120			
1,2-Dichloropropane	23.5	0.50	ug/l	25.0		94	80-120			
1,3-Dichloropropane	24.0	0.50	ug/l	25.0		96	80-120			
2,2-Dichloropropane	22.8	1.0	ug/l	25.0		91	75-130			

TestAmerica Phoenix

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Sampled: 02/25/11

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0014 Extracted: 03/01/11										
LCS Analyzed: 03/01/2011 (11C0014-BS1)										
1,1-Dichloropropene	22.9	0.50	ug/l	25.0		92	75-120			
cis-1,3-Dichloropropene	25.4	0.50	ug/l	25.0		102	80-120			
trans-1,3-Dichloropropene	22.2	0.50	ug/l	25.0		89	80-125			
Ethylbenzene	24.6	0.50	ug/l	25.0		98	80-120			
Hexachlorobutadiene	27.1	1.0	ug/l	25.0		108	40-150			
2-Hexanone	24.9	2.5	ug/l	25.0		99	20-150			
Iodomethane	23.5	2.5	ug/l	25.0		94	80-130			
Isopropylbenzene	27.1	0.50	ug/l	25.0		108	80-130			
p-Isopropyltoluene	27.0	0.50	ug/l	25.0		108	80-130			
Methylene Chloride	20.5	1.0	ug/l	25.0		82	70-120			
4-Methyl-2-pentanone (MIBK)	29.6	2.5	ug/l	25.0		118	60-135			
Methyl-tert-butyl Ether (MTBE)	24.9	0.50	ug/l	25.0		99	70-130			
Naphthalene	26.4	2.5	ug/l	25.0		106	40-150			
n-Propylbenzene	26.1	0.50	ug/l	25.0		104	75-130			
Styrene	22.1	0.50	ug/l	25.0		88	80-120			
1,1,1,2-Tetrachloroethane	24.5	0.50	ug/l	25.0		98	75-125			
1,1,2,2-Tetrachloroethane	25.7	0.50	ug/l	25.0		103	80-120			
Tetrachloroethene	24.1	0.50	ug/l	25.0		97	70-130			
Toluene	23.0	0.50	ug/l	25.0		92	80-120			
1,2,3-Trichlorobenzene	27.7	1.0	ug/l	25.0		111	55-150			
1,2,4-Trichlorobenzene	25.2	1.0	ug/l	25.0		101	50-150			
1,1,1-Trichloroethane	22.3	0.50	ug/l	25.0		89	75-125			
1,1,2-Trichloroethane	25.0	0.50	ug/l	25.0		100	80-120			
Trichloroethene	23.1	0.50	ug/l	25.0		93	80-120			
Trichlorofluoromethane	24.8	0.50	ug/l	25.0		99	70-150			
1,2,3-Trichloropropane	25.9	1.0	ug/l	25.0		104	70-130			
1,2,4-Trimethylbenzene	26.2	0.50	ug/l	25.0		105	80-120			
1,3,5-Trimethylbenzene	24.7	0.50	ug/l	25.0		99	80-130			
Vinyl Acetate	38.8	1.0	ug/l	25.0		155	40-150			L3
Vinyl chloride	24.3	0.50	ug/l	25.0		97	70-130			
Xylenes, Total	48.0	1.0	ug/l	50.0		96	60-140			
Surrogate: Dibromofluoromethane	22.9		ug/l	25.0		92	80-120			
Surrogate: Toluene-d8	25.6		ug/l	25.0		102	80-120			
Surrogate: 4-Bromofluorobenzene	25.1		ug/l	25.0		100	80-120			

TestAmerica Phoenix

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0014 Extracted: 03/01/11										
LCS Dup Analyzed: 03/01/2011 (11C0014-BSD1)										
Acetone	14.8	10	ug/l	25.0		59	10-150	0.2	35	
Benzene	22.4	0.50	ug/l	25.0		89	80-120	0.2	15	
Bromobenzene	25.0	0.50	ug/l	25.0		100	80-120	0.2	15	
Bromochloromethane	25.2	0.50	ug/l	25.0		101	80-125	10	15	
Bromodichloromethane	24.4	0.50	ug/l	25.0		97	80-120	4	15	
Bromoform	22.9	1.0	ug/l	25.0		92	75-130	3	20	
Bromomethane	24.3	1.0	ug/l	25.0		97	55-150	10	20	
2-Butanone (MEK)	20.0	2.5	ug/l	25.0		80	40-150	0.5	35	
n-Butylbenzene	26.8	0.50	ug/l	25.0		107	80-130	3	15	
sec-Butylbenzene	25.6	0.50	ug/l	25.0		103	80-125	2	15	
tert-Butylbenzene	25.0	0.50	ug/l	25.0		100	80-120	1	15	
Carbon disulfide	27.8	0.50	ug/l	25.0		111	70-140	14	15	
Carbon tetrachloride	24.8	0.50	ug/l	25.0		99	75-130	3	20	
Chlorobenzene	24.1	0.50	ug/l	25.0		97	80-120	5	15	
Chloroethane	26.8	1.0	ug/l	25.0		107	70-130	10	15	
Chloroform	24.6	0.50	ug/l	25.0		98	75-120	13	15	
Chloromethane	25.8	1.0	ug/l	25.0		103	60-140	11	20	
2-Chlorotoluene	23.5	0.50	ug/l	25.0		94	80-120	0.4	15	
4-Chlorotoluene	25.3	0.50	ug/l	25.0		101	80-120	0.6	15	
Dibromochloromethane	22.0	0.50	ug/l	25.0		88	80-120	1	15	
1,2-Dibromo-3-chloropropane	24.0	2.5	ug/l	25.0		96	50-150	0.5	35	
1,2-Dibromoethane (EDB)	25.3	0.50	ug/l	25.0		101	80-120	3	15	
Dibromomethane	25.2	0.50	ug/l	25.0		101	75-120	1	15	
1,2-Dichlorobenzene	25.1	0.50	ug/l	25.0		101	80-120	2	15	
1,3-Dichlorobenzene	25.1	0.50	ug/l	25.0		100	80-120	4	15	
1,4-Dichlorobenzene	24.5	0.50	ug/l	25.0		98	80-120	1	15	
Dichlorodifluoromethane	30.1	0.50	ug/l	25.0		120	60-150	10	30	
1,1-Dichloroethane	24.4	0.50	ug/l	25.0		97	70-125	8	15	
1,2-Dichloroethane	23.7	0.50	ug/l	25.0		95	75-130	11	15	
1,1-Dichloroethene	24.7	0.50	ug/l	25.0		99	75-125	6	20	
cis-1,2-Dichloroethene	24.4	0.50	ug/l	25.0		97	80-120	5	15	
trans-1,2-Dichloroethene	25.7	0.50	ug/l	25.0		103	80-120	9	15	
1,2-Dichloropropane	25.1	0.50	ug/l	25.0		100	80-120	6	15	
1,3-Dichloropropane	24.5	0.50	ug/l	25.0		98	80-120	2	15	
2,2-Dichloropropane	25.4	1.0	ug/l	25.0		102	75-130	11	15	

TestAmerica Phoenix

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VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0014 Extracted: 03/01/11										
LCS Dup Analyzed: 03/01/2011 (11C0014-BSD1)										
1,1-Dichloropropene	24.4	0.50	ug/l	25.0		98	75-120	7	15	
cis-1,3-Dichloropropene	26.1	0.50	ug/l	25.0		104	80-120	3	15	
trans-1,3-Dichloropropene	24.2	0.50	ug/l	25.0		97	80-125	9	15	
Ethylbenzene	24.0	0.50	ug/l	25.0		96	80-120	2	15	
Hexachlorobutadiene	26.2	1.0	ug/l	25.0		105	40-150	3	35	
2-Hexanone	22.8	2.5	ug/l	25.0		91	20-150	9	35	
Iodomethane	26.6	2.5	ug/l	25.0		106	80-130	12	10	R6
Isopropylbenzene	27.5	0.50	ug/l	25.0		110	80-130	1	15	
p-Isopropyltoluene	26.4	0.50	ug/l	25.0		106	80-130	2	15	
Methylene Chloride	22.0	1.0	ug/l	25.0		88	70-120	7	15	
4-Methyl-2-pentanone (MIBK)	29.0	2.5	ug/l	25.0		116	60-135	2	25	
Methyl-tert-butyl Ether (MTBE)	26.5	0.50	ug/l	25.0		106	70-130	6	20	
Naphthalene	25.0	2.5	ug/l	25.0		100	40-150	6	30	
n-Propylbenzene	26.0	0.50	ug/l	25.0		104	75-130	0.5	15	
Styrene	23.0	0.50	ug/l	25.0		92	80-120	4	15	
1,1,1,2-Tetrachloroethane	24.6	0.50	ug/l	25.0		98	75-125	0.2	15	
1,1,2,2-Tetrachloroethane	26.0	0.50	ug/l	25.0		104	80-120	1	20	
Tetrachloroethene	24.3	0.50	ug/l	25.0		97	70-130	0.8	20	
Toluene	24.2	0.50	ug/l	25.0		97	80-120	5	15	
1,2,3-Trichlorobenzene	26.7	1.0	ug/l	25.0		107	55-150	4	35	
1,2,4-Trichlorobenzene	25.0	1.0	ug/l	25.0		100	50-150	0.8	30	
1,1,1-Trichloroethane	24.9	0.50	ug/l	25.0		100	75-125	11	15	
1,1,2-Trichloroethane	25.8	0.50	ug/l	25.0		103	80-120	3	15	
Trichloroethene	23.2	0.50	ug/l	25.0		93	80-120	0.5	15	
Trichlorofluoromethane	27.8	0.50	ug/l	25.0		111	70-150	11	25	
1,2,3-Trichloropropane	25.1	1.0	ug/l	25.0		101	70-130	3	20	
1,2,4-Trimethylbenzene	25.6	0.50	ug/l	25.0		102	80-120	2	15	
1,3,5-Trimethylbenzene	25.3	0.50	ug/l	25.0		101	80-130	2	15	
Vinyl Acetate	40.5	1.0	ug/l	25.0		162	40-150	4	25	L3
Vinyl chloride	26.4	0.50	ug/l	25.0		106	70-130	8	20	
Xylenes, Total	50.8	1.0	ug/l	50.0		102	60-140	6	15	
Surrogate: Dibromofluoromethane	25.1		ug/l	25.0		100	80-120			
Surrogate: Toluene-d8	24.7		ug/l	25.0		99	80-120			
Surrogate: 4-Bromofluorobenzene	25.4		ug/l	25.0		102	80-120			

TestAmerica Phoenix

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0014 Extracted: 03/01/11										
Matrix Spike Analyzed: 03/01/2011 (11C0014-MS1)					Source: PUC0001-05					
Acetone	12.6	10	ug/l	25.0	ND	50	10-150			
Benzene	25.2	0.50	ug/l	25.0	ND	101	70-125			
Bromobenzene	26.0	0.50	ug/l	25.0	ND	104	75-120			
Bromochloromethane	24.4	0.50	ug/l	25.0	ND	98	75-130			
Bromodichloromethane	27.1	0.50	ug/l	25.0	ND	108	75-125			
Bromoform	23.5	1.0	ug/l	25.0	ND	94	65-125			
Bromomethane	24.0	1.0	ug/l	25.0	ND	96	45-150			
2-Butanone (MEK)	18.6	2.5	ug/l	25.0	ND	74	15-150			
n-Butylbenzene	27.2	0.50	ug/l	25.0	ND	109	70-130			
sec-Butylbenzene	25.3	0.50	ug/l	25.0	ND	101	70-125			
tert-Butylbenzene	24.0	0.50	ug/l	25.0	ND	96	70-125			
Carbon disulfide	25.6	0.50	ug/l	25.0	ND	103	65-145			
Carbon tetrachloride	27.9	0.50	ug/l	25.0	ND	111	65-135			
Chlorobenzene	25.8	0.50	ug/l	25.0	ND	103	75-120			
Chloroethane	25.0	1.0	ug/l	25.0	ND	100	65-140			
Chloroform	24.0	0.50	ug/l	25.0	0.230	95	70-130			
Chloromethane	25.0	1.0	ug/l	25.0	ND	100	55-145			
2-Chlorotoluene	24.3	0.50	ug/l	25.0	ND	97	70-125			
4-Chlorotoluene	26.4	0.50	ug/l	25.0	ND	106	70-125			
Dibromochloromethane	24.7	0.50	ug/l	25.0	ND	99	70-130			
1,2-Dibromo-3-chloropropane	27.4	2.5	ug/l	25.0	ND	110	50-150			
1,2-Dibromoethane (EDB)	26.7	0.50	ug/l	25.0	ND	107	70-125			
Dibromomethane	28.3	0.50	ug/l	25.0	ND	113	70-120			
1,2-Dichlorobenzene	26.3	0.50	ug/l	25.0	ND	105	75-120			
1,3-Dichlorobenzene	26.2	0.50	ug/l	25.0	ND	105	75-120			
1,4-Dichlorobenzene	25.4	0.50	ug/l	25.0	ND	101	70-125			
Dichlorodifluoromethane	30.7	0.50	ug/l	25.0	ND	123	60-150			
1,1-Dichloroethane	25.3	0.50	ug/l	25.0	ND	101	70-130			
1,2-Dichloroethane	24.4	0.50	ug/l	25.0	0.130	97	65-140			
1,1-Dichloroethene	23.4	0.50	ug/l	25.0	ND	94	70-130			
cis-1,2-Dichloroethene	24.6	0.50	ug/l	25.0	ND	99	70-125			
trans-1,2-Dichloroethene	25.0	0.50	ug/l	25.0	ND	100	75-125			
1,2-Dichloropropane	27.2	0.50	ug/l	25.0	ND	109	75-125			
1,3-Dichloropropane	26.9	0.50	ug/l	25.0	ND	108	70-120			
2,2-Dichloropropane	23.1	1.0	ug/l	25.0	ND	92	65-140			

TestAmerica Phoenix

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Project ID: UPCO/3994018
Report Number: PUB1607

Sampled: 02/25/11
Received: 02/25/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0014 Extracted: 03/01/11										
Matrix Spike Analyzed: 03/01/2011 (11C0014-MS1)					Source: PUC0001-05					
1,1-Dichloropropene	26.5	0.50	ug/l	25.0	ND	106	65-130			
cis-1,3-Dichloropropene	26.8	0.50	ug/l	25.0	ND	107	75-130			
trans-1,3-Dichloropropene	25.4	0.50	ug/l	25.0	ND	102	70-130			
Ethylbenzene	26.0	0.50	ug/l	25.0	ND	104	70-125			
Hexachlorobutadiene	24.1	1.0	ug/l	25.0	ND	97	40-150			
2-Hexanone	22.6	2.5	ug/l	25.0	ND	90	20-150			
Iodomethane	25.8	2.5	ug/l	25.0	ND	103	60-150			
Isopropylbenzene	27.7	0.50	ug/l	25.0	ND	111	75-130			
p-Isopropyltoluene	25.5	0.50	ug/l	25.0	ND	102	70-130			
Methylene Chloride	22.2	1.0	ug/l	25.0	ND	89	65-130			
4-Methyl-2-pentanone (MIBK)	29.6	2.5	ug/l	25.0	ND	118	55-135			
Methyl-tert-butyl Ether (MTBE)	26.8	0.50	ug/l	25.0	ND	107	65-140			
Naphthalene	24.6	2.5	ug/l	25.0	ND	98	40-150			
n-Propylbenzene	26.2	0.50	ug/l	25.0	ND	105	70-130			
Styrene	15.4	0.50	ug/l	25.0	ND	62	55-135			
1,1,1,2-Tetrachloroethane	26.8	0.50	ug/l	25.0	ND	107	70-125			
1,1,2,2-Tetrachloroethane	26.8	0.50	ug/l	25.0	ND	107	70-125			
Tetrachloroethene	26.4	0.50	ug/l	25.0	ND	106	65-130			
Toluene	25.1	0.50	ug/l	25.0	ND	100	70-125			
1,2,3-Trichlorobenzene	28.2	1.0	ug/l	25.0	ND	113	50-150			
1,2,4-Trichlorobenzene	25.6	1.0	ug/l	25.0	ND	102	50-150			
1,1,1-Trichloroethane	25.3	0.50	ug/l	25.0	ND	101	70-130			
1,1,2-Trichloroethane	28.1	0.50	ug/l	25.0	ND	112	75-125			
Trichloroethene	26.9	0.50	ug/l	25.0	ND	108	70-125			
Trichlorofluoromethane	28.7	0.50	ug/l	25.0	ND	115	65-150			
1,2,3-Trichloropropane	25.9	1.0	ug/l	25.0	ND	104	70-130			
1,2,4-Trimethylbenzene	25.0	0.50	ug/l	25.0	ND	100	70-125			
1,3,5-Trimethylbenzene	25.5	0.50	ug/l	25.0	ND	102	75-130			
Vinyl Acetate	35.2	1.0	ug/l	25.0	ND	141	40-150			
Vinyl chloride	25.1	0.50	ug/l	25.0	ND	100	60-140			
Xylenes, Total	53.2	1.0	ug/l	50.0	ND	106	75-120			
Surrogate: Dibromofluoromethane	25.1		ug/l	25.0		100	80-130			
Surrogate: Toluene-d8	25.9		ug/l	25.0		104	80-120			
Surrogate: 4-Bromofluorobenzene	27.2		ug/l	25.0		109	80-125			

TestAmerica Phoenix

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Report Number: PUB1607

Sampled: 02/25/11

Received: 02/25/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0014 Extracted: 03/01/11										
Matrix Spike Dup Analyzed: 03/01/2011 (11C0014-MSD1)					Source: PUC0001-05					
Acetone	12.9	10	ug/l	25.0	ND	52	10-150	2	35	
Benzene	24.7	0.50	ug/l	25.0	ND	99	70-125	2	25	
Bromobenzene	25.4	0.50	ug/l	25.0	ND	101	75-120	2	20	
Bromochloromethane	26.1	0.50	ug/l	25.0	ND	105	75-130	7	20	
Bromodichloromethane	25.8	0.50	ug/l	25.0	ND	103	75-125	5	20	
Bromoform	22.9	1.0	ug/l	25.0	ND	92	65-125	3	25	
Bromomethane	23.3	1.0	ug/l	25.0	ND	93	45-150	3	35	
2-Butanone (MEK)	19.8	2.5	ug/l	25.0	ND	79	15-150	6	30	
n-Butylbenzene	23.9	0.50	ug/l	25.0	ND	96	70-130	13	30	
sec-Butylbenzene	23.6	0.50	ug/l	25.0	ND	94	70-125	7	30	
tert-Butylbenzene	23.4	0.50	ug/l	25.0	ND	94	70-125	3	25	
Carbon disulfide	25.2	0.50	ug/l	25.0	ND	101	65-145	2	25	
Carbon tetrachloride	26.7	0.50	ug/l	25.0	ND	107	65-135	4	25	
Chlorobenzene	24.6	0.50	ug/l	25.0	ND	98	75-120	5	20	
Chloroethane	25.2	1.0	ug/l	25.0	ND	101	65-140	0.8	25	
Chloroform	24.8	0.50	ug/l	25.0	0.230	98	70-130	3	20	
Chloromethane	23.6	1.0	ug/l	25.0	ND	94	55-145	6	35	
2-Chlorotoluene	23.0	0.50	ug/l	25.0	ND	92	70-125	5	25	
4-Chlorotoluene	24.9	0.50	ug/l	25.0	ND	99	70-125	6	25	
Dibromochloromethane	24.1	0.50	ug/l	25.0	ND	96	70-130	3	20	
1,2-Dibromo-3-chloropropane	25.2	2.5	ug/l	25.0	ND	101	50-150	8	30	
1,2-Dibromoethane (EDB)	26.5	0.50	ug/l	25.0	ND	106	70-125	1	20	
Dibromomethane	28.0	0.50	ug/l	25.0	ND	112	70-120	1	20	
1,2-Dichlorobenzene	24.5	0.50	ug/l	25.0	ND	98	75-120	7	20	
1,3-Dichlorobenzene	24.3	0.50	ug/l	25.0	ND	97	75-120	8	25	
1,4-Dichlorobenzene	24.5	0.50	ug/l	25.0	ND	98	70-125	3	20	
Dichlorodifluoromethane	30.2	0.50	ug/l	25.0	ND	121	60-150	2	30	
1,1-Dichloroethane	24.6	0.50	ug/l	25.0	ND	98	70-130	3	20	
1,2-Dichloroethane	25.6	0.50	ug/l	25.0	0.130	102	65-140	5	20	
1,1-Dichloroethene	22.7	0.50	ug/l	25.0	ND	91	70-130	3	25	
cis-1,2-Dichloroethene	24.2	0.50	ug/l	25.0	ND	97	70-125	2	20	
trans-1,2-Dichloroethene	25.1	0.50	ug/l	25.0	ND	100	75-125	0.4	25	
1,2-Dichloropropane	25.8	0.50	ug/l	25.0	ND	103	75-125	5	20	
1,3-Dichloropropane	26.2	0.50	ug/l	25.0	ND	105	70-120	3	20	
2,2-Dichloropropane	23.0	1.0	ug/l	25.0	ND	92	65-140	0.3	25	

TestAmerica Phoenix

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Report Number: PUB1607

Sampled: 02/25/11
Received: 02/25/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0014 Extracted: 03/01/11										
Matrix Spike Dup Analyzed: 03/01/2011 (11C0014-MSD1)					Source: PUC0001-05					
1,1-Dichloropropene	25.5	0.50	ug/l	25.0	ND	102	65-130	4	25	
cis-1,3-Dichloropropene	27.2	0.50	ug/l	25.0	ND	109	75-130	2	20	
trans-1,3-Dichloropropene	24.7	0.50	ug/l	25.0	ND	99	70-130	3	20	
Ethylbenzene	25.1	0.50	ug/l	25.0	ND	100	70-125	4	25	
Hexachlorobutadiene	20.3	1.0	ug/l	25.0	ND	81	40-150	17	30	
2-Hexanone	23.8	2.5	ug/l	25.0	ND	95	20-150	5	30	
Iodomethane	25.6	2.5	ug/l	25.0	ND	102	60-150	0.7	30	
Isopropylbenzene	25.3	0.50	ug/l	25.0	ND	101	75-130	9	25	
p-Isopropyltoluene	23.5	0.50	ug/l	25.0	ND	94	70-130	8	30	
Methylene Chloride	21.4	1.0	ug/l	25.0	ND	85	65-130	4	20	
4-Methyl-2-pentanone (MIBK)	30.4	2.5	ug/l	25.0	ND	122	55-135	3	25	
Methyl-tert-butyl Ether (MTBE)	26.7	0.50	ug/l	25.0	ND	107	65-140	0.2	25	
Naphthalene	22.5	2.5	ug/l	25.0	ND	90	40-150	9	30	
n-Propylbenzene	24.8	0.50	ug/l	25.0	ND	99	70-130	6	30	
Styrene	14.0	0.50	ug/l	25.0	ND	56	55-135	10	35	
1,1,1,2-Tetrachloroethane	26.6	0.50	ug/l	25.0	ND	106	70-125	0.9	20	
1,1,2,2-Tetrachloroethane	26.6	0.50	ug/l	25.0	ND	107	70-125	0.4	25	
Tetrachloroethene	25.0	0.50	ug/l	25.0	ND	100	65-130	5	25	
Toluene	24.4	0.50	ug/l	25.0	ND	98	70-125	3	20	
1,2,3-Trichlorobenzene	25.8	1.0	ug/l	25.0	ND	103	50-150	9	35	
1,2,4-Trichlorobenzene	22.2	1.0	ug/l	25.0	ND	89	50-150	14	25	
1,1,1-Trichloroethane	25.5	0.50	ug/l	25.0	ND	102	70-130	0.6	25	
1,1,2-Trichloroethane	27.7	0.50	ug/l	25.0	ND	111	75-125	1	20	
Trichloroethene	25.2	0.50	ug/l	25.0	ND	101	70-125	7	25	
Trichlorofluoromethane	26.8	0.50	ug/l	25.0	ND	107	65-150	7	25	
1,2,3-Trichloropropane	24.9	1.0	ug/l	25.0	ND	100	70-130	4	25	
1,2,4-Trimethylbenzene	23.2	0.50	ug/l	25.0	ND	93	70-125	7	30	
1,3,5-Trimethylbenzene	23.7	0.50	ug/l	25.0	ND	95	75-130	7	25	
Vinyl Acetate	35.1	1.0	ug/l	25.0	ND	140	40-150	0.2	30	
Vinyl chloride	23.9	0.50	ug/l	25.0	ND	96	60-140	5	25	
Xylenes, Total	51.0	1.0	ug/l	50.0	ND	102	75-120	4	15	
Surrogate: Dibromofluoromethane	26.6		ug/l	25.0		107	80-130			
Surrogate: Toluene-d8	26.3		ug/l	25.0		105	80-120			
Surrogate: 4-Bromofluorobenzene	27.6		ug/l	25.0		110	80-125			

TestAmerica Phoenix

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Report Number: PUB1607

Sampled: 02/25/11
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METHOD BLANK/QC DATA

1,4-DIOXANE BY GC/MS (EPA 5030B/8260B-SIM)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0032 Extracted: 03/02/11										
Blank Analyzed: 03/02/2011 (11C0032-BLK1)										
1,4-Dioxane	ND	1.0	ug/l							
Surrogate: Dibromofluoromethane	1.02		ug/l	1.00		102	70-140			
LCS Analyzed: 03/02/2011 (11C0032-BS1)										
1,4-Dioxane	9.66	1.0	ug/l	10.0		97	70-130			
Surrogate: Dibromofluoromethane	1.00		ug/l	1.00		100	70-140			
LCS Dup Analyzed: 03/02/2011 (11C0032-BSD1)										
1,4-Dioxane	9.98	1.0	ug/l	10.0		100	70-130	3	20	
Surrogate: Dibromofluoromethane	0.910		ug/l	1.00		91	70-140			
Matrix Spike Analyzed: 03/02/2011 (11C0032-MS1) Source: PUB1458-19										
1,4-Dioxane	20.6	1.0	ug/l	10.0	10.1	105	45-150			
Surrogate: Dibromofluoromethane	1.11		ug/l	1.00		111	70-140			
Matrix Spike Dup Analyzed: 03/02/2011 (11C0032-MSD1) Source: PUB1458-19										
1,4-Dioxane	20.2	1.0	ug/l	10.0	10.1	101	45-150	2	35	
Surrogate: Dibromofluoromethane	0.950		ug/l	1.00		95	70-140			

TestAmerica Phoenix

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PUB1607 <Page 31 of 37>

ARCADIS U.S., Inc. - Phoenix
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Project ID: UPCO/3994018

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METHOD BLANK/QC DATA

TOTAL METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0054 Extracted: 03/02/11										
Blank Analyzed: 03/03/2011 (11C0054-BLK1)										
Mercury	ND	0.00020	mg/l							
LCS Analyzed: 03/03/2011 (11C0054-BS1)										
Mercury	0.00905	0.00020	mg/l	0.0100		90	85-115			
LCS Dup Analyzed: 03/03/2011 (11C0054-BSD1)										
Mercury	0.00907	0.00020	mg/l	0.0100		91	85-115	0.2	20	
Matrix Spike Analyzed: 03/03/2011 (11C0054-MS1)										
Mercury	0.00994	0.00020	mg/l	0.0100	ND	99	70-130			
Matrix Spike Analyzed: 03/03/2011 (11C0054-MS2)										
Mercury	0.0103	0.00020	mg/l	0.0100	ND	103	70-130			
Matrix Spike Dup Analyzed: 03/03/2011 (11C0054-MSD1)										
Mercury	0.00898	0.00020	mg/l	0.0100	ND	90	70-130	10	20	
Matrix Spike Dup Analyzed: 03/03/2011 (11C0054-MSD2)										
Mercury	0.0102	0.00020	mg/l	0.0100	ND	102	70-130	0.9	20	

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METHOD BLANK/QC DATA

TOTAL METALS BY ICP/MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11B1017 Extracted: 02/28/11										
Blank Analyzed: 03/02/2011-03/03/2011 (11B1017-BLK1)										
Arsenic	ND	0.0010	mg/l							
Barium	ND	0.0010	mg/l							
Cadmium	ND	0.0010	mg/l							
Chromium	ND	0.0010	mg/l							
Lead	ND	0.0010	mg/l							
Selenium	ND	0.0020	mg/l							
Silver	ND	0.0010	mg/l							
LCS Analyzed: 03/02/2011-03/03/2011 (11B1017-BS1)										
Arsenic	0.102	0.0010	mg/l	0.100		102	85-115			
Barium	0.0995	0.0010	mg/l	0.100		99	85-115			
Cadmium	0.101	0.0010	mg/l	0.100		101	85-115			
Chromium	0.103	0.0010	mg/l	0.100		103	85-115			
Lead	0.104	0.0010	mg/l	0.100		104	85-115			
Selenium	0.104	0.0020	mg/l	0.100		104	85-115			
Silver	0.104	0.0010	mg/l	0.100		104	85-115			
LCS Dup Analyzed: 03/02/2011-03/03/2011 (11B1017-BSD1)										
Arsenic	0.102	0.0010	mg/l	0.100		102	85-115	0.2	20	
Barium	0.0997	0.0010	mg/l	0.100		100	85-115	0.3	20	
Cadmium	0.100	0.0010	mg/l	0.100		100	85-115	0.7	20	
Chromium	0.103	0.0010	mg/l	0.100		103	85-115	0.3	20	
Lead	0.103	0.0010	mg/l	0.100		103	85-115	0.6	20	
Selenium	0.104	0.0020	mg/l	0.100		104	85-115	0.5	20	
Silver	0.104	0.0010	mg/l	0.100		104	85-115	0.01	20	
Matrix Spike Analyzed: 03/02/2011-03/03/2011 (11B1017-MS1)										
					Source: PUB1627-01					
Arsenic	0.113	0.0010	mg/l	0.100	0.0100	103	70-130			
Barium	0.248	0.0010	mg/l	0.100	0.144	104	70-130			
Cadmium	0.0954	0.0010	mg/l	0.100	0.000595	95	70-130			
Chromium	0.114	0.0010	mg/l	0.100	0.0118	102	70-130			
Lead	0.101	0.0010	mg/l	0.100	0.00553	95	70-130			
Selenium	0.108	0.0020	mg/l	0.100	0.00318	105	70-130			
Silver	0.0373	0.0010	mg/l	0.100	ND	37	70-130			M2

TestAmerica Phoenix

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METHOD BLANK/QC DATA

TOTAL METALS BY ICP/MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11B1017 Extracted: 02/28/11										
Matrix Spike Analyzed: 03/02/2011-03/03/2011 (11B1017-MS2)					Source: PUB1627-02					
Arsenic	0.112	0.0010	mg/l	0.100	0.00855	103	70-130			
Barium	0.231	0.0010	mg/l	0.100	0.127	104	70-130			
Cadmium	0.0947	0.0010	mg/l	0.100	0.000430	94	70-130			
Chromium	0.112	0.0010	mg/l	0.100	0.0105	102	70-130			
Lead	0.0997	0.0010	mg/l	0.100	0.00520	95	70-130			
Selenium	0.108	0.0020	mg/l	0.100	0.00341	105	70-130			
Silver	0.0409	0.0010	mg/l	0.100	ND	41	70-130			M2
Matrix Spike Dup Analyzed: 03/02/2011-03/03/2011 (11B1017-MSD1)					Source: PUB1627-01					
Arsenic	0.113	0.0010	mg/l	0.100	0.0100	103	70-130	0.5	15	
Barium	0.245	0.0010	mg/l	0.100	0.144	101	70-130	1	15	
Cadmium	0.0956	0.0010	mg/l	0.100	0.000595	95	70-130	0.1	15	
Chromium	0.112	0.0010	mg/l	0.100	0.0118	100	70-130	2	15	
Lead	0.100	0.0010	mg/l	0.100	0.00553	95	70-130	0.5	15	
Selenium	0.105	0.0020	mg/l	0.100	0.00318	102	70-130	2	15	
Silver	0.0397	0.0010	mg/l	0.100	ND	40	70-130	6	15	M2
Matrix Spike Dup Analyzed: 03/02/2011-03/03/2011 (11B1017-MSD2)					Source: PUB1627-02					
Arsenic	0.112	0.0010	mg/l	0.100	0.00855	103	70-130	0.07	15	
Barium	0.229	0.0010	mg/l	0.100	0.127	102	70-130	0.7	15	
Cadmium	0.0961	0.0010	mg/l	0.100	0.000430	96	70-130	1	15	
Chromium	0.114	0.0010	mg/l	0.100	0.0105	103	70-130	1	15	
Lead	0.100	0.0010	mg/l	0.100	0.00520	95	70-130	0.5	15	
Selenium	0.107	0.0020	mg/l	0.100	0.00341	104	70-130	0.9	15	
Silver	0.0424	0.0010	mg/l	0.100	ND	42	70-130	4	15	M2

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018
Report Number: PUB1607

Sampled: 02/25/11
Received: 02/25/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0020 Extracted: 03/01/11										
Blank Analyzed: 03/01/2011 (11C0020-BLK1)										
Perchlorate	ND	2.0	ug/l							
LCS Analyzed: 03/01/2011 (11C0020-BS1)										
Perchlorate	26.6	NA	ug/l	25.0		106	85-115			
LCS Dup Analyzed: 03/01/2011 (11C0020-BSD1)										
Perchlorate	24.2	NA	ug/l	25.0		97	85-115	10	15	
Duplicate Analyzed: 03/01/2011 (11C0020-DUP1)										
Perchlorate	2.08	2.0	ug/l			Source: PUC0001-05		35	15	R9
Duplicate Analyzed: 03/01/2011 (11C0020-DUP2)										
Perchlorate	1.91	2.0	ug/l			Source: PUC0046-03		42	15	R9
Matrix Spike Analyzed: 03/01/2011 (11C0020-MS1)										
Perchlorate	27.3	2.0	ug/l	25.0	3.81	94	80-120			
Matrix Spike Analyzed: 03/01/2011 (11C0020-MS2)										
Perchlorate	28.7	2.0	ug/l	25.0	5.88	91	80-120			
Matrix Spike Dup Analyzed: 03/01/2011 (11C0020-MSD1)										
Perchlorate	26.9	2.0	ug/l	25.0	3.81	92	80-120	2	15	
Matrix Spike Dup Analyzed: 03/01/2011 (11C0020-MSD2)										
Perchlorate	28.6	2.0	ug/l	25.0	5.88	91	80-120	0.3	15	

TestAmerica Phoenix

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4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1607

Sampled: 02/25/11

Received: 02/25/11

DATA QUALIFIERS AND DEFINITIONS

- L3** The associated blank spike recovery was above method acceptance limits.
- M2** Matrix spike recovery was low; the associated blank spike recovery was acceptable.
- R6** LFB/LFBD RPD exceeded the method acceptance limit. Recovery met acceptance criteria.
- R9** Sample RPD exceeded the laboratory acceptance limit
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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PUB1607 <Page 36 of 37>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1607

Sampled: 02/25/11

Received: 02/25/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
E200.8	Water		X
E245.1	Water		X
EPA 314.0	Water		X
EPA 8260B-SIM	Water		X
EPA 8260B	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

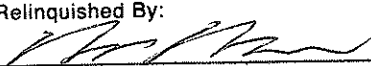
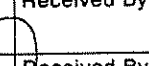
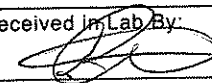
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THE LEADER IN ENVIRONMENTAL TESTING

TAL-0013-550 (10/10)

[] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
 [] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
 [] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Page 1 of 2

Client Name/Address: Malcolm Pirnie Inc. 4646 E Van Buren St Ste 400 Phoenix AZ 85008							Project/PO Number: VPCO/399408							Analysis Required						
Project Manager: Graig Hammond							Phone Number: 602-241-1770							314 perchlorate 200.3 200.3 245.1 4860B 1065 8260 B + SANW 1,4-Dioxane						
Sampler: Brand Brockman							Fax Number: 602-731-0131													
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives											Special Instructions			
TB022511-1	Lab H ₂ O	VOA	1	-	-	HCl					X						PUB 1607-01			
TB022511-2	Lab H ₂ O	VOA	1	-	-	HCl							X				- 02			
MW-4	GW	500ml poly	1	2/25/11	09:49	None	X										03			
MW-4	GW	500ml poly	1	2/25/11	09:49	HNO ₃		X	X								↓			
MW-4	GW	VOA	6	2/25/11	09:49	HCl					X	X					↓			
MW-10	GW	500ml poly	1	2/25/11	12:02	None	X										04			
MW-10	GW	500ml poly	1	2/25/11	12:02	HNO ₃		X	X								↓			
MW-10	GW	VOA	6	2/25/11	12:02	HCl					X	X					↓			
MW-7	GW	500ml poly	1	2/25/11	14:00	None	X										05			
MW-7	GW	500ml poly	1	2/25/11	14:00	HNO ₃		X	X								↓			
MW-7	GW	VOA	6	2/25/11	14:00	HCl					X	X					↓			
MW-3	GW	500ml poly	1	2/25/11	14:55	None	X										06			
MW-3	GW	500ml poly	1	2/25/11	14:55	HNO ₃		X	X								↓			
MW-3	GW	500ml poly	6	2/25/11	14:55	HCl					X	X					↓			
Relinquished By: 				Date/Time: 2/25/11 18:00			Received By: 				Date/Time:			Turnaround Time: (Check)						
Relinquished By:				Date/Time:			Received By:				Date/Time:			same day _____ 72 hours _____ 24 hours _____ 5 days _____ 48 hours _____ normal <input checked="" type="checkbox"/>						
Relinquished By:				Date/Time:			Received In Lab By: 				Date/Time: 2/25/11 1800			Sample Integrity: (Check)						
Relinquished By:				Date/Time:			Received In Lab By:				Date/Time:			intact <input checked="" type="checkbox"/> on ice <input checked="" type="checkbox"/>						

Note: By relinquishing samples to TestAmerica, 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.

2/25/11

3.2 °C

THE LEADER IN ENVIRONMENTAL TESTING
TAL-0013-550 (10/10)

[] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
 [] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
 [] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Client Name/Address: Malcolm Pirmic Inc 1616 E Van Buren St Ste 400 Phoenix AZ 85008			Project/PO Number: VPCO/3994016				Analysis Required														
Project Manager: Greg Summard			Phone Number: 602-241-1770				314 perchlorate	260.8 Asy. Perchl. Cr 5.1/10/10	245.1	113	8260 B	VOCs	8260 B spin	1,4-Dioxane	Special Instructions						
Sampler: Brian Brochman			Fax Number: 602-231-0131																		
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives															
MW-6	GW	500ml poly	1	2/25/11	10:32	None	X														
MW-6	GW	500ml poly	1	2/25/11	10:32	NAD3		X	X												
MW-6	GW	VOA	6	2/25/11	10:32	NCl				X	X										
BB																					
Relinquished By: <i>[Signature]</i>			Date/Time: 2/25/11 18:00		Received By: <i>[Signature]</i>			Date/Time:			Turnaround Time: (Check)										
Relinquished By:			Date/Time:		Received By:			Date/Time:			same day _____		72 hours _____								
Relinquished By:			Date/Time:		Received in Lab By: <i>[Signature]</i>			Date/Time: 2/25/11 1800			24 hours _____		5 days _____								
Relinquished By:			Date/Time:		Received in Lab By:			Date/Time:			48 hours _____		normal <input checked="" type="checkbox"/>								
Relinquished By:			Date/Time:		Received in Lab By:			Date/Time:			Sample Integrity: (Check)		intact <input checked="" type="checkbox"/> on ice <input checked="" type="checkbox"/>								

Note: By relinquishing samples to TestAmerica, 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.

3.20

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO/3994018

Sampled: 02/28/11
Received: 02/28/11
Issued: 03/10/11 16:26

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID

PUB1675-01
PUB1675-02
PUB1675-03

CLIENT ID

TB022811-1
TB022811-2
MW-11

MATRIX

Water
Water
Water

SAMPLE RECEIPT: Samples were received intact, at 2°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

L3 EPA 8260B:Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.

N1 EPA 8260B:The Laboratory Control Sample / Laboratory Control Sample Duplicate as well as the Matrix Spike / Matrix Spike Duplicate recovered high and outside of acceptance limits for Vinyl acetate. All associated samples are non-detect for this compound and therefore should not be impacted.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:



TestAmerica Phoenix

Carlene McCutcheon
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1675

Sampled: 02/28/11

Received: 02/28/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUB1675-01 (TB022811-1 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11C0051	10	ND	1	3/2/2011	3/2/2011	
Benzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Bromobenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Bromochloromethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Bromodichloromethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Bromoform	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
Bromomethane	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
2-Butanone (MEK)	EPA 8260B	11C0051	2.5	ND	1	3/2/2011	3/2/2011	
n-Butylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
sec-Butylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
tert-Butylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Carbon disulfide	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Carbon tetrachloride	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Chlorobenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Chloroethane	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
Chloroform	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Chloromethane	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
2-Chlorotoluene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
4-Chlorotoluene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Dibromochloromethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11C0051	2.5	ND	1	3/2/2011	3/2/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Dibromomethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,2-Dichlorobenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,3-Dichlorobenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,4-Dichlorobenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Dichlorodifluoromethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,1-Dichloroethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,2-Dichloroethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,1-Dichloroethene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
cis-1,2-Dichloroethene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
trans-1,2-Dichloroethene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,2-Dichloropropane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,3-Dichloropropane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
2,2-Dichloropropane	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
1,1-Dichloropropene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
cis-1,3-Dichloropropene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
trans-1,3-Dichloropropene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Ethylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Hexachlorobutadiene	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1675

Sampled: 02/28/11

Received: 02/28/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUB1675-01 (TB022811-1 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11C0051	2.5	ND	1	3/2/2011	3/2/2011	
Iodomethane	EPA 8260B	11C0051	2.5	ND	1	3/2/2011	3/2/2011	
Isopropylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
p-Isopropyltoluene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Methylene Chloride	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11C0051	2.5	ND	1	3/2/2011	3/2/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Naphthalene	EPA 8260B	11C0051	2.5	ND	1	3/2/2011	3/2/2011	
n-Propylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Styrene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Tetrachloroethene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Toluene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
1,1,1-Trichloroethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,1,2-Trichloroethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Trichloroethene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Trichlorofluoromethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,2,3-Trichloropropane	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Vinyl Acetate	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	L3
Vinyl chloride	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Xylenes, Total	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
Surrogate: Dibromofluoromethane (80-130%)				115 %				
Surrogate: Toluene-d8 (80-120%)				106 %				
Surrogate: 4-Bromofluorobenzene (80-125%)				96 %				

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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PUB1675 <Page 3 of 26>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1675

Sampled: 02/28/11

Received: 02/28/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUB1675-03 (MW-11 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11C0051	10	ND	1	3/2/2011	3/2/2011	
Benzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Bromobenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Bromochloromethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Bromodichloromethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Bromoform	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
Bromomethane	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
2-Butanone (MEK)	EPA 8260B	11C0051	2.5	ND	1	3/2/2011	3/2/2011	
n-Butylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
sec-Butylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
tert-Butylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Carbon disulfide	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Carbon tetrachloride	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Chlorobenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Chloroethane	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
Chloroform	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Chloromethane	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
2-Chlorotoluene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
4-Chlorotoluene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Dibromochloromethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11C0051	2.5	ND	1	3/2/2011	3/2/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Dibromomethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,2-Dichlorobenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,3-Dichlorobenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,4-Dichlorobenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Dichlorodifluoromethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,1-Dichloroethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,2-Dichloroethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,1-Dichloroethene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
cis-1,2-Dichloroethene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
trans-1,2-Dichloroethene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,2-Dichloropropane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,3-Dichloropropane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
2,2-Dichloropropane	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
1,1-Dichloropropene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
cis-1,3-Dichloropropene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
trans-1,3-Dichloropropene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Ethylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Hexachlorobutadiene	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	

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Carlene McCutcheon
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1675

Sampled: 02/28/11

Received: 02/28/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUB1675-03 (MW-11 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11C0051	2.5	ND	1	3/2/2011	3/2/2011	
Iodomethane	EPA 8260B	11C0051	2.5	ND	1	3/2/2011	3/2/2011	
Isopropylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
p-Isopropyltoluene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Methylene Chloride	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11C0051	2.5	ND	1	3/2/2011	3/2/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Naphthalene	EPA 8260B	11C0051	2.5	ND	1	3/2/2011	3/2/2011	
n-Propylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Styrene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Tetrachloroethene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Toluene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
1,1,1-Trichloroethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,1,2-Trichloroethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Trichloroethene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Trichlorofluoromethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,2,3-Trichloropropane	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Vinyl Acetate	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	L3
Vinyl chloride	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Xylenes, Total	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
Surrogate: Dibromofluoromethane (80-130%)				120 %				
Surrogate: Toluene-d8 (80-120%)				107 %				
Surrogate: 4-Bromofluorobenzene (80-125%)				105 %				

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Carlene McCutcheon
Project Manager

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PUB1675 <Page 5 of 26>

ARCADIS U.S., Inc. - Phoenix
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 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1675

Sampled: 02/28/11

Received: 02/28/11

1,4-DIOXANE BY GC/MS (EPA 5030B/8260B-SIM)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUB1675-02 (TB022811-2 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8260B-SIM	11C0032	1.0	ND	1	3/2/2011	3/2/2011	
<i>Surrogate: Dibromofluoromethane (70-140%)</i>				<i>110 %</i>				
Sample ID: PUB1675-03 (MW-11 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8260B-SIM	11C0032	1.0	ND	1	3/2/2011	3/2/2011	
<i>Surrogate: Dibromofluoromethane (70-140%)</i>				<i>104 %</i>				

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Attention: Gregory Guimond

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Report Number: PUB1675

Sampled: 02/28/11

Received: 02/28/11

TOTAL METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUB1675-03 (MW-11 - Water)								
Reporting Units: mg/l								
Mercury	E245.1	11C0056	0.00020	ND	1	3/2/2011	3/3/2011	

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PUB1675 <Page 7 of 26>

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Report Number: PUB1675

Sampled: 02/28/11

Received: 02/28/11

TOTAL METALS BY ICP/MS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUB1675-03 (MW-11 - Water)								
Reporting Units: mg/l								
Arsenic	E200.8	11B1017	0.0010	0.0079	1	2/28/2011	3/3/2011	
Barium	E200.8	11B1017	0.0010	0.13	1	2/28/2011	3/3/2011	
Cadmium	E200.8	11B1017	0.0010	ND	1	2/28/2011	3/3/2011	
Chromium	E200.8	11B1017	0.0010	0.0083	1	2/28/2011	3/7/2011	
Lead	E200.8	11B1017	0.0010	ND	1	2/28/2011	3/3/2011	
Selenium	E200.8	11B1017	0.0020	0.0044	1	2/28/2011	3/3/2011	
Silver	E200.8	11B1017	0.0010	ND	1	2/28/2011	3/3/2011	

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Received: 02/28/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUB1675-03 (MW-11 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11C0081	2.0	ND	1	3/2/2011	3/2/2011	

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PUB1675 <Page 9 of 26>

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Project ID: UPCO/3994018
Report Number: PUB1675

Sampled: 02/28/11
Received: 02/28/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits RPD	RPD Limit	Data Qualifiers
Batch: 11C0051 Extracted: 03/02/11									
Blank Analyzed: 03/02/2011 (11C0051-BLK1)									
Acetone	ND	10	ug/l						
Benzene	ND	0.50	ug/l						
Bromobenzene	ND	0.50	ug/l						
Bromochloromethane	ND	0.50	ug/l						
Bromodichloromethane	ND	0.50	ug/l						
Bromoform	ND	1.0	ug/l						
Bromomethane	ND	1.0	ug/l						
2-Butanone (MEK)	ND	2.5	ug/l						
n-Butylbenzene	ND	0.50	ug/l						
sec-Butylbenzene	ND	0.50	ug/l						
tert-Butylbenzene	ND	0.50	ug/l						
Carbon disulfide	ND	0.50	ug/l						
Carbon tetrachloride	ND	0.50	ug/l						
Chlorobenzene	ND	0.50	ug/l						
Chloroethane	ND	1.0	ug/l						
Chloroform	ND	0.50	ug/l						
Chloromethane	ND	1.0	ug/l						
2-Chlorotoluene	ND	0.50	ug/l						
4-Chlorotoluene	ND	0.50	ug/l						
Dibromochloromethane	ND	0.50	ug/l						
1,2-Dibromo-3-chloropropane	ND	2.5	ug/l						
1,2-Dibromoethane (EDB)	ND	0.50	ug/l						
Dibromomethane	ND	0.50	ug/l						
1,2-Dichlorobenzene	ND	0.50	ug/l						
1,3-Dichlorobenzene	ND	0.50	ug/l						
1,4-Dichlorobenzene	ND	0.50	ug/l						
Dichlorodifluoromethane	ND	0.50	ug/l						
1,1-Dichloroethane	ND	0.50	ug/l						
1,2-Dichloroethane	ND	0.50	ug/l						
1,1-Dichloroethene	ND	0.50	ug/l						
cis-1,2-Dichloroethene	ND	0.50	ug/l						
trans-1,2-Dichloroethene	ND	0.50	ug/l						
1,2-Dichloropropane	ND	0.50	ug/l						
1,3-Dichloropropane	ND	0.50	ug/l						
2,2-Dichloropropane	ND	1.0	ug/l						

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Project ID: UPCO/3994018

Report Number: PUB1675

Sampled: 02/28/11

Received: 02/28/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0051 Extracted: 03/02/11										
Blank Analyzed: 03/02/2011 (11C0051-BLK1)										
1,1-Dichloropropene	ND	0.50	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
2-Hexanone	ND	2.5	ug/l							
Iodomethane	ND	2.5	ug/l							
Isopropylbenzene	ND	0.50	ug/l							
p-Isopropyltoluene	ND	0.50	ug/l							
Methylene Chloride	ND	1.0	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	2.5	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	0.50	ug/l							
Naphthalene	ND	2.5	ug/l							
n-Propylbenzene	ND	0.50	ug/l							
Styrene	ND	0.50	ug/l							
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l							
Tetrachloroethene	ND	0.50	ug/l							
Toluene	ND	0.50	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	0.50	ug/l							
1,1,2-Trichloroethane	ND	0.50	ug/l							
Trichloroethene	ND	0.50	ug/l							
Trichlorofluoromethane	ND	0.50	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	0.50	ug/l							
1,3,5-Trimethylbenzene	ND	0.50	ug/l							
Vinyl Acetate	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
Xylenes, Total	ND	1.0	ug/l							
Surrogate: Dibromofluoromethane	24.1		ug/l	25.0		97	80-130			
Surrogate: Toluene-d8	25.2		ug/l	25.0		101	80-120			
Surrogate: 4-Bromofluorobenzene	25.5		ug/l	25.0		102	80-125			

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Project ID: UPCO/3994018
Report Number: PUB1675

Sampled: 02/28/11
Received: 02/28/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0051 Extracted: 03/02/11										
LCS Analyzed: 03/02/2011 (11C0051-BS1)										
Acetone	23.1	10	ug/l	25.0		92	30-150			
Benzene	23.9	0.50	ug/l	25.0		96	70-130			
Bromobenzene	25.8	0.50	ug/l	25.0		103	70-130			
Bromochloromethane	23.7	0.50	ug/l	25.0		95	70-130			
Bromodichloromethane	25.4	0.50	ug/l	25.0		101	70-130			
Bromoform	23.9	1.0	ug/l	25.0		96	67-122			
Bromomethane	24.7	1.0	ug/l	25.0		99	64-132			
2-Butanone (MEK)	26.0	2.5	ug/l	25.0		104	48-150			
n-Butylbenzene	27.5	0.50	ug/l	25.0		110	70-130			
sec-Butylbenzene	26.8	0.50	ug/l	25.0		107	70-130			
tert-Butylbenzene	25.7	0.50	ug/l	25.0		103	70-130			
Carbon disulfide	26.9	0.50	ug/l	25.0		108	61-126			
Carbon tetrachloride	27.1	0.50	ug/l	25.0		108	70-130			
Chlorobenzene	24.7	0.50	ug/l	25.0		99	70-130			
Chloroethane	26.7	1.0	ug/l	25.0		107	69-128			
Chloroform	24.2	0.50	ug/l	25.0		97	70-130			
Chloromethane	26.4	1.0	ug/l	25.0		106	56-131			
2-Chlorotoluene	24.4	0.50	ug/l	25.0		97	70-130			
4-Chlorotoluene	25.6	0.50	ug/l	25.0		102	70-130			
Dibromochloromethane	24.3	0.50	ug/l	25.0		97	70-130			
1,2-Dibromo-3-chloropropane	26.7	2.5	ug/l	25.0		107	63-129			
1,2-Dibromoethane (EDB)	25.4	0.50	ug/l	25.0		101	70-130			
Dibromomethane	26.1	0.50	ug/l	25.0		104	70-130			
1,2-Dichlorobenzene	25.6	0.50	ug/l	25.0		102	70-130			
1,3-Dichlorobenzene	25.0	0.50	ug/l	25.0		100	70-130			
1,4-Dichlorobenzene	24.9	0.50	ug/l	25.0		99	70-130			
Dichlorodifluoromethane	31.7	0.50	ug/l	25.0		127	42-150			
1,1-Dichloroethane	24.1	0.50	ug/l	25.0		96	70-130			
1,2-Dichloroethane	25.8	0.50	ug/l	25.0		103	72-133			
1,1-Dichloroethene	23.0	0.50	ug/l	25.0		92	70-130			
cis-1,2-Dichloroethene	23.2	0.50	ug/l	25.0		93	70-130			
trans-1,2-Dichloroethene	25.5	0.50	ug/l	25.0		102	70-130			
1,2-Dichloropropane	24.8	0.50	ug/l	25.0		99	70-130			
1,3-Dichloropropane	26.0	0.50	ug/l	25.0		104	70-130			
2,2-Dichloropropane	25.4	1.0	ug/l	25.0		102	70-130			

TestAmerica Phoenix

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Project ID: UPCO/3994018
Report Number: PUB1675

Sampled: 02/28/11
Received: 02/28/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0051 Extracted: 03/02/11										
LCS Analyzed: 03/02/2011 (11C0051-BS1)										
1,1-Dichloropropene	25.6	0.50	ug/l	25.0		103	70-130			
cis-1,3-Dichloropropene	25.3	0.50	ug/l	25.0		101	70-130			
trans-1,3-Dichloropropene	24.3	0.50	ug/l	25.0		97	70-130			
Ethylbenzene	24.9	0.50	ug/l	25.0		100	70-130			
Hexachlorobutadiene	28.4	1.0	ug/l	25.0		113	70-130			
2-Hexanone	30.1	2.5	ug/l	25.0		120	44-150			
Iodomethane	24.8	2.5	ug/l	25.0		99	58-138			
Isopropylbenzene	27.6	0.50	ug/l	25.0		110	70-130			
p-Isopropyltoluene	26.4	0.50	ug/l	25.0		106	80-130			
Methylene Chloride	21.6	1.0	ug/l	25.0		86	70-130			
4-Methyl-2-pentanone (MIBK)	31.0	2.5	ug/l	25.0		124	61-142			
Methyl-tert-butyl Ether (MTBE)	27.2	0.50	ug/l	25.0		109	70-130			
Naphthalene	25.6	2.5	ug/l	25.0		103	65-129			
n-Propylbenzene	26.1	0.50	ug/l	25.0		105	70-130			
Styrene	23.0	0.50	ug/l	25.0		92	70-130			
1,1,1,2-Tetrachloroethane	25.6	0.50	ug/l	25.0		102	70-130			
1,1,2,2-Tetrachloroethane	27.1	0.50	ug/l	25.0		108	70-130			
Tetrachloroethene	26.1	0.50	ug/l	25.0		104	70-130			
Toluene	22.8	0.50	ug/l	25.0		91	70-130			
1,2,3-Trichlorobenzene	27.4	1.0	ug/l	25.0		110	70-130			
1,2,4-Trichlorobenzene	24.5	1.0	ug/l	25.0		98	70-130			
1,1,1-Trichloroethane	26.2	0.50	ug/l	25.0		105	70-130			
1,1,2-Trichloroethane	26.3	0.50	ug/l	25.0		105	70-130			
Trichloroethene	23.8	0.50	ug/l	25.0		95	70-130			
Trichlorofluoromethane	29.4	0.50	ug/l	25.0		118	78-149			
1,2,3-Trichloropropane	27.9	1.0	ug/l	25.0		111	70-130			
1,2,4-Trimethylbenzene	25.2	0.50	ug/l	25.0		101	70-130			
1,3,5-Trimethylbenzene	25.2	0.50	ug/l	25.0		101	70-130			
Vinyl Acetate	41.1	1.0	ug/l	25.0		164	57-149			L3
Vinyl chloride	27.3	0.50	ug/l	25.0		109	66-134			
Xylenes, Total	51.3	1.0	ug/l	50.0		103	70-130			
Surrogate: Dibromofluoromethane	26.2		ug/l	25.0		105	70-130			
Surrogate: Toluene-d8	26.0		ug/l	25.0		104	70-130			
Surrogate: 4-Bromofluorobenzene	27.2		ug/l	25.0		109	70-130			

TestAmerica Phoenix

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Report Number: PUB1675

Sampled: 02/28/11

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0051 Extracted: 03/02/11										
LCS Dup Analyzed: 03/02/2011 (11C0051-BSD1)										
Acetone	21.0	10	ug/l	25.0		84	30-150	9	35	
Benzene	23.1	0.50	ug/l	25.0		92	70-130	3	20	
Bromobenzene	25.7	0.50	ug/l	25.0		103	70-130	0.4	20	
Bromochloromethane	24.5	0.50	ug/l	25.0		98	70-130	4	20	
Bromodichloromethane	24.9	0.50	ug/l	25.0		100	70-130	2	20	
Bromoform	24.5	1.0	ug/l	25.0		98	67-122	2	20	
Bromomethane	24.6	1.0	ug/l	25.0		98	64-132	0.7	20	
2-Butanone (MEK)	24.0	2.5	ug/l	25.0		96	48-150	8	33	
n-Butylbenzene	27.0	0.50	ug/l	25.0		108	70-130	2	20	
sec-Butylbenzene	26.4	0.50	ug/l	25.0		106	70-130	1	20	
tert-Butylbenzene	24.8	0.50	ug/l	25.0		99	70-130	4	20	
Carbon disulfide	25.8	0.50	ug/l	25.0		103	61-126	4	20	
Carbon tetrachloride	26.8	0.50	ug/l	25.0		107	70-130	1	20	
Chlorobenzene	24.8	0.50	ug/l	25.0		99	70-130	0.3	20	
Chloroethane	25.8	1.0	ug/l	25.0		103	69-128	3	20	
Chloroform	23.6	0.50	ug/l	25.0		94	70-130	3	20	
Chloromethane	26.5	1.0	ug/l	25.0		106	56-131	0.1	20	
2-Chlorotoluene	24.2	0.50	ug/l	25.0		97	70-130	0.6	20	
4-Chlorotoluene	25.4	0.50	ug/l	25.0		102	70-130	0.6	20	
Dibromochloromethane	24.2	0.50	ug/l	25.0		97	70-130	0.5	20	
1,2-Dibromo-3-chloropropane	28.2	2.5	ug/l	25.0		113	63-129	5	25	
1,2-Dibromoethane (EDB)	27.0	0.50	ug/l	25.0		108	70-130	6	20	
Dibromomethane	25.8	0.50	ug/l	25.0		103	70-130	1	20	
1,2-Dichlorobenzene	24.5	0.50	ug/l	25.0		98	70-130	4	20	
1,3-Dichlorobenzene	24.6	0.50	ug/l	25.0		98	70-130	2	20	
1,4-Dichlorobenzene	24.6	0.50	ug/l	25.0		99	70-130	0.9	20	
Dichlorodifluoromethane	30.5	0.50	ug/l	25.0		122	42-150	4	20	
1,1-Dichloroethane	23.5	0.50	ug/l	25.0		94	70-130	3	20	
1,2-Dichloroethane	25.0	0.50	ug/l	25.0		100	72-133	3	20	
1,1-Dichloroethene	21.9	0.50	ug/l	25.0		88	70-130	5	20	
cis-1,2-Dichloroethene	23.4	0.50	ug/l	25.0		94	70-130	1	20	
trans-1,2-Dichloroethene	25.1	0.50	ug/l	25.0		100	70-130	2	20	
1,2-Dichloropropane	23.5	0.50	ug/l	25.0		94	70-130	5	20	
1,3-Dichloropropane	24.9	0.50	ug/l	25.0		99	70-130	4	20	
2,2-Dichloropropane	24.8	1.0	ug/l	25.0		99	70-130	2	20	

TestAmerica Phoenix

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Received: 02/28/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0051 Extracted: 03/02/11										
LCS Dup Analyzed: 03/02/2011 (11C0051-BSD1)										
1,1-Dichloropropene	24.9	0.50	ug/l	25.0		100	70-130	3	20	
cis-1,3-Dichloropropene	25.6	0.50	ug/l	25.0		103	70-130	1	20	
trans-1,3-Dichloropropene	23.6	0.50	ug/l	25.0		94	70-130	3	20	
Ethylbenzene	25.0	0.50	ug/l	25.0		100	70-130	0.3	20	
Hexachlorobutadiene	27.0	1.0	ug/l	25.0		108	70-130	5	20	
2-Hexanone	28.0	2.5	ug/l	25.0		112	44-150	7	31	
Iodomethane	24.2	2.5	ug/l	25.0		97	58-138	2	25	
Isopropylbenzene	27.2	0.50	ug/l	25.0		109	70-130	1	20	
p-Isopropyltoluene	26.9	0.50	ug/l	25.0		107	80-130	2	15	
Methylene Chloride	21.4	1.0	ug/l	25.0		85	70-130	0.9	20	
4-Methyl-2-pentanone (MIBK)	30.5	2.5	ug/l	25.0		122	61-142	1	22	
Methyl-tert-butyl Ether (MTBE)	25.1	0.50	ug/l	25.0		100	70-130	8	20	
Naphthalene	24.0	2.5	ug/l	25.0		96	65-129	6	20	
n-Propylbenzene	26.5	0.50	ug/l	25.0		106	70-130	1	20	
Styrene	22.9	0.50	ug/l	25.0		91	70-130	0.6	20	
1,1,1,2-Tetrachloroethane	25.0	0.50	ug/l	25.0		100	70-130	2	20	
1,1,2,2-Tetrachloroethane	28.5	0.50	ug/l	25.0		114	70-130	5	20	
Tetrachloroethene	25.2	0.50	ug/l	25.0		101	70-130	4	20	
Toluene	22.7	0.50	ug/l	25.0		91	70-130	0.6	20	
1,2,3-Trichlorobenzene	25.9	1.0	ug/l	25.0		104	70-130	6	20	
1,2,4-Trichlorobenzene	23.8	1.0	ug/l	25.0		95	70-130	3	20	
1,1,1-Trichloroethane	25.3	0.50	ug/l	25.0		101	70-130	3	20	
1,1,2-Trichloroethane	25.2	0.50	ug/l	25.0		101	70-130	4	20	
Trichloroethene	23.8	0.50	ug/l	25.0		95	70-130	0.3	20	
Trichlorofluoromethane	28.6	0.50	ug/l	25.0		114	78-149	3	20	
1,2,3-Trichloropropane	28.1	1.0	ug/l	25.0		112	70-130	0.8	20	
1,2,4-Trimethylbenzene	26.2	0.50	ug/l	25.0		105	70-130	4	20	
1,3,5-Trimethylbenzene	25.5	0.50	ug/l	25.0		102	70-130	1	20	
Vinyl Acetate	41.7	1.0	ug/l	25.0		167	57-149	1	21	L3
Vinyl chloride	26.3	0.50	ug/l	25.0		105	66-134	4	20	
Xylenes, Total	50.9	1.0	ug/l	50.0		102	70-130	0.7	20	
Surrogate: Dibromofluoromethane	25.6		ug/l	25.0		102	70-130			
Surrogate: Toluene-d8	25.8		ug/l	25.0		103	70-130			
Surrogate: 4-Bromofluorobenzene	27.7		ug/l	25.0		111	70-130			

TestAmerica Phoenix

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0051 Extracted: 03/02/11										
Matrix Spike Analyzed: 03/02/2011 (11C0051-MS1)					Source: PUC0046-03					
Acetone	18.0	10	ug/l	25.0	5.39	50	10-150			
Benzene	25.8	0.50	ug/l	25.0	ND	103	70-130			
Bromobenzene	27.0	0.50	ug/l	25.0	ND	108	70-130			
Bromochloromethane	23.4	0.50	ug/l	25.0	ND	94	70-130			
Bromodichloromethane	27.0	0.50	ug/l	25.0	ND	108	70-130			
Bromoform	23.8	1.0	ug/l	25.0	ND	95	62-126			
Bromomethane	26.2	1.0	ug/l	25.0	ND	105	55-136			
2-Butanone (MEK)	20.1	2.5	ug/l	25.0	ND	80	22-150			
n-Butylbenzene	29.9	0.50	ug/l	25.0	ND	120	70-130			
sec-Butylbenzene	28.4	0.50	ug/l	25.0	ND	114	70-130			
tert-Butylbenzene	28.6	0.50	ug/l	25.0	ND	114	70-130			
Carbon disulfide	30.4	0.50	ug/l	25.0	ND	121	56-132			
Carbon tetrachloride	30.9	0.50	ug/l	25.0	ND	124	76-131			
Chlorobenzene	24.7	0.50	ug/l	25.0	ND	99	70-130			
Chloroethane	28.4	1.0	ug/l	25.0	ND	114	67-134			
Chloroform	25.3	0.50	ug/l	25.0	ND	101	70-130			
Chloromethane	26.5	1.0	ug/l	25.0	ND	106	50-135			
2-Chlorotoluene	27.0	0.50	ug/l	25.0	ND	108	70-130			
4-Chlorotoluene	27.8	0.50	ug/l	25.0	ND	111	70-130			
Dibromochloromethane	23.5	0.50	ug/l	25.0	ND	94	70-130			
1,2-Dibromo-3-chloropropane	25.9	2.5	ug/l	25.0	ND	104	60-135			
1,2-Dibromoethane (EDB)	25.3	0.50	ug/l	25.0	ND	101	70-130			
Dibromomethane	27.1	0.50	ug/l	25.0	ND	108	70-130			
1,2-Dichlorobenzene	26.7	0.50	ug/l	25.0	ND	107	70-130			
1,3-Dichlorobenzene	26.7	0.50	ug/l	25.0	ND	107	70-130			
1,4-Dichlorobenzene	26.4	0.50	ug/l	25.0	ND	106	70-130			
Dichlorodifluoromethane	36.9	0.50	ug/l	25.0	ND	147	36-150			
1,1-Dichloroethane	26.1	0.50	ug/l	25.0	ND	104	70-130			
1,2-Dichloroethane	25.8	0.50	ug/l	25.0	ND	103	68-143			
1,1-Dichloroethene	25.7	0.50	ug/l	25.0	ND	103	70-130			
cis-1,2-Dichloroethene	23.8	0.50	ug/l	25.0	ND	95	70-130			
trans-1,2-Dichloroethene	26.7	0.50	ug/l	25.0	ND	107	70-130			
1,2-Dichloropropane	25.2	0.50	ug/l	25.0	ND	101	70-130			
1,3-Dichloropropane	25.1	0.50	ug/l	25.0	ND	100	70-130			
2,2-Dichloropropane	28.2	1.0	ug/l	25.0	ND	113	66-130			

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VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0051 Extracted: 03/02/11										
Matrix Spike Analyzed: 03/02/2011 (11C0051-MS1)					Source: PUC0046-03					
1,1-Dichloropropene	28.6	0.50	ug/l	25.0	ND	115	70-130			
cis-1,3-Dichloropropene	26.3	0.50	ug/l	25.0	ND	105	70-130			
trans-1,3-Dichloropropene	23.8	0.50	ug/l	25.0	ND	95	71-132			
Ethylbenzene	26.2	0.50	ug/l	25.0	ND	105	70-130			
Hexachlorobutadiene	29.8	1.0	ug/l	25.0	ND	119	66-129			
2-Hexanone	22.6	2.5	ug/l	25.0	ND	91	18-150			
Iodomethane	26.9	2.5	ug/l	25.0	ND	107	47-141			
Isopropylbenzene	32.0	0.50	ug/l	25.0	ND	128	78-137			
p-Isopropyltoluene	30.1	0.50	ug/l	25.0	ND	120	70-130			
Methylene Chloride	22.4	1.0	ug/l	25.0	ND	89	74-132			
4-Methyl-2-pentanone (MIBK)	30.1	2.5	ug/l	25.0	ND	120	56-145			
Methyl-tert-butyl Ether (MTBE)	24.6	0.50	ug/l	25.0	ND	98	67-138			
Naphthalene	24.8	2.5	ug/l	25.0	ND	99	54-135			
n-Propylbenzene	29.8	0.50	ug/l	25.0	ND	119	70-130			
Styrene	23.0	0.50	ug/l	25.0	ND	92	51-123			
1,1,1,2-Tetrachloroethane	25.9	0.50	ug/l	25.0	ND	103	70-130			
1,1,2,2-Tetrachloroethane	27.9	0.50	ug/l	25.0	ND	112	69-133			
Tetrachloroethene	27.7	0.50	ug/l	25.0	ND	111	70-130			
Toluene	26.0	0.50	ug/l	25.0	ND	104	70-130			
1,2,3-Trichlorobenzene	28.6	1.0	ug/l	25.0	ND	114	70-130			
1,2,4-Trichlorobenzene	25.6	1.0	ug/l	25.0	ND	102	66-126			
1,1,1-Trichloroethane	29.0	0.50	ug/l	25.0	ND	116	76-132			
1,1,2-Trichloroethane	27.1	0.50	ug/l	25.0	ND	108	70-130			
Trichloroethene	27.0	0.50	ug/l	25.0	ND	108	70-130			
Trichlorofluoromethane	35.2	0.50	ug/l	25.0	ND	141	74-150			
1,2,3-Trichloropropane	28.5	1.0	ug/l	25.0	ND	114	70-130			
1,2,4-Trimethylbenzene	29.1	0.50	ug/l	25.0	ND	116	70-130			
1,3,5-Trimethylbenzene	28.8	0.50	ug/l	25.0	ND	115	61-138			
Vinyl Acetate	40.9	1.0	ug/l	25.0	ND	164	50-150			NI
Vinyl chloride	28.5	0.50	ug/l	25.0	ND	114	58-139			
Xylenes, Total	51.9	1.0	ug/l	50.0	ND	104	70-130			
Surrogate: Dibromofluoromethane	25.9		ug/l	25.0		104	70-130			
Surrogate: Toluene-d8	26.5		ug/l	25.0		106	70-130			
Surrogate: 4-Bromofluorobenzene	27.9		ug/l	25.0		111	70-130			

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VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0051 Extracted: 03/02/11										
Matrix Spike Dup Analyzed: 03/02/2011 (11C0051-MSD1)					Source: PUC0046-03					
Acetone	17.1	10	ug/l	25.0	5.39	47	10-150	5	35	
Benzene	26.1	0.50	ug/l	25.0	ND	104	70-130	0.9	20	
Bromobenzene	26.3	0.50	ug/l	25.0	ND	105	70-130	2	20	
Bromochloromethane	25.2	0.50	ug/l	25.0	ND	101	70-130	7	20	
Bromodichloromethane	27.3	0.50	ug/l	25.0	ND	109	70-130	1	20	
Bromoform	23.6	1.0	ug/l	25.0	ND	95	62-126	0.8	20	
Bromomethane	26.7	1.0	ug/l	25.0	ND	107	55-136	2	24	
2-Butanone (MEK)	20.4	2.5	ug/l	25.0	ND	81	22-150	1	31	
n-Butylbenzene	30.2	0.50	ug/l	25.0	ND	121	70-130	1	20	
sec-Butylbenzene	27.8	0.50	ug/l	25.0	ND	111	70-130	2	20	
tert-Butylbenzene	27.1	0.50	ug/l	25.0	ND	109	70-130	5	20	
Carbon disulfide	28.6	0.50	ug/l	25.0	ND	114	56-132	6	20	
Carbon tetrachloride	30.0	0.50	ug/l	25.0	ND	120	76-131	3	20	
Chlorobenzene	25.4	0.50	ug/l	25.0	ND	102	70-130	3	20	
Chloroethane	27.7	1.0	ug/l	25.0	ND	111	67-134	2	20	
Chloroform	26.0	0.50	ug/l	25.0	ND	104	70-130	3	20	
Chloromethane	27.6	1.0	ug/l	25.0	ND	110	50-135	4	20	
2-Chlorotoluene	25.3	0.50	ug/l	25.0	ND	101	70-130	6	20	
4-Chlorotoluene	27.5	0.50	ug/l	25.0	ND	110	70-130	1	20	
Dibromochloromethane	25.0	0.50	ug/l	25.0	ND	100	70-130	6	20	
1,2-Dibromo-3-chloropropane	26.7	2.5	ug/l	25.0	ND	107	60-135	3	29	
1,2-Dibromoethane (EDB)	26.2	0.50	ug/l	25.0	ND	105	70-130	3	20	
Dibromomethane	27.2	0.50	ug/l	25.0	ND	109	70-130	0.3	20	
1,2-Dichlorobenzene	26.4	0.50	ug/l	25.0	ND	106	70-130	1	20	
1,3-Dichlorobenzene	27.5	0.50	ug/l	25.0	ND	110	70-130	3	20	
1,4-Dichlorobenzene	26.2	0.50	ug/l	25.0	ND	105	70-130	1	20	
Dichlorodifluoromethane	36.5	0.50	ug/l	25.0	ND	146	36-150	0.9	22	
1,1-Dichloroethane	25.4	0.50	ug/l	25.0	ND	102	70-130	3	20	
1,2-Dichloroethane	25.9	0.50	ug/l	25.0	ND	104	68-143	0.3	20	
1,1-Dichloroethene	26.0	0.50	ug/l	25.0	ND	104	70-130	1	20	
cis-1,2-Dichloroethene	24.9	0.50	ug/l	25.0	ND	100	70-130	4	20	
trans-1,2-Dichloroethene	26.7	0.50	ug/l	25.0	ND	107	70-130	0.2	20	
1,2-Dichloropropane	27.1	0.50	ug/l	25.0	ND	108	70-130	7	20	
1,3-Dichloropropane	26.5	0.50	ug/l	25.0	ND	106	70-130	6	20	
2,2-Dichloropropane	26.4	1.0	ug/l	25.0	ND	106	66-130	7	20	

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018
Report Number: PUB1675

Sampled: 02/28/11
Received: 02/28/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0051 Extracted: 03/02/11										
Matrix Spike Dup Analyzed: 03/02/2011 (11C0051-MSD1)					Source: PUC0046-03					
1,1-Dichloropropene	27.0	0.50	ug/l	25.0	ND	108	70-130	6	20	
cis-1,3-Dichloropropene	26.4	0.50	ug/l	25.0	ND	106	70-130	0.3	20	
trans-1,3-Dichloropropene	24.2	0.50	ug/l	25.0	ND	97	71-132	2	20	
Ethylbenzene	26.7	0.50	ug/l	25.0	ND	107	70-130	2	20	
Hexachlorobutadiene	27.1	1.0	ug/l	25.0	ND	108	66-129	9	21	
2-Hexanone	23.1	2.5	ug/l	25.0	ND	92	18-150	2	25	
Iodomethane	26.7	2.5	ug/l	25.0	ND	107	47-141	0.7	29	
Isopropylbenzene	29.7	0.50	ug/l	25.0	ND	119	78-137	7	20	
p-Isopropyltoluene	28.6	0.50	ug/l	25.0	ND	115	70-130	5	30	
Methylene Chloride	23.0	1.0	ug/l	25.0	ND	92	74-132	3	20	
4-Methyl-2-pentanone (MIBK)	29.4	2.5	ug/l	25.0	ND	117	56-145	2	26	
Methyl-tert-butyl Ether (MTBE)	25.2	0.50	ug/l	25.0	ND	101	67-138	3	21	
Naphthalene	23.9	2.5	ug/l	25.0	ND	96	54-135	4	33	
n-Propylbenzene	28.0	0.50	ug/l	25.0	ND	112	70-130	6	20	
Styrene	23.2	0.50	ug/l	25.0	ND	93	51-123	0.8	21	
1,1,1,2-Tetrachloroethane	26.9	0.50	ug/l	25.0	ND	107	70-130	4	20	
1,1,2,2-Tetrachloroethane	27.8	0.50	ug/l	25.0	ND	111	69-133	0.2	20	
Tetrachloroethene	28.1	0.50	ug/l	25.0	ND	112	70-130	1	20	
Toluene	26.1	0.50	ug/l	25.0	ND	104	70-130	0.3	20	
1,2,3-Trichlorobenzene	28.2	1.0	ug/l	25.0	ND	113	70-130	1	20	
1,2,4-Trichlorobenzene	25.5	1.0	ug/l	25.0	ND	102	66-126	0.3	20	
1,1,1-Trichloroethane	28.0	0.50	ug/l	25.0	ND	112	76-132	3	20	
1,1,2-Trichloroethane	26.6	0.50	ug/l	25.0	ND	106	70-130	2	20	
Trichloroethene	27.2	0.50	ug/l	25.0	ND	109	70-130	0.6	20	
Trichlorofluoromethane	33.0	0.50	ug/l	25.0	ND	132	74-150	7	20	
1,2,3-Trichloropropane	27.4	1.0	ug/l	25.0	ND	110	70-130	4	20	
1,2,4-Trimethylbenzene	28.0	0.50	ug/l	25.0	ND	112	70-130	4	20	
1,3,5-Trimethylbenzene	27.3	0.50	ug/l	25.0	ND	109	61-138	5	33	
Vinyl Acetate	40.6	1.0	ug/l	25.0	ND	162	50-150	0.7	23	NI
Vinyl chloride	28.7	0.50	ug/l	25.0	ND	115	58-139	0.6	21	
Xylenes, Total	54.5	1.0	ug/l	50.0	ND	109	70-130	5	20	
Surrogate: Dibromofluoromethane	26.6		ug/l	25.0		107	70-130			
Surrogate: Toluene-d8	27.1		ug/l	25.0		108	70-130			
Surrogate: 4-Bromofluorobenzene	28.9		ug/l	25.0		115	70-130			

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1675

Sampled: 02/28/11

Received: 02/28/11

METHOD BLANK/QC DATA

1,4-DIOXANE BY GC/MS (EPA 5030B/8260B-SIM)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0032 Extracted: 03/02/11										
Blank Analyzed: 03/02/2011 (11C0032-BLK1)										
1,4-Dioxane	ND	1.0	ug/l							
Surrogate: Dibromofluoromethane	1.02		ug/l	1.00		102	70-140			
LCS Analyzed: 03/02/2011 (11C0032-BS1)										
1,4-Dioxane	9.66	1.0	ug/l	10.0		97	70-130			
Surrogate: Dibromofluoromethane	1.00		ug/l	1.00		100	70-140			
LCS Dup Analyzed: 03/02/2011 (11C0032-BSD1)										
1,4-Dioxane	9.98	1.0	ug/l	10.0		100	70-130	3	20	
Surrogate: Dibromofluoromethane	0.910		ug/l	1.00		91	70-140			
Matrix Spike Analyzed: 03/02/2011 (11C0032-MS1) Source: PUB1458-19										
1,4-Dioxane	20.6	1.0	ug/l	10.0	10.1	105	45-150			
Surrogate: Dibromofluoromethane	1.11		ug/l	1.00		111	70-140			
Matrix Spike Dup Analyzed: 03/02/2011 (11C0032-MSD1) Source: PUB1458-19										
1,4-Dioxane	20.2	1.0	ug/l	10.0	10.1	101	45-150	2	35	
Surrogate: Dibromofluoromethane	0.950		ug/l	1.00		95	70-140			

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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PUB1675 <Page 20 of 26>

ARCADIS U.S., Inc. - Phoenix
 4646 E Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO/3994018
 Report Number: PUB1675

Sampled: 02/28/11
 Received: 02/28/11

METHOD BLANK/QC DATA

TOTAL METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 11C0056 Extracted: 03/02/11										
Blank Analyzed: 03/03/2011 (11C0056-BLK1)										
Mercury	ND	0.00020	mg/l							
LCS Analyzed: 03/03/2011 (11C0056-BS1)										
Mercury	0.00980	0.00020	mg/l	0.0100		98	85-115			
LCS Dup Analyzed: 03/03/2011 (11C0056-BSD1)										
Mercury	0.00987	0.00020	mg/l	0.0100		99	85-115	0.7	20	
Matrix Spike Analyzed: 03/03/2011 (11C0056-MS1)										
Mercury	0.00980	0.00020	mg/l	0.0100	ND	98	70-130			
Matrix Spike Analyzed: 03/03/2011 (11C0056-MS2)										
Mercury	0.00998	0.00020	mg/l	0.0100	ND	100	70-130			
Matrix Spike Dup Analyzed: 03/03/2011 (11C0056-MSD1)										
Mercury	0.00983	0.00020	mg/l	0.0100	ND	98	70-130	0.4	20	
Matrix Spike Dup Analyzed: 03/03/2011 (11C0056-MSD2)										
Mercury	0.00940	0.00020	mg/l	0.0100	ND	94	70-130	6	20	

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ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018
Report Number: PUB1675

Sampled: 02/28/11
Received: 02/28/11

METHOD BLANK/QC DATA

TOTAL METALS BY ICP/MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11B1017 Extracted: 02/28/11										
Blank Analyzed: 03/02/2011-03/03/2011 (11B1017-BLK1)										
Arsenic	ND	0.0010	mg/l							
Barium	ND	0.0010	mg/l							
Cadmium	ND	0.0010	mg/l							
Chromium	ND	0.0010	mg/l							
Lead	ND	0.0010	mg/l							
Selenium	ND	0.0020	mg/l							
Silver	ND	0.0010	mg/l							
LCS Analyzed: 03/02/2011-03/03/2011 (11B1017-BS1)										
Arsenic	0.102	0.0010	mg/l	0.100		102	85-115			
Barium	0.0995	0.0010	mg/l	0.100		99	85-115			
Cadmium	0.101	0.0010	mg/l	0.100		101	85-115			
Chromium	0.103	0.0010	mg/l	0.100		103	85-115			
Lead	0.104	0.0010	mg/l	0.100		104	85-115			
Selenium	0.104	0.0020	mg/l	0.100		104	85-115			
Silver	0.104	0.0010	mg/l	0.100		104	85-115			
LCS Dup Analyzed: 03/02/2011-03/03/2011 (11B1017-BSD1)										
Arsenic	0.102	0.0010	mg/l	0.100		102	85-115	0.2	20	
Barium	0.0997	0.0010	mg/l	0.100		100	85-115	0.3	20	
Cadmium	0.100	0.0010	mg/l	0.100		100	85-115	0.7	20	
Chromium	0.103	0.0010	mg/l	0.100		103	85-115	0.3	20	
Lead	0.103	0.0010	mg/l	0.100		103	85-115	0.6	20	
Selenium	0.104	0.0020	mg/l	0.100		104	85-115	0.5	20	
Silver	0.104	0.0010	mg/l	0.100		104	85-115	0.01	20	
Matrix Spike Analyzed: 03/02/2011-03/03/2011 (11B1017-MS1)										
					Source: PUB1627-01					
Arsenic	0.113	0.0010	mg/l	0.100	0.0100	103	70-130			
Barium	0.248	0.0010	mg/l	0.100	0.144	104	70-130			
Cadmium	0.0954	0.0010	mg/l	0.100	0.000595	95	70-130			
Chromium	0.114	0.0010	mg/l	0.100	0.0118	102	70-130			
Lead	0.101	0.0010	mg/l	0.100	0.00553	95	70-130			
Selenium	0.108	0.0020	mg/l	0.100	0.00318	105	70-130			
Silver	0.0373	0.0010	mg/l	0.100	ND	37	70-130			M2

TestAmerica Phoenix

Carlene McCutcheon
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Attention: Gregory Guimond

Project ID: UPCO/3994018
Report Number: PUB1675

Sampled: 02/28/11
Received: 02/28/11

METHOD BLANK/QC DATA

TOTAL METALS BY ICP/MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11B1017 Extracted: 02/28/11										
Matrix Spike Analyzed: 03/02/2011-03/03/2011 (11B1017-MS2)					Source: PUB1627-02					
Arsenic	0.112	0.0010	mg/l	0.100	0.00855	103	70-130			
Barium	0.231	0.0010	mg/l	0.100	0.127	104	70-130			
Cadmium	0.0947	0.0010	mg/l	0.100	0.000430	94	70-130			
Chromium	0.112	0.0010	mg/l	0.100	0.0105	102	70-130			
Lead	0.0997	0.0010	mg/l	0.100	0.00520	95	70-130			
Selenium	0.108	0.0020	mg/l	0.100	0.00341	105	70-130			
Silver	0.0409	0.0010	mg/l	0.100	ND	41	70-130			M2
Matrix Spike Dup Analyzed: 03/02/2011-03/03/2011 (11B1017-MSD1)					Source: PUB1627-01					
Arsenic	0.113	0.0010	mg/l	0.100	0.0100	103	70-130	0.5	15	
Barium	0.245	0.0010	mg/l	0.100	0.144	101	70-130	1	15	
Cadmium	0.0956	0.0010	mg/l	0.100	0.000595	95	70-130	0.1	15	
Chromium	0.112	0.0010	mg/l	0.100	0.0118	100	70-130	2	15	
Lead	0.100	0.0010	mg/l	0.100	0.00553	95	70-130	0.5	15	
Selenium	0.105	0.0020	mg/l	0.100	0.00318	102	70-130	2	15	
Silver	0.0397	0.0010	mg/l	0.100	ND	40	70-130	6	15	M2
Matrix Spike Dup Analyzed: 03/02/2011-03/03/2011 (11B1017-MSD2)					Source: PUB1627-02					
Arsenic	0.112	0.0010	mg/l	0.100	0.00855	103	70-130	0.07	15	
Barium	0.229	0.0010	mg/l	0.100	0.127	102	70-130	0.7	15	
Cadmium	0.0961	0.0010	mg/l	0.100	0.000430	96	70-130	1	15	
Chromium	0.114	0.0010	mg/l	0.100	0.0105	103	70-130	1	15	
Lead	0.100	0.0010	mg/l	0.100	0.00520	95	70-130	0.5	15	
Selenium	0.107	0.0020	mg/l	0.100	0.00341	104	70-130	0.9	15	
Silver	0.0424	0.0010	mg/l	0.100	ND	42	70-130	4	15	M2

TestAmerica Phoenix

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Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018
Report Number: PUB1675

Sampled: 02/28/11
Received: 02/28/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0081 Extracted: 03/02/11										
Blank Analyzed: 03/02/2011 (11C0081-BLK1)										
Perchlorate	ND	2.0	ug/l							
LCS Analyzed: 03/02/2011 (11C0081-BS1)										
Perchlorate	24.4	NA	ug/l	25.0		98	85-115			
LCS Dup Analyzed: 03/02/2011 (11C0081-BSD1)										
Perchlorate	24.8	NA	ug/l	25.0		99	85-115	2	15	
Duplicate Analyzed: 03/02/2011 (11C0081-DUP1)										
Perchlorate	80.4	10	ug/l		78.7			2	15	Source: PUB1599-30RE1
Duplicate Analyzed: 03/02/2011 (11C0081-DUP2)										
Perchlorate	ND	2.0	ug/l		ND				15	Source: PUB1610-01
Matrix Spike Analyzed: 03/02/2011 (11C0081-MS1)										
Perchlorate	24.4	2.0	ug/l	25.0	0.824	94	80-120			Source: PUB1609-01
Matrix Spike Analyzed: 03/02/2011 (11C0081-MS2)										
Perchlorate	23.2	2.0	ug/l	25.0	0.914	89	80-120			Source: PUB1611-01
Matrix Spike Dup Analyzed: 03/02/2011 (11C0081-MSD1)										
Perchlorate	23.8	2.0	ug/l	25.0	0.824	92	80-120	3	15	Source: PUB1609-01
Matrix Spike Dup Analyzed: 03/02/2011 (11C0081-MSD2)										
Perchlorate	23.7	2.0	ug/l	25.0	0.914	91	80-120	2	15	Source: PUB1611-01

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Carlene McCutcheon
Project Manager

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PUB1675 <Page 24 of 26>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1675

Sampled: 02/28/11
Received: 02/28/11

DATA QUALIFIERS AND DEFINITIONS

- L3** The associated blank spike recovery was above method acceptance limits.
- M2** Matrix spike recovery was low; the associated blank spike recovery was acceptable.
- N1** See case narrative.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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PUB1675 <Page 25 of 26>

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Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1675

Sampled: 02/28/11

Received: 02/28/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
E200.8	Water		X
E245.1	Water		X
EPA 314.0	Water		X
EPA 8260B-SIM	Water		X
EPA 8260B	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

TAL-0013-550 (10/10)

- [] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
- [] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
- [] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Client Name/Address: Malcolm Pirnie Inc 4646 E Van Buren St Ste 400 Phoenix AZ 85008	Project/PO Number: UPCO/3994018	Analysis Required
---	------------------------------------	-------------------

Project Manager: Greg Guarnard	Phone Number: 602-214-1770	314 perchlorate 200% MSB, Cd, Cu, Se 245.1 NA 8620B VOCs 8620B - SIMS 1,4-dioxane
Sampler: Brian Brochman	Fax Number: 602-231-0131	

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives						Special Instructions
TB022811-1	Lab K2O	VOL	1	-	-	NAI			X			PUB 1675-61
TB022811-2	Lab K2O	VOL	1	-	-	NAI				X		-02
MW-11	GW	500ml POLY	1	2/28/11	15:10	None	X					-03
MW-11	GW	500ml POLY	1	2/28/11	15:10	KNO3		X	X			
MW-11	GW	VOL	6	2/28/11	15:10	NAI			X	X		
BB												

Relinquished By: <i>[Signature]</i>	Date/Time: 2/28/11 17:20	Received By: <i>[Signature]</i>	Date/Time:	Turnaround Time: (Check)
Relinquished By:	Date/Time:	Received By:	Date/Time:	same day _____ 72 hours _____
Relinquished By:	Date/Time:	Received in Lab By: <i>[Signature]</i>	Date/Time: 2/28/11 17:20	24 hours _____ 5 days _____
Relinquished By:	Date/Time:			48 hours _____ normal <input checked="" type="checkbox"/>
Relinquished By:	Date/Time:			Sample Integrity: (Check)
				intact <input checked="" type="checkbox"/> on ice <input checked="" type="checkbox"/> x 2-100

Note: By relinquishing samples to TestAmerica, 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.

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO/3994018

Sampled: 03/01/11
Received: 03/01/11
Issued: 03/16/11 17:19

NELAP #01109CA Arizona DHS#AZ0728

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.
This entire report was reviewed and approved for release.*

CASE NARRATIVE

LABORATORY ID

PUC0073-01
PUC0073-02
PUC0073-03
PUC0073-04
PUC0073-05
PUC0073-06
PUC0073-07

CLIENT ID

TB030111-1
TB030111-2
MW-14
MW-15
MW-8
MW-9
MW-12

MATRIX

Water
Water
Water
Water
Water
Water
Water

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC0073

Sampled: 03/01/11

Received: 03/01/11

SAMPLE RECEIPT: Samples were received intact, at 1°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

L3 EPA 8260B:Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.

N1 EPA 8260B:The Laboratory Control Sample / Laboratory Control Sample Duplicate as well as the Matrix Spike / Matrix Spike Duplicate recovered high and outside of acceptance limits for Vinyl acetate. All associated samples are non-detect for this compound and therefore should not be impacted.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:



TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC0073

Sampled: 03/01/11

Received: 03/01/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC0073-01 (TB030111-1 - Water)				Sampled: 03/01/11				
Reporting Units: ug/l								
Acetone	EPA 8260B	11C0051	10	ND	1	3/2/2011	3/2/2011	
Benzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Bromobenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Bromochloromethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Bromodichloromethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Bromoform	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
Bromomethane	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
2-Butanone (MEK)	EPA 8260B	11C0051	2.5	ND	1	3/2/2011	3/2/2011	
n-Butylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
sec-Butylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
tert-Butylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Carbon disulfide	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Carbon tetrachloride	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Chlorobenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Chloroethane	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
Chloroform	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Chloromethane	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
2-Chlorotoluene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
4-Chlorotoluene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Dibromochloromethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11C0051	2.5	ND	1	3/2/2011	3/2/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Dibromomethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,2-Dichlorobenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,3-Dichlorobenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,4-Dichlorobenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Dichlorodifluoromethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,1-Dichloroethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,2-Dichloroethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,1-Dichloroethene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
cis-1,2-Dichloroethene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
trans-1,2-Dichloroethene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,2-Dichloropropane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,3-Dichloropropane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
2,2-Dichloropropane	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
1,1-Dichloropropene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
cis-1,3-Dichloropropene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
trans-1,3-Dichloropropene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Ethylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Hexachlorobutadiene	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC0073

Sampled: 03/01/11

Received: 03/01/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC0073-01 (TB030111-1 - Water) - cont.				Sampled: 03/01/11				
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11C0051	2.5	ND	1	3/2/2011	3/2/2011	
Iodomethane	EPA 8260B	11C0051	2.5	ND	1	3/2/2011	3/2/2011	
Isopropylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
p-Isopropyltoluene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Methylene Chloride	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11C0051	2.5	ND	1	3/2/2011	3/2/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Naphthalene	EPA 8260B	11C0051	2.5	ND	1	3/2/2011	3/2/2011	
n-Propylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Styrene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Tetrachloroethene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Toluene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
1,1,1-Trichloroethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,1,2-Trichloroethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Trichloroethene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Trichlorofluoromethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,2,3-Trichloropropane	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Vinyl Acetate	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	L3
Vinyl chloride	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Xylenes, Total	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
Surrogate: Dibromofluoromethane (80-130%)								117 %
Surrogate: Toluene-d8 (80-120%)								103 %
Surrogate: 4-Bromofluorobenzene (80-125%)								106 %

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Carlene McCutcheon
Project Manager

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PUC0073 <Page 4 of 47>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC0073

Sampled: 03/01/11
Received: 03/01/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC0073-03 (MW-14 - Water)				Sampled: 03/01/11				
Reporting Units: ug/l								
Acetone	EPA 8260B	11C0051	10	ND	1	3/2/2011	3/2/2011	
Benzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Bromobenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Bromochloromethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Bromodichloromethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Bromoform	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
Bromomethane	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
2-Butanone (MEK)	EPA 8260B	11C0051	2.5	ND	1	3/2/2011	3/2/2011	
n-Butylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
sec-Butylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
tert-Butylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Carbon disulfide	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Carbon tetrachloride	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Chlorobenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Chloroethane	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
Chloroform	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Chloromethane	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
2-Chlorotoluene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
4-Chlorotoluene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Dibromochloromethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11C0051	2.5	ND	1	3/2/2011	3/2/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Dibromomethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,2-Dichlorobenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,3-Dichlorobenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,4-Dichlorobenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Dichlorodifluoromethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,1-Dichloroethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,2-Dichloroethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,1-Dichloroethene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
cis-1,2-Dichloroethene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
trans-1,2-Dichloroethene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,2-Dichloropropane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,3-Dichloropropane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
2,2-Dichloropropane	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
1,1-Dichloropropene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
cis-1,3-Dichloropropene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
trans-1,3-Dichloropropene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Ethylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Hexachlorobutadiene	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC0073

Sampled: 03/01/11

Received: 03/01/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC0073-03 (MW-14 - Water) - cont.				Sampled: 03/01/11				
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11C0051	2.5	ND	1	3/2/2011	3/2/2011	
Iodomethane	EPA 8260B	11C0051	2.5	ND	1	3/2/2011	3/2/2011	
Isopropylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
p-Isopropyltoluene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Methylene Chloride	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11C0051	2.5	ND	1	3/2/2011	3/2/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Naphthalene	EPA 8260B	11C0051	2.5	ND	1	3/2/2011	3/2/2011	
n-Propylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Styrene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Tetrachloroethene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Toluene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
1,1,1-Trichloroethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,1,2-Trichloroethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Trichloroethene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Trichlorofluoromethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,2,3-Trichloropropane	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Vinyl Acetate	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	L3
Vinyl chloride	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Xylenes, Total	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
Surrogate: Dibromofluoromethane (80-130%)								124 %
Surrogate: Toluene-d8 (80-120%)								103 %
Surrogate: 4-Bromofluorobenzene (80-125%)								106 %

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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PUC0073 <Page 6 of 47>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC0073

Sampled: 03/01/11

Received: 03/01/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC0073-04 (MW-15 - Water)				Sampled: 03/01/11				
Reporting Units: ug/l								
Acetone	EPA 8260B	11C0051	10	ND	1	3/2/2011	3/2/2011	
Benzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Bromobenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Bromochloromethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Bromodichloromethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Bromoform	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
Bromomethane	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
2-Butanone (MEK)	EPA 8260B	11C0051	2.5	ND	1	3/2/2011	3/2/2011	
n-Butylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
sec-Butylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
tert-Butylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Carbon disulfide	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Carbon tetrachloride	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Chlorobenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Chloroethane	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
Chloroform	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Chloromethane	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
2-Chlorotoluene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
4-Chlorotoluene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Dibromochloromethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11C0051	2.5	ND	1	3/2/2011	3/2/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Dibromomethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,2-Dichlorobenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,3-Dichlorobenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,4-Dichlorobenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Dichlorodifluoromethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,1-Dichloroethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,2-Dichloroethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,1-Dichloroethene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
cis-1,2-Dichloroethene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
trans-1,2-Dichloroethene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,2-Dichloropropane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,3-Dichloropropane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
2,2-Dichloropropane	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
1,1-Dichloropropene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
cis-1,3-Dichloropropene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
trans-1,3-Dichloropropene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Ethylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Hexachlorobutadiene	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC0073

Sampled: 03/01/11

Received: 03/01/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC0073-04 (MW-15 - Water) - cont.				Sampled: 03/01/11				
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11C0051	2.5	ND	1	3/2/2011	3/2/2011	
Iodomethane	EPA 8260B	11C0051	2.5	ND	1	3/2/2011	3/2/2011	
Isopropylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
p-Isopropyltoluene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Methylene Chloride	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11C0051	2.5	ND	1	3/2/2011	3/2/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Naphthalene	EPA 8260B	11C0051	2.5	ND	1	3/2/2011	3/2/2011	
n-Propylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Styrene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Tetrachloroethene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Toluene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
1,1,1-Trichloroethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,1,2-Trichloroethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Trichloroethene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Trichlorofluoromethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,2,3-Trichloropropane	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Vinyl Acetate	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	L3
Vinyl chloride	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Xylenes, Total	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
Surrogate: Dibromofluoromethane (80-130%)								124 %
Surrogate: Toluene-d8 (80-120%)								108 %
Surrogate: 4-Bromofluorobenzene (80-125%)								102 %

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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PUC0073 <Page 8 of 47>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC0073

Sampled: 03/01/11

Received: 03/01/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC0073-05 (MW-8 - Water)				Sampled: 03/01/11				
Reporting Units: ug/l								
Acetone	EPA 8260B	11C0051	10	ND	1	3/2/2011	3/2/2011	
Benzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Bromobenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Bromochloromethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Bromodichloromethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Bromoform	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
Bromomethane	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
2-Butanone (MEK)	EPA 8260B	11C0051	2.5	ND	1	3/2/2011	3/2/2011	
n-Butylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
sec-Butylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
tert-Butylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Carbon disulfide	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Carbon tetrachloride	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Chlorobenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Chloroethane	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
Chloroform	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Chloromethane	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
2-Chlorotoluene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
4-Chlorotoluene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Dibromochloromethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11C0051	2.5	ND	1	3/2/2011	3/2/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Dibromomethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,2-Dichlorobenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,3-Dichlorobenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,4-Dichlorobenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Dichlorodifluoromethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,1-Dichloroethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,2-Dichloroethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,1-Dichloroethene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
cis-1,2-Dichloroethene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
trans-1,2-Dichloroethene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,2-Dichloropropane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,3-Dichloropropane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
2,2-Dichloropropane	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
1,1-Dichloropropene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
cis-1,3-Dichloropropene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
trans-1,3-Dichloropropene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Ethylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Hexachlorobutadiene	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC0073

Sampled: 03/01/11

Received: 03/01/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC0073-05 (MW-8 - Water) - cont.				Sampled: 03/01/11				
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11C0051	2.5	ND	1	3/2/2011	3/2/2011	
Iodomethane	EPA 8260B	11C0051	2.5	ND	1	3/2/2011	3/2/2011	
Isopropylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
p-Isopropyltoluene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Methylene Chloride	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11C0051	2.5	ND	1	3/2/2011	3/2/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Naphthalene	EPA 8260B	11C0051	2.5	ND	1	3/2/2011	3/2/2011	
n-Propylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Styrene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Tetrachloroethene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Toluene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
1,1,1-Trichloroethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,1,2-Trichloroethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Trichloroethene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Trichlorofluoromethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,2,3-Trichloropropane	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Vinyl Acetate	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	L3
Vinyl chloride	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Xylenes, Total	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
Surrogate: Dibromofluoromethane (80-130%)								124 %
Surrogate: Toluene-d8 (80-120%)								100 %
Surrogate: 4-Bromofluorobenzene (80-125%)								101 %

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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PUC0073 <Page 10 of 47>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC0073

Sampled: 03/01/11
Received: 03/01/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC0073-06RE1 (MW-9 - Water)				Sampled: 03/01/11				
Reporting Units: ug/l								
Acetone	EPA 8260B	11C0246	10	ND	1	3/2/2011	3/7/2011	
Benzene	EPA 8260B	11C0246	0.50	ND	1	3/2/2011	3/7/2011	
Bromobenzene	EPA 8260B	11C0246	0.50	ND	1	3/2/2011	3/7/2011	
Bromochloromethane	EPA 8260B	11C0246	0.50	ND	1	3/2/2011	3/7/2011	
Bromodichloromethane	EPA 8260B	11C0246	0.50	ND	1	3/2/2011	3/7/2011	
Bromoform	EPA 8260B	11C0246	1.0	ND	1	3/2/2011	3/7/2011	
Bromomethane	EPA 8260B	11C0246	1.0	ND	1	3/2/2011	3/7/2011	
2-Butanone (MEK)	EPA 8260B	11C0246	2.5	ND	1	3/2/2011	3/7/2011	
n-Butylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/2/2011	3/7/2011	
sec-Butylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/2/2011	3/7/2011	
tert-Butylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/2/2011	3/7/2011	
Carbon disulfide	EPA 8260B	11C0246	0.50	ND	1	3/2/2011	3/7/2011	
Carbon tetrachloride	EPA 8260B	11C0246	0.50	ND	1	3/2/2011	3/7/2011	
Chlorobenzene	EPA 8260B	11C0246	0.50	ND	1	3/2/2011	3/7/2011	
Chloroethane	EPA 8260B	11C0246	1.0	ND	1	3/2/2011	3/7/2011	
Chloroform	EPA 8260B	11C0246	0.50	ND	1	3/2/2011	3/7/2011	
Chloromethane	EPA 8260B	11C0246	1.0	ND	1	3/2/2011	3/7/2011	
2-Chlorotoluene	EPA 8260B	11C0246	0.50	ND	1	3/2/2011	3/7/2011	
4-Chlorotoluene	EPA 8260B	11C0246	0.50	ND	1	3/2/2011	3/7/2011	
Dibromochloromethane	EPA 8260B	11C0246	0.50	ND	1	3/2/2011	3/7/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11C0246	2.5	ND	1	3/2/2011	3/7/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11C0246	0.50	ND	1	3/2/2011	3/7/2011	
Dibromomethane	EPA 8260B	11C0246	0.50	ND	1	3/2/2011	3/7/2011	
1,2-Dichlorobenzene	EPA 8260B	11C0246	0.50	ND	1	3/2/2011	3/7/2011	
1,3-Dichlorobenzene	EPA 8260B	11C0246	0.50	ND	1	3/2/2011	3/7/2011	
1,4-Dichlorobenzene	EPA 8260B	11C0246	0.50	ND	1	3/2/2011	3/7/2011	
Dichlorodifluoromethane	EPA 8260B	11C0246	0.50	ND	1	3/2/2011	3/7/2011	
1,1-Dichloroethane	EPA 8260B	11C0246	0.50	ND	1	3/2/2011	3/7/2011	
1,2-Dichloroethane	EPA 8260B	11C0246	0.50	ND	1	3/2/2011	3/7/2011	
1,1-Dichloroethene	EPA 8260B	11C0246	0.50	ND	1	3/2/2011	3/7/2011	
cis-1,2-Dichloroethene	EPA 8260B	11C0246	0.50	ND	1	3/2/2011	3/7/2011	
trans-1,2-Dichloroethene	EPA 8260B	11C0246	0.50	ND	1	3/2/2011	3/7/2011	
1,2-Dichloropropane	EPA 8260B	11C0246	0.50	ND	1	3/2/2011	3/7/2011	
1,3-Dichloropropane	EPA 8260B	11C0246	0.50	ND	1	3/2/2011	3/7/2011	
2,2-Dichloropropane	EPA 8260B	11C0246	1.0	ND	1	3/2/2011	3/7/2011	
1,1-Dichloropropene	EPA 8260B	11C0246	0.50	ND	1	3/2/2011	3/7/2011	
cis-1,3-Dichloropropene	EPA 8260B	11C0246	0.50	ND	1	3/2/2011	3/7/2011	
trans-1,3-Dichloropropene	EPA 8260B	11C0246	0.50	ND	1	3/2/2011	3/7/2011	
Ethylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/2/2011	3/7/2011	
Hexachlorobutadiene	EPA 8260B	11C0246	1.0	ND	1	3/2/2011	3/7/2011	

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC0073

Sampled: 03/01/11

Received: 03/01/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC0073-06RE1 (MW-9 - Water) - cont.				Sampled: 03/01/11				
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11C0246	2.5	ND	1	3/2/2011	3/7/2011	
Iodomethane	EPA 8260B	11C0246	2.5	ND	1	3/2/2011	3/7/2011	
Isopropylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/2/2011	3/7/2011	
p-Isopropyltoluene	EPA 8260B	11C0246	0.50	ND	1	3/2/2011	3/7/2011	
Methylene Chloride	EPA 8260B	11C0246	1.0	ND	1	3/2/2011	3/7/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11C0246	2.5	ND	1	3/2/2011	3/7/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11C0246	0.50	ND	1	3/2/2011	3/7/2011	
Naphthalene	EPA 8260B	11C0246	2.5	ND	1	3/2/2011	3/7/2011	
n-Propylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/2/2011	3/7/2011	
Styrene	EPA 8260B	11C0246	0.50	ND	1	3/2/2011	3/7/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11C0246	0.50	ND	1	3/2/2011	3/7/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11C0246	0.50	ND	1	3/2/2011	3/7/2011	
Tetrachloroethene	EPA 8260B	11C0246	0.50	ND	1	3/2/2011	3/7/2011	
Toluene	EPA 8260B	11C0246	0.50	ND	1	3/2/2011	3/7/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11C0246	1.0	ND	1	3/2/2011	3/7/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11C0246	1.0	ND	1	3/2/2011	3/7/2011	
1,1,1-Trichloroethane	EPA 8260B	11C0246	0.50	ND	1	3/2/2011	3/7/2011	
1,1,2-Trichloroethane	EPA 8260B	11C0246	0.50	ND	1	3/2/2011	3/7/2011	
Trichloroethene	EPA 8260B	11C0246	0.50	ND	1	3/2/2011	3/7/2011	
Trichlorofluoromethane	EPA 8260B	11C0246	0.50	ND	1	3/2/2011	3/7/2011	
1,2,3-Trichloropropane	EPA 8260B	11C0246	1.0	ND	1	3/2/2011	3/7/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/2/2011	3/7/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/2/2011	3/7/2011	
Vinyl Acetate	EPA 8260B	11C0246	1.0	ND	1	3/2/2011	3/7/2011	L3
Vinyl chloride	EPA 8260B	11C0246	0.50	ND	1	3/2/2011	3/7/2011	
Xylenes, Total	EPA 8260B	11C0246	1.0	ND	1	3/2/2011	3/7/2011	
Surrogate: Dibromofluoromethane (70-130%)								99 %
Surrogate: Toluene-d8 (70-130%)								105 %
Surrogate: 4-Bromofluorobenzene (70-130%)								100 %

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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PUC0073 <Page 12 of 47>

ARCADIS U.S., Inc. - Phoenix
 4646 E Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC0073

Sampled: 03/01/11
 Received: 03/01/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC0073-07 (MW-12 - Water)				Sampled: 03/01/11				
Reporting Units: ug/l								
Acetone	EPA 8260B	11C0051	10	ND	1	3/2/2011	3/2/2011	
Benzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Bromobenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Bromochloromethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Bromodichloromethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Bromoform	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
Bromomethane	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
2-Butanone (MEK)	EPA 8260B	11C0051	2.5	ND	1	3/2/2011	3/2/2011	
n-Butylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
sec-Butylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
tert-Butylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Carbon disulfide	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Carbon tetrachloride	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Chlorobenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Chloroethane	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
Chloroform	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Chloromethane	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
2-Chlorotoluene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
4-Chlorotoluene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Dibromochloromethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11C0051	2.5	ND	1	3/2/2011	3/2/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Dibromomethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,2-Dichlorobenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,3-Dichlorobenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,4-Dichlorobenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Dichlorodifluoromethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,1-Dichloroethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,2-Dichloroethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,1-Dichloroethene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
cis-1,2-Dichloroethene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
trans-1,2-Dichloroethene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,2-Dichloropropane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,3-Dichloropropane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
2,2-Dichloropropane	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
1,1-Dichloropropene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
cis-1,3-Dichloropropene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
trans-1,3-Dichloropropene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Ethylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Hexachlorobutadiene	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	

TestAmerica Phoenix

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Project ID: UPCO/3994018

Report Number: PUC0073

Sampled: 03/01/11
 Received: 03/01/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC0073-07 (MW-12 - Water) - cont.				Sampled: 03/01/11				
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11C0051	2.5	ND	1	3/2/2011	3/2/2011	
Iodomethane	EPA 8260B	11C0051	2.5	ND	1	3/2/2011	3/2/2011	
Isopropylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
p-Isopropyltoluene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Methylene Chloride	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11C0051	2.5	ND	1	3/2/2011	3/2/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Naphthalene	EPA 8260B	11C0051	2.5	ND	1	3/2/2011	3/2/2011	
n-Propylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Styrene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Tetrachloroethene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Toluene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
1,1,1-Trichloroethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,1,2-Trichloroethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Trichloroethene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Trichlorofluoromethane	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,2,3-Trichloropropane	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Vinyl Acetate	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	L3
Vinyl chloride	EPA 8260B	11C0051	0.50	ND	1	3/2/2011	3/2/2011	
Xylenes, Total	EPA 8260B	11C0051	1.0	ND	1	3/2/2011	3/2/2011	
Surrogate: Dibromofluoromethane (80-130%)								126 %
Surrogate: Toluene-d8 (80-120%)								103 %
Surrogate: 4-Bromofluorobenzene (80-125%)								102 %

TestAmerica Phoenix

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Project ID: UPCO/3994018

Report Number: PUC0073

Sampled: 03/01/11
 Received: 03/01/11

1,4-DIOXANE BY GC/MS (EPA 5030B/8260B-SIM)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC0073-02 (TB030111-2 - Water)				Sampled: 03/01/11				
Reporting Units: ug/l								
1,4-Dioxane	EPA 8260B-SIM	11C0032	1.0	ND	1	3/2/2011	3/2/2011	
<i>Surrogate: Dibromofluoromethane (70-140%)</i>				93 %				
Sample ID: PUC0073-03 (MW-14 - Water)				Sampled: 03/01/11				
Reporting Units: ug/l								
1,4-Dioxane	EPA 8260B-SIM	11C0084	1.0	ND	1	3/3/2011	3/3/2011	
<i>Surrogate: Dibromofluoromethane (70-140%)</i>				97 %				
Sample ID: PUC0073-04 (MW-15 - Water)				Sampled: 03/01/11				
Reporting Units: ug/l								
1,4-Dioxane	EPA 8260B-SIM	11C0084	1.0	ND	1	3/3/2011	3/3/2011	
<i>Surrogate: Dibromofluoromethane (70-140%)</i>				92 %				
Sample ID: PUC0073-05 (MW-8 - Water)				Sampled: 03/01/11				
Reporting Units: ug/l								
1,4-Dioxane	EPA 8260B-SIM	11C0084	1.0	ND	1	3/3/2011	3/3/2011	
<i>Surrogate: Dibromofluoromethane (70-140%)</i>				97 %				
Sample ID: PUC0073-06 (MW-9 - Water)				Sampled: 03/01/11				
Reporting Units: ug/l								
1,4-Dioxane	EPA 8260B-SIM	11C0084	1.0	ND	1	3/3/2011	3/3/2011	
<i>Surrogate: Dibromofluoromethane (70-140%)</i>				102 %				
Sample ID: PUC0073-07 (MW-12 - Water)				Sampled: 03/01/11				
Reporting Units: ug/l								
1,4-Dioxane	EPA 8260B-SIM	11C0084	1.0	ND	1	3/3/2011	3/3/2011	
<i>Surrogate: Dibromofluoromethane (70-140%)</i>				103 %				

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Project ID: UPCO/3994018

Report Number: PUC0073

Sampled: 03/01/11

Received: 03/01/11

TOTAL METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC0073-03 (MW-14 - Water)				Sampled: 03/01/11				
Reporting Units: mg/l								
Mercury	E245.1	11C0056	0.00020	ND	1	3/2/2011	3/3/2011	
Sample ID: PUC0073-04 (MW-15 - Water)				Sampled: 03/01/11				
Reporting Units: mg/l								
Mercury	E245.1	11C0056	0.00020	ND	1	3/2/2011	3/3/2011	
Sample ID: PUC0073-05 (MW-8 - Water)				Sampled: 03/01/11				
Reporting Units: mg/l								
Mercury	E245.1	11C0056	0.00020	ND	1	3/2/2011	3/3/2011	
Sample ID: PUC0073-06 (MW-9 - Water)				Sampled: 03/01/11				
Reporting Units: mg/l								
Mercury	E245.1	11C0056	0.00020	ND	1	3/2/2011	3/3/2011	
Sample ID: PUC0073-07 (MW-12 - Water)				Sampled: 03/01/11				
Reporting Units: mg/l								
Mercury	E245.1	11C0056	0.00020	ND	1	3/2/2011	3/3/2011	

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Project ID: UPCO/3994018

Report Number: PUC0073

Sampled: 03/01/11

Received: 03/01/11

TOTAL METALS BY ICP/MS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC0073-03 (MW-14 - Water)				Sampled: 03/01/11				
Reporting Units: mg/l								
Arsenic	E200.8	11C0072	0.0010	0.0019	1	3/2/2011	3/4/2011	
Barium	E200.8	11C0072	0.0010	0.29	1	3/2/2011	3/4/2011	
Cadmium	E200.8	11C0072	0.0010	ND	1	3/2/2011	3/4/2011	
Chromium	E200.8	11C0072	0.0010	ND	1	3/2/2011	3/4/2011	
Lead	E200.8	11C0072	0.0010	0.011	1	3/2/2011	3/4/2011	
Selenium	E200.8	11C0072	0.0020	ND	1	3/2/2011	3/4/2011	
Silver	E200.8	11C0072	0.0010	ND	1	3/2/2011	3/4/2011	M2
Sample ID: PUC0073-04 (MW-15 - Water)				Sampled: 03/01/11				
Reporting Units: mg/l								
Arsenic	E200.8	11C0072	0.0010	0.0030	1	3/2/2011	3/4/2011	
Barium	E200.8	11C0072	0.0010	0.23	1	3/2/2011	3/4/2011	
Cadmium	E200.8	11C0072	0.0010	ND	1	3/2/2011	3/4/2011	
Chromium	E200.8	11C0072	0.0010	ND	1	3/2/2011	3/4/2011	
Lead	E200.8	11C0072	0.0010	0.0037	1	3/2/2011	3/4/2011	
Selenium	E200.8	11C0072	0.0020	ND	1	3/2/2011	3/4/2011	
Silver	E200.8	11C0072	0.0010	ND	1	3/2/2011	3/4/2011	
Sample ID: PUC0073-05 (MW-8 - Water)				Sampled: 03/01/11				
Reporting Units: mg/l								
Arsenic	E200.8	11C0072	0.0010	0.048	1	3/2/2011	3/4/2011	
Barium	E200.8	11C0072	0.0010	0.012	1	3/2/2011	3/4/2011	
Cadmium	E200.8	11C0072	0.0010	ND	1	3/2/2011	3/4/2011	
Chromium	E200.8	11C0072	0.0010	0.023	1	3/2/2011	3/4/2011	
Lead	E200.8	11C0072	0.0010	0.0046	1	3/2/2011	3/4/2011	
Selenium	E200.8	11C0072	0.0020	ND	1	3/2/2011	3/4/2011	
Silver	E200.8	11C0072	0.0010	ND	1	3/2/2011	3/4/2011	

TestAmerica Phoenix

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Project ID: UPCO/3994018

Report Number: PUC0073

Sampled: 03/01/11

Received: 03/01/11

TOTAL METALS BY ICP/MS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC0073-06 (MW-9 - Water)				Sampled: 03/01/11				
Reporting Units: mg/l								
Arsenic	E200.8	11C0072	0.0010	0.0084	1	3/2/2011	3/4/2011	
Barium	E200.8	11C0072	0.0010	0.062	1	3/2/2011	3/4/2011	
Cadmium	E200.8	11C0072	0.0010	ND	1	3/2/2011	3/4/2011	
Chromium	E200.8	11C0072	0.0010	ND	1	3/2/2011	3/4/2011	
Lead	E200.8	11C0072	0.0010	ND	1	3/2/2011	3/4/2011	
Selenium	E200.8	11C0072	0.0020	ND	1	3/2/2011	3/4/2011	
Silver	E200.8	11C0072	0.0010	ND	1	3/2/2011	3/4/2011	M2
Sample ID: PUC0073-07 (MW-12 - Water)				Sampled: 03/01/11				
Reporting Units: mg/l								
Arsenic	E200.8	11C0072	0.0010	0.0074	1	3/2/2011	3/4/2011	
Barium	E200.8	11C0072	0.0010	0.028	1	3/2/2011	3/4/2011	
Cadmium	E200.8	11C0072	0.0010	ND	1	3/2/2011	3/4/2011	
Chromium	E200.8	11C0072	0.0010	0.0068	1	3/2/2011	3/4/2011	
Lead	E200.8	11C0072	0.0010	0.0027	1	3/2/2011	3/4/2011	
Selenium	E200.8	11C0072	0.0020	ND	1	3/2/2011	3/4/2011	
Silver	E200.8	11C0072	0.0010	ND	1	3/2/2011	3/4/2011	

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 Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC0073

Sampled: 03/01/11

Received: 03/01/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC0073-03 (MW-14 - Water)				Sampled: 03/01/11				
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11C0299	2.0	ND	1	3/8/2011	3/8/2011	
Sample ID: PUC0073-04 (MW-15 - Water)				Sampled: 03/01/11				
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11C0299	2.0	ND	1	3/8/2011	3/8/2011	
Sample ID: PUC0073-05 (MW-8 - Water)				Sampled: 03/01/11				
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11C0299	2.0	ND	1	3/8/2011	3/8/2011	
Sample ID: PUC0073-06 (MW-9 - Water)				Sampled: 03/01/11				
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11C0299	2.0	ND	1	3/8/2011	3/8/2011	
Sample ID: PUC0073-07 (MW-12 - Water)				Sampled: 03/01/11				
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11C0299	2.0	ND	1	3/8/2011	3/8/2011	

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Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC0073

Sampled: 03/01/11

Received: 03/01/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0051 Extracted: 03/02/11										
Blank Analyzed: 03/02/2011 (11C0051-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	0.50	ug/l							
Bromochloromethane	ND	0.50	ug/l							
Bromodichloromethane	ND	0.50	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
2-Butanone (MEK)	ND	2.5	ug/l							
n-Butylbenzene	ND	0.50	ug/l							
sec-Butylbenzene	ND	0.50	ug/l							
tert-Butylbenzene	ND	0.50	ug/l							
Carbon disulfide	ND	0.50	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	0.50	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	0.50	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	0.50	ug/l							
4-Chlorotoluene	ND	0.50	ug/l							
Dibromochloromethane	ND	0.50	ug/l							
1,2-Dibromo-3-chloropropane	ND	2.5	ug/l							
1,2-Dibromoethane (EDB)	ND	0.50	ug/l							
Dibromomethane	ND	0.50	ug/l							
1,2-Dichlorobenzene	ND	0.50	ug/l							
1,3-Dichlorobenzene	ND	0.50	ug/l							
1,4-Dichlorobenzene	ND	0.50	ug/l							
Dichlorodifluoromethane	ND	0.50	ug/l							
1,1-Dichloroethane	ND	0.50	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	0.50	ug/l							
cis-1,2-Dichloroethene	ND	0.50	ug/l							
trans-1,2-Dichloroethene	ND	0.50	ug/l							
1,2-Dichloropropane	ND	0.50	ug/l							
1,3-Dichloropropane	ND	0.50	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							

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Attention: Gregory Guimond

Project ID: UPCO/3994018
Report Number: PUC0073

Sampled: 03/01/11
Received: 03/01/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0051 Extracted: 03/02/11										
Blank Analyzed: 03/02/2011 (11C0051-BLK1)										
1,1-Dichloropropene	ND	0.50	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
2-Hexanone	ND	2.5	ug/l							
Iodomethane	ND	2.5	ug/l							
Isopropylbenzene	ND	0.50	ug/l							
p-Isopropyltoluene	ND	0.50	ug/l							
Methylene Chloride	ND	1.0	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	2.5	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	0.50	ug/l							
Naphthalene	ND	2.5	ug/l							
n-Propylbenzene	ND	0.50	ug/l							
Styrene	ND	0.50	ug/l							
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l							
Tetrachloroethene	ND	0.50	ug/l							
Toluene	ND	0.50	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	0.50	ug/l							
1,1,2-Trichloroethane	ND	0.50	ug/l							
Trichloroethene	ND	0.50	ug/l							
Trichlorofluoromethane	ND	0.50	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	0.50	ug/l							
1,3,5-Trimethylbenzene	ND	0.50	ug/l							
Vinyl Acetate	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
Xylenes, Total	ND	1.0	ug/l							
Surrogate: Dibromofluoromethane	24.1		ug/l	25.0		97	80-130			
Surrogate: Toluene-d8	25.2		ug/l	25.0		101	80-120			
Surrogate: 4-Bromofluorobenzene	25.5		ug/l	25.0		102	80-125			

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC0073

Sampled: 03/01/11

Received: 03/01/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 11C0051 Extracted: 03/02/11										
LCS Analyzed: 03/02/2011 (11C0051-BS1)										
Acetone	23.1	10	ug/l	25.0		92	30-150			
Benzene	23.9	0.50	ug/l	25.0		96	70-130			
Bromobenzene	25.8	0.50	ug/l	25.0		103	70-130			
Bromochloromethane	23.7	0.50	ug/l	25.0		95	70-130			
Bromodichloromethane	25.4	0.50	ug/l	25.0		101	70-130			
Bromoform	23.9	1.0	ug/l	25.0		96	67-122			
Bromomethane	24.7	1.0	ug/l	25.0		99	64-132			
2-Butanone (MEK)	26.0	2.5	ug/l	25.0		104	48-150			
n-Butylbenzene	27.5	0.50	ug/l	25.0		110	70-130			
sec-Butylbenzene	26.8	0.50	ug/l	25.0		107	70-130			
tert-Butylbenzene	25.7	0.50	ug/l	25.0		103	70-130			
Carbon disulfide	26.9	0.50	ug/l	25.0		108	61-126			
Carbon tetrachloride	27.1	0.50	ug/l	25.0		108	70-130			
Chlorobenzene	24.7	0.50	ug/l	25.0		99	70-130			
Chloroethane	26.7	1.0	ug/l	25.0		107	69-128			
Chloroform	24.2	0.50	ug/l	25.0		97	70-130			
Chloromethane	26.4	1.0	ug/l	25.0		106	56-131			
2-Chlorotoluene	24.4	0.50	ug/l	25.0		97	70-130			
4-Chlorotoluene	25.6	0.50	ug/l	25.0		102	70-130			
Dibromochloromethane	24.3	0.50	ug/l	25.0		97	70-130			
1,2-Dibromo-3-chloropropane	26.7	2.5	ug/l	25.0		107	63-129			
1,2-Dibromoethane (EDB)	25.4	0.50	ug/l	25.0		101	70-130			
Dibromomethane	26.1	0.50	ug/l	25.0		104	70-130			
1,2-Dichlorobenzene	25.6	0.50	ug/l	25.0		102	70-130			
1,3-Dichlorobenzene	25.0	0.50	ug/l	25.0		100	70-130			
1,4-Dichlorobenzene	24.9	0.50	ug/l	25.0		99	70-130			
Dichlorodifluoromethane	31.7	0.50	ug/l	25.0		127	42-150			
1,1-Dichloroethane	24.1	0.50	ug/l	25.0		96	70-130			
1,2-Dichloroethane	25.8	0.50	ug/l	25.0		103	72-133			
1,1-Dichloroethene	23.0	0.50	ug/l	25.0		92	70-130			
cis-1,2-Dichloroethene	23.2	0.50	ug/l	25.0		93	70-130			
trans-1,2-Dichloroethene	25.5	0.50	ug/l	25.0		102	70-130			
1,2-Dichloropropane	24.8	0.50	ug/l	25.0		99	70-130			
1,3-Dichloropropane	26.0	0.50	ug/l	25.0		104	70-130			
2,2-Dichloropropane	25.4	1.0	ug/l	25.0		102	70-130			

TestAmerica Phoenix

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Report Number: PUC0073

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Received: 03/01/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 11C0051 Extracted: 03/02/11										
LCS Analyzed: 03/02/2011 (11C0051-BS1)										
1,1-Dichloropropene	25.6	0.50	ug/l	25.0		103	70-130			
cis-1,3-Dichloropropene	25.3	0.50	ug/l	25.0		101	70-130			
trans-1,3-Dichloropropene	24.3	0.50	ug/l	25.0		97	70-130			
Ethylbenzene	24.9	0.50	ug/l	25.0		100	70-130			
Hexachlorobutadiene	28.4	1.0	ug/l	25.0		113	70-130			
2-Hexanone	30.1	2.5	ug/l	25.0		120	44-150			
Iodomethane	24.8	2.5	ug/l	25.0		99	58-138			
Isopropylbenzene	27.6	0.50	ug/l	25.0		110	70-130			
p-Isopropyltoluene	26.4	0.50	ug/l	25.0		106	80-130			
Methylene Chloride	21.6	1.0	ug/l	25.0		86	70-130			
4-Methyl-2-pentanone (MIBK)	31.0	2.5	ug/l	25.0		124	61-142			
Methyl-tert-butyl Ether (MTBE)	27.2	0.50	ug/l	25.0		109	70-130			
Naphthalene	25.6	2.5	ug/l	25.0		103	65-129			
n-Propylbenzene	26.1	0.50	ug/l	25.0		105	70-130			
Styrene	23.0	0.50	ug/l	25.0		92	70-130			
1,1,1,2-Tetrachloroethane	25.6	0.50	ug/l	25.0		102	70-130			
1,1,2,2-Tetrachloroethane	27.1	0.50	ug/l	25.0		108	70-130			
Tetrachloroethene	26.1	0.50	ug/l	25.0		104	70-130			
Toluene	22.8	0.50	ug/l	25.0		91	70-130			
1,2,3-Trichlorobenzene	27.4	1.0	ug/l	25.0		110	70-130			
1,2,4-Trichlorobenzene	24.5	1.0	ug/l	25.0		98	70-130			
1,1,1-Trichloroethane	26.2	0.50	ug/l	25.0		105	70-130			
1,1,2-Trichloroethane	26.3	0.50	ug/l	25.0		105	70-130			
Trichloroethene	23.8	0.50	ug/l	25.0		95	70-130			
Trichlorofluoromethane	29.4	0.50	ug/l	25.0		118	78-149			
1,2,3-Trichloropropane	27.9	1.0	ug/l	25.0		111	70-130			
1,2,4-Trimethylbenzene	25.2	0.50	ug/l	25.0		101	70-130			
1,3,5-Trimethylbenzene	25.2	0.50	ug/l	25.0		101	70-130			
Vinyl Acetate	41.1	1.0	ug/l	25.0		164	57-149			L3
Vinyl chloride	27.3	0.50	ug/l	25.0		109	66-134			
Xylenes, Total	51.3	1.0	ug/l	50.0		103	70-130			
Surrogate: Dibromofluoromethane	26.2		ug/l	25.0		105	70-130			
Surrogate: Toluene-d8	26.0		ug/l	25.0		104	70-130			
Surrogate: 4-Bromofluorobenzene	27.2		ug/l	25.0		109	70-130			

TestAmerica Phoenix

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Sampled: 03/01/11
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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0051 Extracted: 03/02/11										
LCS Dup Analyzed: 03/02/2011 (11C0051-BSD1)										
Acetone	21.0	10	ug/l	25.0		84	30-150	9	35	
Benzene	23.1	0.50	ug/l	25.0		92	70-130	3	20	
Bromobenzene	25.7	0.50	ug/l	25.0		103	70-130	0.4	20	
Bromochloromethane	24.5	0.50	ug/l	25.0		98	70-130	4	20	
Bromodichloromethane	24.9	0.50	ug/l	25.0		100	70-130	2	20	
Bromoform	24.5	1.0	ug/l	25.0		98	67-122	2	20	
Bromomethane	24.6	1.0	ug/l	25.0		98	64-132	0.7	20	
2-Butanone (MEK)	24.0	2.5	ug/l	25.0		96	48-150	8	33	
n-Butylbenzene	27.0	0.50	ug/l	25.0		108	70-130	2	20	
sec-Butylbenzene	26.4	0.50	ug/l	25.0		106	70-130	1	20	
tert-Butylbenzene	24.8	0.50	ug/l	25.0		99	70-130	4	20	
Carbon disulfide	25.8	0.50	ug/l	25.0		103	61-126	4	20	
Carbon tetrachloride	26.8	0.50	ug/l	25.0		107	70-130	1	20	
Chlorobenzene	24.8	0.50	ug/l	25.0		99	70-130	0.3	20	
Chloroethane	25.8	1.0	ug/l	25.0		103	69-128	3	20	
Chloroform	23.6	0.50	ug/l	25.0		94	70-130	3	20	
Chloromethane	26.5	1.0	ug/l	25.0		106	56-131	0.1	20	
2-Chlorotoluene	24.2	0.50	ug/l	25.0		97	70-130	0.6	20	
4-Chlorotoluene	25.4	0.50	ug/l	25.0		102	70-130	0.6	20	
Dibromochloromethane	24.2	0.50	ug/l	25.0		97	70-130	0.5	20	
1,2-Dibromo-3-chloropropane	28.2	2.5	ug/l	25.0		113	63-129	5	25	
1,2-Dibromoethane (EDB)	27.0	0.50	ug/l	25.0		108	70-130	6	20	
Dibromomethane	25.8	0.50	ug/l	25.0		103	70-130	1	20	
1,2-Dichlorobenzene	24.5	0.50	ug/l	25.0		98	70-130	4	20	
1,3-Dichlorobenzene	24.6	0.50	ug/l	25.0		98	70-130	2	20	
1,4-Dichlorobenzene	24.6	0.50	ug/l	25.0		99	70-130	0.9	20	
Dichlorodifluoromethane	30.5	0.50	ug/l	25.0		122	42-150	4	20	
1,1-Dichloroethane	23.5	0.50	ug/l	25.0		94	70-130	3	20	
1,2-Dichloroethane	25.0	0.50	ug/l	25.0		100	72-133	3	20	
1,1-Dichloroethene	21.9	0.50	ug/l	25.0		88	70-130	5	20	
cis-1,2-Dichloroethene	23.4	0.50	ug/l	25.0		94	70-130	1	20	
trans-1,2-Dichloroethene	25.1	0.50	ug/l	25.0		100	70-130	2	20	
1,2-Dichloropropane	23.5	0.50	ug/l	25.0		94	70-130	5	20	
1,3-Dichloropropane	24.9	0.50	ug/l	25.0		99	70-130	4	20	
2,2-Dichloropropane	24.8	1.0	ug/l	25.0		99	70-130	2	20	

TestAmerica Phoenix

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Report Number: PUC0073

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Received: 03/01/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0051 Extracted: 03/02/11										
LCS Dup Analyzed: 03/02/2011 (11C0051-BSD1)										
1,1-Dichloropropene	24.9	0.50	ug/l	25.0		100	70-130	3	20	
cis-1,3-Dichloropropene	25.6	0.50	ug/l	25.0		103	70-130	1	20	
trans-1,3-Dichloropropene	23.6	0.50	ug/l	25.0		94	70-130	3	20	
Ethylbenzene	25.0	0.50	ug/l	25.0		100	70-130	0.3	20	
Hexachlorobutadiene	27.0	1.0	ug/l	25.0		108	70-130	5	20	
2-Hexanone	28.0	2.5	ug/l	25.0		112	44-150	7	31	
Iodomethane	24.2	2.5	ug/l	25.0		97	58-138	2	25	
Isopropylbenzene	27.2	0.50	ug/l	25.0		109	70-130	1	20	
p-Isopropyltoluene	26.9	0.50	ug/l	25.0		107	80-130	2	15	
Methylene Chloride	21.4	1.0	ug/l	25.0		85	70-130	0.9	20	
4-Methyl-2-pentanone (MIBK)	30.5	2.5	ug/l	25.0		122	61-142	1	22	
Methyl-tert-butyl Ether (MTBE)	25.1	0.50	ug/l	25.0		100	70-130	8	20	
Naphthalene	24.0	2.5	ug/l	25.0		96	65-129	6	20	
n-Propylbenzene	26.5	0.50	ug/l	25.0		106	70-130	1	20	
Styrene	22.9	0.50	ug/l	25.0		91	70-130	0.6	20	
1,1,1,2-Tetrachloroethane	25.0	0.50	ug/l	25.0		100	70-130	2	20	
1,1,2,2-Tetrachloroethane	28.5	0.50	ug/l	25.0		114	70-130	5	20	
Tetrachloroethene	25.2	0.50	ug/l	25.0		101	70-130	4	20	
Toluene	22.7	0.50	ug/l	25.0		91	70-130	0.6	20	
1,2,3-Trichlorobenzene	25.9	1.0	ug/l	25.0		104	70-130	6	20	
1,2,4-Trichlorobenzene	23.8	1.0	ug/l	25.0		95	70-130	3	20	
1,1,1-Trichloroethane	25.3	0.50	ug/l	25.0		101	70-130	3	20	
1,1,2-Trichloroethane	25.2	0.50	ug/l	25.0		101	70-130	4	20	
Trichloroethene	23.8	0.50	ug/l	25.0		95	70-130	0.3	20	
Trichlorofluoromethane	28.6	0.50	ug/l	25.0		114	78-149	3	20	
1,2,3-Trichloropropane	28.1	1.0	ug/l	25.0		112	70-130	0.8	20	
1,2,4-Trimethylbenzene	26.2	0.50	ug/l	25.0		105	70-130	4	20	
1,3,5-Trimethylbenzene	25.5	0.50	ug/l	25.0		102	70-130	1	20	
Vinyl Acetate	41.7	1.0	ug/l	25.0		167	57-149	1	21	L3
Vinyl chloride	26.3	0.50	ug/l	25.0		105	66-134	4	20	
Xylenes, Total	50.9	1.0	ug/l	50.0		102	70-130	0.7	20	
Surrogate: Dibromofluoromethane	25.6		ug/l	25.0		102	70-130			
Surrogate: Toluene-d8	25.8		ug/l	25.0		103	70-130			
Surrogate: 4-Bromofluorobenzene	27.7		ug/l	25.0		111	70-130			

TestAmerica Phoenix

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0051 Extracted: 03/02/11										
Matrix Spike Analyzed: 03/02/2011 (11C0051-MS1)					Source: PUC0046-03					
Acetone	18.0	10	ug/l	25.0	5.39	50	10-150			
Benzene	25.8	0.50	ug/l	25.0	ND	103	70-130			
Bromobenzene	27.0	0.50	ug/l	25.0	ND	108	70-130			
Bromochloromethane	23.4	0.50	ug/l	25.0	ND	94	70-130			
Bromodichloromethane	27.0	0.50	ug/l	25.0	ND	108	70-130			
Bromoform	23.8	1.0	ug/l	25.0	ND	95	62-126			
Bromomethane	26.2	1.0	ug/l	25.0	ND	105	55-136			
2-Butanone (MEK)	20.1	2.5	ug/l	25.0	ND	80	22-150			
n-Butylbenzene	29.9	0.50	ug/l	25.0	ND	120	70-130			
sec-Butylbenzene	28.4	0.50	ug/l	25.0	ND	114	70-130			
tert-Butylbenzene	28.6	0.50	ug/l	25.0	ND	114	70-130			
Carbon disulfide	30.4	0.50	ug/l	25.0	ND	121	56-132			
Carbon tetrachloride	30.9	0.50	ug/l	25.0	ND	124	76-131			
Chlorobenzene	24.7	0.50	ug/l	25.0	ND	99	70-130			
Chloroethane	28.4	1.0	ug/l	25.0	ND	114	67-134			
Chloroform	25.3	0.50	ug/l	25.0	ND	101	70-130			
Chloromethane	26.5	1.0	ug/l	25.0	ND	106	50-135			
2-Chlorotoluene	27.0	0.50	ug/l	25.0	ND	108	70-130			
4-Chlorotoluene	27.8	0.50	ug/l	25.0	ND	111	70-130			
Dibromochloromethane	23.5	0.50	ug/l	25.0	ND	94	70-130			
1,2-Dibromo-3-chloropropane	25.9	2.5	ug/l	25.0	ND	104	60-135			
1,2-Dibromoethane (EDB)	25.3	0.50	ug/l	25.0	ND	101	70-130			
Dibromomethane	27.1	0.50	ug/l	25.0	ND	108	70-130			
1,2-Dichlorobenzene	26.7	0.50	ug/l	25.0	ND	107	70-130			
1,3-Dichlorobenzene	26.7	0.50	ug/l	25.0	ND	107	70-130			
1,4-Dichlorobenzene	26.4	0.50	ug/l	25.0	ND	106	70-130			
Dichlorodifluoromethane	36.9	0.50	ug/l	25.0	ND	147	36-150			
1,1-Dichloroethane	26.1	0.50	ug/l	25.0	ND	104	70-130			
1,2-Dichloroethane	25.8	0.50	ug/l	25.0	ND	103	68-143			
1,1-Dichloroethene	25.7	0.50	ug/l	25.0	ND	103	70-130			
cis-1,2-Dichloroethene	23.8	0.50	ug/l	25.0	ND	95	70-130			
trans-1,2-Dichloroethene	26.7	0.50	ug/l	25.0	ND	107	70-130			
1,2-Dichloropropane	25.2	0.50	ug/l	25.0	ND	101	70-130			
1,3-Dichloropropane	25.1	0.50	ug/l	25.0	ND	100	70-130			
2,2-Dichloropropane	28.2	1.0	ug/l	25.0	ND	113	66-130			

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VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0051 Extracted: 03/02/11										
Matrix Spike Analyzed: 03/02/2011 (11C0051-MS1)					Source: PUC0046-03					
1,1-Dichloropropene	28.6	0.50	ug/l	25.0	ND	115	70-130			
cis-1,3-Dichloropropene	26.3	0.50	ug/l	25.0	ND	105	70-130			
trans-1,3-Dichloropropene	23.8	0.50	ug/l	25.0	ND	95	71-132			
Ethylbenzene	26.2	0.50	ug/l	25.0	ND	105	70-130			
Hexachlorobutadiene	29.8	1.0	ug/l	25.0	ND	119	66-129			
2-Hexanone	22.6	2.5	ug/l	25.0	ND	91	18-150			
Iodomethane	26.9	2.5	ug/l	25.0	ND	107	47-141			
Isopropylbenzene	32.0	0.50	ug/l	25.0	ND	128	78-137			
p-Isopropyltoluene	30.1	0.50	ug/l	25.0	ND	120	70-130			
Methylene Chloride	22.4	1.0	ug/l	25.0	ND	89	74-132			
4-Methyl-2-pentanone (MIBK)	30.1	2.5	ug/l	25.0	ND	120	56-145			
Methyl-tert-butyl Ether (MTBE)	24.6	0.50	ug/l	25.0	ND	98	67-138			
Naphthalene	24.8	2.5	ug/l	25.0	ND	99	54-135			
n-Propylbenzene	29.8	0.50	ug/l	25.0	ND	119	70-130			
Styrene	23.0	0.50	ug/l	25.0	ND	92	51-123			
1,1,1,2-Tetrachloroethane	25.9	0.50	ug/l	25.0	ND	103	70-130			
1,1,2,2-Tetrachloroethane	27.9	0.50	ug/l	25.0	ND	112	69-133			
Tetrachloroethene	27.7	0.50	ug/l	25.0	ND	111	70-130			
Toluene	26.0	0.50	ug/l	25.0	ND	104	70-130			
1,2,3-Trichlorobenzene	28.6	1.0	ug/l	25.0	ND	114	70-130			
1,2,4-Trichlorobenzene	25.6	1.0	ug/l	25.0	ND	102	66-126			
1,1,1-Trichloroethane	29.0	0.50	ug/l	25.0	ND	116	76-132			
1,1,2-Trichloroethane	27.1	0.50	ug/l	25.0	ND	108	70-130			
Trichloroethene	27.0	0.50	ug/l	25.0	ND	108	70-130			
Trichlorofluoromethane	35.2	0.50	ug/l	25.0	ND	141	74-150			
1,2,3-Trichloropropane	28.5	1.0	ug/l	25.0	ND	114	70-130			
1,2,4-Trimethylbenzene	29.1	0.50	ug/l	25.0	ND	116	70-130			
1,3,5-Trimethylbenzene	28.8	0.50	ug/l	25.0	ND	115	61-138			
Vinyl Acetate	40.9	1.0	ug/l	25.0	ND	164	50-150			NI
Vinyl chloride	28.5	0.50	ug/l	25.0	ND	114	58-139			
Xylenes, Total	51.9	1.0	ug/l	50.0	ND	104	70-130			
Surrogate: Dibromofluoromethane	25.9		ug/l	25.0		104	70-130			
Surrogate: Toluene-d8	26.5		ug/l	25.0		106	70-130			
Surrogate: 4-Bromofluorobenzene	27.9		ug/l	25.0		111	70-130			

TestAmerica Phoenix

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Project ID: UPCO/3994018

Report Number: PUC0073

Sampled: 03/01/11

Received: 03/01/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 11C0051 Extracted: 03/02/11										
Matrix Spike Dup Analyzed: 03/02/2011 (11C0051-MSD1)					Source: PUC0046-03					
Acetone	17.1	10	ug/l	25.0	5.39	47	10-150	5	35	
Benzene	26.1	0.50	ug/l	25.0	ND	104	70-130	0.9	20	
Bromobenzene	26.3	0.50	ug/l	25.0	ND	105	70-130	2	20	
Bromochloromethane	25.2	0.50	ug/l	25.0	ND	101	70-130	7	20	
Bromodichloromethane	27.3	0.50	ug/l	25.0	ND	109	70-130	1	20	
Bromoform	23.6	1.0	ug/l	25.0	ND	95	62-126	0.8	20	
Bromomethane	26.7	1.0	ug/l	25.0	ND	107	55-136	2	24	
2-Butanone (MEK)	20.4	2.5	ug/l	25.0	ND	81	22-150	1	31	
n-Butylbenzene	30.2	0.50	ug/l	25.0	ND	121	70-130	1	20	
sec-Butylbenzene	27.8	0.50	ug/l	25.0	ND	111	70-130	2	20	
tert-Butylbenzene	27.1	0.50	ug/l	25.0	ND	109	70-130	5	20	
Carbon disulfide	28.6	0.50	ug/l	25.0	ND	114	56-132	6	20	
Carbon tetrachloride	30.0	0.50	ug/l	25.0	ND	120	76-131	3	20	
Chlorobenzene	25.4	0.50	ug/l	25.0	ND	102	70-130	3	20	
Chloroethane	27.7	1.0	ug/l	25.0	ND	111	67-134	2	20	
Chloroform	26.0	0.50	ug/l	25.0	ND	104	70-130	3	20	
Chloromethane	27.6	1.0	ug/l	25.0	ND	110	50-135	4	20	
2-Chlorotoluene	25.3	0.50	ug/l	25.0	ND	101	70-130	6	20	
4-Chlorotoluene	27.5	0.50	ug/l	25.0	ND	110	70-130	1	20	
Dibromochloromethane	25.0	0.50	ug/l	25.0	ND	100	70-130	6	20	
1,2-Dibromo-3-chloropropane	26.7	2.5	ug/l	25.0	ND	107	60-135	3	29	
1,2-Dibromoethane (EDB)	26.2	0.50	ug/l	25.0	ND	105	70-130	3	20	
Dibromomethane	27.2	0.50	ug/l	25.0	ND	109	70-130	0.3	20	
1,2-Dichlorobenzene	26.4	0.50	ug/l	25.0	ND	106	70-130	1	20	
1,3-Dichlorobenzene	27.5	0.50	ug/l	25.0	ND	110	70-130	3	20	
1,4-Dichlorobenzene	26.2	0.50	ug/l	25.0	ND	105	70-130	1	20	
Dichlorodifluoromethane	36.5	0.50	ug/l	25.0	ND	146	36-150	0.9	22	
1,1-Dichloroethane	25.4	0.50	ug/l	25.0	ND	102	70-130	3	20	
1,2-Dichloroethane	25.9	0.50	ug/l	25.0	ND	104	68-143	0.3	20	
1,1-Dichloroethene	26.0	0.50	ug/l	25.0	ND	104	70-130	1	20	
cis-1,2-Dichloroethene	24.9	0.50	ug/l	25.0	ND	100	70-130	4	20	
trans-1,2-Dichloroethene	26.7	0.50	ug/l	25.0	ND	107	70-130	0.2	20	
1,2-Dichloropropane	27.1	0.50	ug/l	25.0	ND	108	70-130	7	20	
1,3-Dichloropropane	26.5	0.50	ug/l	25.0	ND	106	70-130	6	20	
2,2-Dichloropropane	26.4	1.0	ug/l	25.0	ND	106	66-130	7	20	

TestAmerica Phoenix

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Report Number: PUC0073

Sampled: 03/01/11

Received: 03/01/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0051 Extracted: 03/02/11										
Matrix Spike Dup Analyzed: 03/02/2011 (11C0051-MSD1)					Source: PUC0046-03					
1,1-Dichloropropene	27.0	0.50	ug/l	25.0	ND	108	70-130	6	20	
cis-1,3-Dichloropropene	26.4	0.50	ug/l	25.0	ND	106	70-130	0.3	20	
trans-1,3-Dichloropropene	24.2	0.50	ug/l	25.0	ND	97	71-132	2	20	
Ethylbenzene	26.7	0.50	ug/l	25.0	ND	107	70-130	2	20	
Hexachlorobutadiene	27.1	1.0	ug/l	25.0	ND	108	66-129	9	21	
2-Hexanone	23.1	2.5	ug/l	25.0	ND	92	18-150	2	25	
Iodomethane	26.7	2.5	ug/l	25.0	ND	107	47-141	0.7	29	
Isopropylbenzene	29.7	0.50	ug/l	25.0	ND	119	78-137	7	20	
p-Isopropyltoluene	28.6	0.50	ug/l	25.0	ND	115	70-130	5	30	
Methylene Chloride	23.0	1.0	ug/l	25.0	ND	92	74-132	3	20	
4-Methyl-2-pentanone (MIBK)	29.4	2.5	ug/l	25.0	ND	117	56-145	2	26	
Methyl-tert-butyl Ether (MTBE)	25.2	0.50	ug/l	25.0	ND	101	67-138	3	21	
Naphthalene	23.9	2.5	ug/l	25.0	ND	96	54-135	4	33	
n-Propylbenzene	28.0	0.50	ug/l	25.0	ND	112	70-130	6	20	
Styrene	23.2	0.50	ug/l	25.0	ND	93	51-123	0.8	21	
1,1,1,2-Tetrachloroethane	26.9	0.50	ug/l	25.0	ND	107	70-130	4	20	
1,1,2,2-Tetrachloroethane	27.8	0.50	ug/l	25.0	ND	111	69-133	0.2	20	
Tetrachloroethene	28.1	0.50	ug/l	25.0	ND	112	70-130	1	20	
Toluene	26.1	0.50	ug/l	25.0	ND	104	70-130	0.3	20	
1,2,3-Trichlorobenzene	28.2	1.0	ug/l	25.0	ND	113	70-130	1	20	
1,2,4-Trichlorobenzene	25.5	1.0	ug/l	25.0	ND	102	66-126	0.3	20	
1,1,1-Trichloroethane	28.0	0.50	ug/l	25.0	ND	112	76-132	3	20	
1,1,2-Trichloroethane	26.6	0.50	ug/l	25.0	ND	106	70-130	2	20	
Trichloroethene	27.2	0.50	ug/l	25.0	ND	109	70-130	0.6	20	
Trichlorofluoromethane	33.0	0.50	ug/l	25.0	ND	132	74-150	7	20	
1,2,3-Trichloropropane	27.4	1.0	ug/l	25.0	ND	110	70-130	4	20	
1,2,4-Trimethylbenzene	28.0	0.50	ug/l	25.0	ND	112	70-130	4	20	
1,3,5-Trimethylbenzene	27.3	0.50	ug/l	25.0	ND	109	61-138	5	33	
Vinyl Acetate	40.6	1.0	ug/l	25.0	ND	162	50-150	0.7	23	NI
Vinyl chloride	28.7	0.50	ug/l	25.0	ND	115	58-139	0.6	21	
Xylenes, Total	54.5	1.0	ug/l	50.0	ND	109	70-130	5	20	
Surrogate: Dibromofluoromethane	26.6		ug/l	25.0		107	70-130			
Surrogate: Toluene-d8	27.1		ug/l	25.0		108	70-130			
Surrogate: 4-Bromofluorobenzene	28.9		ug/l	25.0		115	70-130			

TestAmerica Phoenix

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Received: 03/01/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits RPD	RPD Limit	Data Qualifiers
Batch: 11C0246 Extracted: 03/07/11									
Blank Analyzed: 03/07/2011 (11C0246-BLK1)									
Acetone	ND	10	ug/l						
Benzene	ND	0.50	ug/l						
Bromobenzene	ND	0.50	ug/l						
Bromochloromethane	ND	0.50	ug/l						
Bromodichloromethane	ND	0.50	ug/l						
Bromoform	ND	1.0	ug/l						
Bromomethane	ND	1.0	ug/l						
2-Butanone (MEK)	ND	2.5	ug/l						
n-Butylbenzene	ND	0.50	ug/l						
sec-Butylbenzene	ND	0.50	ug/l						
tert-Butylbenzene	ND	0.50	ug/l						
Carbon disulfide	ND	0.50	ug/l						
Carbon tetrachloride	ND	0.50	ug/l						
Chlorobenzene	ND	0.50	ug/l						
Chloroethane	ND	1.0	ug/l						
Chloroform	ND	0.50	ug/l						
Chloromethane	ND	1.0	ug/l						
2-Chlorotoluene	ND	0.50	ug/l						
4-Chlorotoluene	ND	0.50	ug/l						
Dibromochloromethane	ND	0.50	ug/l						
1,2-Dibromo-3-chloropropane	ND	2.5	ug/l						
1,2-Dibromoethane (EDB)	ND	0.50	ug/l						
Dibromomethane	ND	0.50	ug/l						
1,2-Dichlorobenzene	ND	0.50	ug/l						
1,3-Dichlorobenzene	ND	0.50	ug/l						
1,4-Dichlorobenzene	ND	0.50	ug/l						
Dichlorodifluoromethane	ND	0.50	ug/l						
1,1-Dichloroethane	ND	0.50	ug/l						
1,2-Dichloroethane	ND	0.50	ug/l						
1,1-Dichloroethene	ND	0.50	ug/l						
cis-1,2-Dichloroethene	ND	0.50	ug/l						
trans-1,2-Dichloroethene	ND	0.50	ug/l						
1,2-Dichloropropane	ND	0.50	ug/l						
1,3-Dichloropropane	ND	0.50	ug/l						
2,2-Dichloropropane	ND	1.0	ug/l						

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0246 Extracted: 03/07/11										
Blank Analyzed: 03/07/2011 (11C0246-BLK1)										
1,1-Dichloropropene	ND	0.50	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
2-Hexanone	ND	2.5	ug/l							
Iodomethane	ND	2.5	ug/l							
Isopropylbenzene	ND	0.50	ug/l							
p-Isopropyltoluene	ND	0.50	ug/l							
Methylene Chloride	ND	1.0	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	2.5	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	0.50	ug/l							
Naphthalene	ND	2.5	ug/l							
n-Propylbenzene	ND	0.50	ug/l							
Styrene	ND	0.50	ug/l							
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l							
Tetrachloroethene	ND	0.50	ug/l							
Toluene	ND	0.50	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	0.50	ug/l							
1,1,2-Trichloroethane	ND	0.50	ug/l							
Trichloroethene	ND	0.50	ug/l							
Trichlorofluoromethane	ND	0.50	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	0.50	ug/l							
1,3,5-Trimethylbenzene	ND	0.50	ug/l							
Vinyl Acetate	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
Xylenes, Total	ND	1.0	ug/l							
Surrogate: Dibromofluoromethane	25.6		ug/l	25.0		102	70-130			
Surrogate: Toluene-d8	25.2		ug/l	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	25.4		ug/l	25.0		101	70-130			

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Received: 03/01/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 11C0246 Extracted: 03/07/11										
LCS Analyzed: 03/07/2011 (11C0246-BS1)										
Acetone	17.4	10	ug/l	25.0		70	30-150			
Benzene	25.0	0.50	ug/l	25.0		100	70-130			
Bromobenzene	26.4	0.50	ug/l	25.0		105	70-130			
Bromochloromethane	26.4	0.50	ug/l	25.0		105	70-130			
Bromodichloromethane	27.2	0.50	ug/l	25.0		109	70-130			
Bromoform	24.4	1.0	ug/l	25.0		98	67-122			
Bromomethane	24.0	1.0	ug/l	25.0		96	64-132			
2-Butanone (MEK)	24.2	2.5	ug/l	25.0		97	48-150			
n-Butylbenzene	26.3	0.50	ug/l	25.0		105	70-130			
sec-Butylbenzene	26.9	0.50	ug/l	25.0		108	70-130			
tert-Butylbenzene	26.8	0.50	ug/l	25.0		107	70-130			
Carbon disulfide	27.8	0.50	ug/l	25.0		111	61-126			
Carbon tetrachloride	28.1	0.50	ug/l	25.0		112	70-130			
Chlorobenzene	25.5	0.50	ug/l	25.0		102	70-130			
Chloroethane	27.6	1.0	ug/l	25.0		110	69-128			
Chloroform	25.9	0.50	ug/l	25.0		103	70-130			
Chloromethane	26.5	1.0	ug/l	25.0		106	56-131			
2-Chlorotoluene	24.7	0.50	ug/l	25.0		99	70-130			
4-Chlorotoluene	26.7	0.50	ug/l	25.0		107	70-130			
Dibromochloromethane	25.0	0.50	ug/l	25.0		100	70-130			
1,2-Dibromo-3-chloropropane	25.0	2.5	ug/l	25.0		100	63-129			
1,2-Dibromoethane (EDB)	26.7	0.50	ug/l	25.0		107	70-130			
Dibromomethane	26.9	0.50	ug/l	25.0		107	70-130			
1,2-Dichlorobenzene	26.9	0.50	ug/l	25.0		108	70-130			
1,3-Dichlorobenzene	26.4	0.50	ug/l	25.0		106	70-130			
1,4-Dichlorobenzene	26.6	0.50	ug/l	25.0		106	70-130			
Dichlorodifluoromethane	27.0	0.50	ug/l	25.0		108	42-150			
1,1-Dichloroethane	26.8	0.50	ug/l	25.0		107	70-130			
1,2-Dichloroethane	26.4	0.50	ug/l	25.0		106	72-133			
1,1-Dichloroethene	25.1	0.50	ug/l	25.0		100	70-130			
cis-1,2-Dichloroethene	25.6	0.50	ug/l	25.0		102	70-130			
trans-1,2-Dichloroethene	26.7	0.50	ug/l	25.0		107	70-130			
1,2-Dichloropropane	27.0	0.50	ug/l	25.0		108	70-130			
1,3-Dichloropropane	27.0	0.50	ug/l	25.0		108	70-130			
2,2-Dichloropropane	28.2	1.0	ug/l	25.0		113	70-130			

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 11C0246 Extracted: 03/07/11										
LCS Analyzed: 03/07/2011 (11C0246-BS1)										
1,1-Dichloropropene	26.8	0.50	ug/l	25.0		107	70-130			
cis-1,3-Dichloropropene	28.8	0.50	ug/l	25.0		115	70-130			
trans-1,3-Dichloropropene	25.7	0.50	ug/l	25.0		103	70-130			
Ethylbenzene	27.7	0.50	ug/l	25.0		111	70-130			
Hexachlorobutadiene	30.4	1.0	ug/l	25.0		121	70-130			
2-Hexanone	25.7	2.5	ug/l	25.0		103	44-150			
Iodomethane	26.7	2.5	ug/l	25.0		107	58-138			
Isopropylbenzene	28.7	0.50	ug/l	25.0		115	70-130			
p-Isopropyltoluene	28.3	0.50	ug/l	25.0		113	70-130			
Methylene Chloride	22.4	1.0	ug/l	25.0		90	70-130			
4-Methyl-2-pentanone (MIBK)	29.4	2.5	ug/l	25.0		117	61-142			
Methyl-tert-butyl Ether (MTBE)	28.5	0.50	ug/l	25.0		114	70-130			
Naphthalene	25.8	2.5	ug/l	25.0		103	65-129			
n-Propylbenzene	26.8	0.50	ug/l	25.0		107	70-130			
Styrene	25.0	0.50	ug/l	25.0		100	70-130			
1,1,1,2-Tetrachloroethane	29.0	0.50	ug/l	25.0		116	70-130			
1,1,2,2-Tetrachloroethane	26.2	0.50	ug/l	25.0		105	70-130			
Tetrachloroethene	28.5	0.50	ug/l	25.0		114	70-130			
Toluene	25.8	0.50	ug/l	25.0		103	70-130			
1,2,3-Trichlorobenzene	29.7	1.0	ug/l	25.0		119	70-130			
1,2,4-Trichlorobenzene	27.8	1.0	ug/l	25.0		111	70-130			
1,1,1-Trichloroethane	28.4	0.50	ug/l	25.0		114	70-130			
1,1,2-Trichloroethane	27.4	0.50	ug/l	25.0		109	70-130			
Trichloroethene	26.8	0.50	ug/l	25.0		107	70-130			
Trichlorofluoromethane	29.7	0.50	ug/l	25.0		119	78-149			
1,2,3-Trichloropropane	26.1	1.0	ug/l	25.0		105	70-130			
1,2,4-Trimethylbenzene	27.4	0.50	ug/l	25.0		110	70-130			
1,3,5-Trimethylbenzene	27.1	0.50	ug/l	25.0		108	70-130			
Vinyl Acetate	44.1	1.0	ug/l	25.0		176	57-149			L3
Vinyl chloride	27.0	0.50	ug/l	25.0		108	66-134			
Xylenes, Total	54.7	1.0	ug/l	50.0		109	70-130			
Surrogate: Dibromofluoromethane	27.6		ug/l	25.0		110	70-130			
Surrogate: Toluene-d8	27.0		ug/l	25.0		108	70-130			
Surrogate: 4-Bromofluorobenzene	28.7		ug/l	25.0		115	70-130			

TestAmerica Phoenix

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Project ID: UPCO/3994018

Report Number: PUC0073

Sampled: 03/01/11

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0246 Extracted: 03/07/11										
LCS Dup Analyzed: 03/07/2011 (11C0246-BSD1)										
Acetone	19.5	10	ug/l	25.0		78	30-150	11	35	
Benzene	24.5	0.50	ug/l	25.0		98	70-130	2	20	
Bromobenzene	26.4	0.50	ug/l	25.0		105	70-130	0.04	20	
Bromochloromethane	26.2	0.50	ug/l	25.0		105	70-130	0.6	20	
Bromodichloromethane	26.9	0.50	ug/l	25.0		107	70-130	1	20	
Bromoform	24.4	1.0	ug/l	25.0		98	67-122	0.2	20	
Bromomethane	24.4	1.0	ug/l	25.0		98	64-132	2	20	
2-Butanone (MEK)	22.6	2.5	ug/l	25.0		90	48-150	7	33	
n-Butylbenzene	26.2	0.50	ug/l	25.0		105	70-130	0.3	20	
sec-Butylbenzene	25.6	0.50	ug/l	25.0		103	70-130	5	20	
tert-Butylbenzene	25.1	0.50	ug/l	25.0		101	70-130	6	20	
Carbon disulfide	26.8	0.50	ug/l	25.0		107	61-126	4	20	
Carbon tetrachloride	27.0	0.50	ug/l	25.0		108	70-130	4	20	
Chlorobenzene	26.2	0.50	ug/l	25.0		105	70-130	3	20	
Chloroethane	25.8	1.0	ug/l	25.0		103	69-128	7	20	
Chloroform	25.8	0.50	ug/l	25.0		103	70-130	0.3	20	
Chloromethane	24.5	1.0	ug/l	25.0		98	56-131	8	20	
2-Chlorotoluene	24.1	0.50	ug/l	25.0		97	70-130	2	20	
4-Chlorotoluene	25.6	0.50	ug/l	25.0		103	70-130	4	20	
Dibromochloromethane	25.6	0.50	ug/l	25.0		102	70-130	2	20	
1,2-Dibromo-3-chloropropane	25.8	2.5	ug/l	25.0		103	63-129	3	25	
1,2-Dibromoethane (EDB)	26.6	0.50	ug/l	25.0		107	70-130	0.3	20	
Dibromomethane	27.4	0.50	ug/l	25.0		109	70-130	2	20	
1,2-Dichlorobenzene	26.4	0.50	ug/l	25.0		106	70-130	2	20	
1,3-Dichlorobenzene	25.7	0.50	ug/l	25.0		103	70-130	3	20	
1,4-Dichlorobenzene	26.0	0.50	ug/l	25.0		104	70-130	2	20	
Dichlorodifluoromethane	23.9	0.50	ug/l	25.0		96	42-150	12	20	
1,1-Dichloroethane	25.8	0.50	ug/l	25.0		103	70-130	4	20	
1,2-Dichloroethane	26.9	0.50	ug/l	25.0		108	72-133	2	20	
1,1-Dichloroethene	23.8	0.50	ug/l	25.0		95	70-130	5	20	
cis-1,2-Dichloroethene	26.0	0.50	ug/l	25.0		104	70-130	2	20	
trans-1,2-Dichloroethene	26.3	0.50	ug/l	25.0		105	70-130	2	20	
1,2-Dichloropropane	26.1	0.50	ug/l	25.0		104	70-130	3	20	
1,3-Dichloropropane	25.5	0.50	ug/l	25.0		102	70-130	6	20	
2,2-Dichloropropane	25.4	1.0	ug/l	25.0		102	70-130	10	20	

TestAmerica Phoenix

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Report Number: PUC0073

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Received: 03/01/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0246 Extracted: 03/07/11										
LCS Dup Analyzed: 03/07/2011 (11C0246-BSD1)										
1,1-Dichloropropene	26.5	0.50	ug/l	25.0		106	70-130	1	20	
cis-1,3-Dichloropropene	27.7	0.50	ug/l	25.0		111	70-130	4	20	
trans-1,3-Dichloropropene	24.9	0.50	ug/l	25.0		100	70-130	3	20	
Ethylbenzene	25.9	0.50	ug/l	25.0		104	70-130	7	20	
Hexachlorobutadiene	29.4	1.0	ug/l	25.0		118	70-130	3	20	
2-Hexanone	27.5	2.5	ug/l	25.0		110	44-150	7	31	
Iodomethane	26.3	2.5	ug/l	25.0		105	58-138	2	25	
Isopropylbenzene	27.2	0.50	ug/l	25.0		109	70-130	5	20	
p-Isopropyltoluene	25.7	0.50	ug/l	25.0		103	70-130	9	20	
Methylene Chloride	23.2	1.0	ug/l	25.0		93	70-130	4	20	
4-Methyl-2-pentanone (MIBK)	30.2	2.5	ug/l	25.0		121	61-142	3	22	
Methyl-tert-butyl Ether (MTBE)	28.7	0.50	ug/l	25.0		115	70-130	0.7	20	
Naphthalene	26.0	2.5	ug/l	25.0		104	65-129	0.6	20	
n-Propylbenzene	25.9	0.50	ug/l	25.0		104	70-130	3	20	
Styrene	24.3	0.50	ug/l	25.0		97	70-130	3	20	
1,1,1,2-Tetrachloroethane	27.5	0.50	ug/l	25.0		110	70-130	5	20	
1,1,2,2-Tetrachloroethane	27.4	0.50	ug/l	25.0		110	70-130	5	20	
Tetrachloroethene	26.8	0.50	ug/l	25.0		107	70-130	6	20	
Toluene	24.2	0.50	ug/l	25.0		97	70-130	7	20	
1,2,3-Trichlorobenzene	29.4	1.0	ug/l	25.0		118	70-130	0.9	20	
1,2,4-Trichlorobenzene	25.8	1.0	ug/l	25.0		103	70-130	7	20	
1,1,1-Trichloroethane	26.3	0.50	ug/l	25.0		105	70-130	8	20	
1,1,2-Trichloroethane	28.0	0.50	ug/l	25.0		112	70-130	2	20	
Trichloroethene	26.0	0.50	ug/l	25.0		104	70-130	3	20	
Trichlorofluoromethane	28.2	0.50	ug/l	25.0		113	78-149	5	20	
1,2,3-Trichloropropane	27.5	1.0	ug/l	25.0		110	70-130	5	20	
1,2,4-Trimethylbenzene	26.7	0.50	ug/l	25.0		107	70-130	3	20	
1,3,5-Trimethylbenzene	26.0	0.50	ug/l	25.0		104	70-130	4	20	
Vinyl Acetate	41.5	1.0	ug/l	25.0		166	57-149	6	21	L3
Vinyl chloride	25.0	0.50	ug/l	25.0		100	66-134	8	20	
Xylenes, Total	54.0	1.0	ug/l	50.0		108	70-130	1	20	
Surrogate: Dibromofluoromethane	27.3		ug/l	25.0		109	70-130			
Surrogate: Toluene-d8	26.9		ug/l	25.0		107	70-130			
Surrogate: 4-Bromofluorobenzene	28.4		ug/l	25.0		114	70-130			

TestAmerica Phoenix

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD RPD	RPD Limit	Data Qualifiers
Batch: 11C0246 Extracted: 03/07/11									
Matrix Spike Analyzed: 03/07/2011 (11C0246-MS1)					Source: PUC0073-06RE1				
Acetone	12.7	10	ug/l	25.0	ND	51	10-150		
Benzene	25.6	0.50	ug/l	25.0	ND	102	70-130		
Bromobenzene	26.5	0.50	ug/l	25.0	ND	106	70-130		
Bromochloromethane	25.2	0.50	ug/l	25.0	ND	101	70-130		
Bromodichloromethane	27.8	0.50	ug/l	25.0	ND	111	70-130		
Bromoform	25.0	1.0	ug/l	25.0	ND	100	62-126		
Bromomethane	24.0	1.0	ug/l	25.0	ND	96	55-136		
2-Butanone (MEK)	19.4	2.5	ug/l	25.0	ND	78	22-150		
n-Butylbenzene	28.3	0.50	ug/l	25.0	ND	113	70-130		
sec-Butylbenzene	25.9	0.50	ug/l	25.0	ND	104	70-130		
tert-Butylbenzene	25.4	0.50	ug/l	25.0	ND	102	70-130		
Carbon disulfide	26.7	0.50	ug/l	25.0	0.170	106	56-132		
Carbon tetrachloride	28.8	0.50	ug/l	25.0	ND	115	76-131		
Chlorobenzene	25.1	0.50	ug/l	25.0	ND	100	70-130		
Chloroethane	26.8	1.0	ug/l	25.0	ND	107	67-134		
Chloroform	25.8	0.50	ug/l	25.0	ND	103	70-130		
Chloromethane	22.4	1.0	ug/l	25.0	ND	90	50-135		
2-Chlorotoluene	24.6	0.50	ug/l	25.0	ND	98	70-130		
4-Chlorotoluene	26.8	0.50	ug/l	25.0	ND	107	70-130		
Dibromochloromethane	24.2	0.50	ug/l	25.0	ND	97	70-130		
1,2-Dibromo-3-chloropropane	27.1	2.5	ug/l	25.0	ND	108	60-135		
1,2-Dibromoethane (EDB)	25.9	0.50	ug/l	25.0	ND	104	70-130		
Dibromomethane	27.5	0.50	ug/l	25.0	ND	110	70-130		
1,2-Dichlorobenzene	26.7	0.50	ug/l	25.0	ND	107	70-130		
1,3-Dichlorobenzene	27.2	0.50	ug/l	25.0	ND	109	70-130		
1,4-Dichlorobenzene	26.4	0.50	ug/l	25.0	ND	106	70-130		
Dichlorodifluoromethane	23.0	0.50	ug/l	25.0	ND	92	36-150		
1,1-Dichloroethane	26.1	0.50	ug/l	25.0	ND	104	70-130		
1,2-Dichloroethane	26.8	0.50	ug/l	25.0	ND	107	68-143		
1,1-Dichloroethene	23.4	0.50	ug/l	25.0	ND	93	70-130		
cis-1,2-Dichloroethene	24.1	0.50	ug/l	25.0	ND	96	70-130		
trans-1,2-Dichloroethene	26.6	0.50	ug/l	25.0	ND	106	70-130		
1,2-Dichloropropane	27.3	0.50	ug/l	25.0	ND	109	70-130		
1,3-Dichloropropane	26.5	0.50	ug/l	25.0	ND	106	70-130		
2,2-Dichloropropane	25.9	1.0	ug/l	25.0	ND	104	66-130		

TestAmerica Phoenix

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VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0246 Extracted: 03/07/11										
Matrix Spike Analyzed: 03/07/2011 (11C0246-MS1)					Source: PUC0073-06RE1					
1,1-Dichloropropene	27.3	0.50	ug/l	25.0	ND	109	70-130			
cis-1,3-Dichloropropene	28.3	0.50	ug/l	25.0	ND	113	70-130			
trans-1,3-Dichloropropene	25.2	0.50	ug/l	25.0	ND	101	71-132			
Ethylbenzene	26.1	0.50	ug/l	25.0	ND	104	70-130			
Hexachlorobutadiene	28.5	1.0	ug/l	25.0	ND	114	66-129			
2-Hexanone	23.1	2.5	ug/l	25.0	ND	92	18-150			
Iodomethane	26.0	2.5	ug/l	25.0	ND	104	47-141			
Isopropylbenzene	27.6	0.50	ug/l	25.0	ND	110	78-137			
p-Isopropyltoluene	28.4	0.50	ug/l	25.0	ND	114	70-130			
Methylene Chloride	22.6	1.0	ug/l	25.0	0.110	90	74-132			
4-Methyl-2-pentanone (MIBK)	30.7	2.5	ug/l	25.0	ND	123	56-145			
Methyl-tert-butyl Ether (MTBE)	27.2	0.50	ug/l	25.0	ND	109	67-138			
Naphthalene	25.0	2.5	ug/l	25.0	ND	100	54-135			
n-Propylbenzene	26.6	0.50	ug/l	25.0	ND	107	70-130			
Styrene	23.7	0.50	ug/l	25.0	ND	95	51-123			
1,1,1,2-Tetrachloroethane	26.9	0.50	ug/l	25.0	ND	108	70-130			
1,1,2,2-Tetrachloroethane	27.3	0.50	ug/l	25.0	ND	109	69-133			
Tetrachloroethene	26.3	0.50	ug/l	25.0	ND	105	70-130			
Toluene	25.6	0.50	ug/l	25.0	ND	103	70-130			
1,2,3-Trichlorobenzene	29.3	1.0	ug/l	25.0	ND	117	70-130			
1,2,4-Trichlorobenzene	27.0	1.0	ug/l	25.0	ND	108	66-126			
1,1,1-Trichloroethane	26.5	0.50	ug/l	25.0	ND	106	76-132			
1,1,2-Trichloroethane	27.6	0.50	ug/l	25.0	ND	110	70-130			
Trichloroethene	26.2	0.50	ug/l	25.0	ND	105	70-130			
Trichlorofluoromethane	28.9	0.50	ug/l	25.0	ND	115	74-150			
1,2,3-Trichloropropane	25.9	1.0	ug/l	25.0	ND	104	70-130			
1,2,4-Trimethylbenzene	26.3	0.50	ug/l	25.0	ND	105	70-130			
1,3,5-Trimethylbenzene	25.5	0.50	ug/l	25.0	ND	102	61-138			
Vinyl Acetate	45.5	1.0	ug/l	25.0	ND	182	50-150			NI
Vinyl chloride	23.4	0.50	ug/l	25.0	ND	94	58-139			
Xylenes, Total	52.8	1.0	ug/l	50.0	ND	106	70-130			
Surrogate: Dibromofluoromethane	26.5		ug/l	25.0		106	70-130			
Surrogate: Toluene-d8	26.6		ug/l	25.0		107	70-130			
Surrogate: 4-Bromofluorobenzene	27.6		ug/l	25.0		110	70-130			

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VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0246 Extracted: 03/07/11										
Matrix Spike Dup Analyzed: 03/07/2011 (11C0246-MSD1)					Source: PUC0073-06RE1					
Acetone	11.5	10	ug/l	25.0	ND	46	10-150	10	35	
Benzene	25.2	0.50	ug/l	25.0	ND	101	70-130	1	20	
Bromobenzene	26.1	0.50	ug/l	25.0	ND	105	70-130	1	20	
Bromochloromethane	24.9	0.50	ug/l	25.0	ND	99	70-130	1	20	
Bromodichloromethane	27.4	0.50	ug/l	25.0	ND	110	70-130	2	20	
Bromoform	23.7	1.0	ug/l	25.0	ND	95	62-126	5	20	
Bromomethane	23.3	1.0	ug/l	25.0	ND	93	55-136	3	24	
2-Butanone (MEK)	18.6	2.5	ug/l	25.0	ND	74	22-150	4	31	
n-Butylbenzene	27.9	0.50	ug/l	25.0	ND	112	70-130	1	20	
sec-Butylbenzene	28.0	0.50	ug/l	25.0	ND	112	70-130	8	20	
tert-Butylbenzene	28.1	0.50	ug/l	25.0	ND	112	70-130	10	20	
Carbon disulfide	26.7	0.50	ug/l	25.0	0.170	106	56-132	0.07	20	
Carbon tetrachloride	29.6	0.50	ug/l	25.0	ND	118	76-131	3	20	
Chlorobenzene	25.0	0.50	ug/l	25.0	ND	100	70-130	0.3	20	
Chloroethane	26.0	1.0	ug/l	25.0	ND	104	67-134	3	20	
Chloroform	25.4	0.50	ug/l	25.0	ND	101	70-130	2	20	
Chloromethane	23.1	1.0	ug/l	25.0	ND	92	50-135	3	20	
2-Chlorotoluene	26.3	0.50	ug/l	25.0	ND	105	70-130	7	20	
4-Chlorotoluene	28.7	0.50	ug/l	25.0	ND	115	70-130	7	20	
Dibromochloromethane	23.6	0.50	ug/l	25.0	ND	94	70-130	2	20	
1,2-Dibromo-3-chloropropane	24.3	2.5	ug/l	25.0	ND	97	60-135	11	29	
1,2-Dibromoethane (EDB)	25.1	0.50	ug/l	25.0	ND	100	70-130	3	20	
Dibromomethane	26.8	0.50	ug/l	25.0	ND	107	70-130	3	20	
1,2-Dichlorobenzene	27.6	0.50	ug/l	25.0	ND	110	70-130	4	20	
1,3-Dichlorobenzene	26.8	0.50	ug/l	25.0	ND	107	70-130	2	20	
1,4-Dichlorobenzene	27.5	0.50	ug/l	25.0	ND	110	70-130	4	20	
Dichlorodifluoromethane	24.1	0.50	ug/l	25.0	ND	96	36-150	5	22	
1,1-Dichloroethane	25.0	0.50	ug/l	25.0	ND	100	70-130	4	20	
1,2-Dichloroethane	24.5	0.50	ug/l	25.0	ND	98	68-143	9	20	
1,1-Dichloroethene	24.2	0.50	ug/l	25.0	ND	97	70-130	3	20	
cis-1,2-Dichloroethene	24.8	0.50	ug/l	25.0	ND	99	70-130	3	20	
trans-1,2-Dichloroethene	25.9	0.50	ug/l	25.0	ND	104	70-130	3	20	
1,2-Dichloropropane	26.1	0.50	ug/l	25.0	ND	104	70-130	5	20	
1,3-Dichloropropane	24.0	0.50	ug/l	25.0	ND	96	70-130	10	20	
2,2-Dichloropropane	25.7	1.0	ug/l	25.0	ND	103	66-130	0.7	20	

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VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0246 Extracted: 03/07/11										
Matrix Spike Dup Analyzed: 03/07/2011 (11C0246-MSD1)					Source: PUC0073-06RE1					
1,1-Dichloropropene	27.4	0.50	ug/l	25.0	ND	110	70-130	0.3	20	
cis-1,3-Dichloropropene	26.8	0.50	ug/l	25.0	ND	107	70-130	6	20	
trans-1,3-Dichloropropene	25.1	0.50	ug/l	25.0	ND	100	71-132	0.4	20	
Ethylbenzene	27.1	0.50	ug/l	25.0	ND	108	70-130	4	20	
Hexachlorobutadiene	31.1	1.0	ug/l	25.0	ND	125	66-129	9	21	
2-Hexanone	20.4	2.5	ug/l	25.0	ND	82	18-150	12	25	
Iodomethane	26.1	2.5	ug/l	25.0	ND	104	47-141	0.3	29	
Isopropylbenzene	30.1	0.50	ug/l	25.0	ND	121	78-137	9	20	
p-Isopropyltoluene	29.1	0.50	ug/l	25.0	ND	116	70-130	2	20	
Methylene Chloride	22.2	1.0	ug/l	25.0	0.110	89	74-132	2	20	
4-Methyl-2-pentanone (MIBK)	27.7	2.5	ug/l	25.0	ND	111	56-145	10	26	
Methyl-tert-butyl Ether (MTBE)	25.5	0.50	ug/l	25.0	ND	102	67-138	6	21	
Naphthalene	25.2	2.5	ug/l	25.0	ND	101	54-135	0.6	33	
n-Propylbenzene	29.0	0.50	ug/l	25.0	ND	116	70-130	8	20	
Styrene	24.0	0.50	ug/l	25.0	ND	96	51-123	1	21	
1,1,1,2-Tetrachloroethane	26.1	0.50	ug/l	25.0	ND	104	70-130	3	20	
1,1,2,2-Tetrachloroethane	26.4	0.50	ug/l	25.0	ND	105	69-133	4	20	
Tetrachloroethene	27.6	0.50	ug/l	25.0	ND	110	70-130	5	20	
Toluene	25.1	0.50	ug/l	25.0	ND	100	70-130	2	20	
1,2,3-Trichlorobenzene	30.5	1.0	ug/l	25.0	ND	122	70-130	4	20	
1,2,4-Trichlorobenzene	27.1	1.0	ug/l	25.0	ND	108	66-126	0.3	20	
1,1,1-Trichloroethane	27.5	0.50	ug/l	25.0	ND	110	76-132	4	20	
1,1,2-Trichloroethane	26.1	0.50	ug/l	25.0	ND	105	70-130	5	20	
Trichloroethene	26.4	0.50	ug/l	25.0	ND	106	70-130	1	20	
Trichlorofluoromethane	30.4	0.50	ug/l	25.0	ND	122	74-150	5	20	
1,2,3-Trichloropropane	27.3	1.0	ug/l	25.0	ND	109	70-130	5	20	
1,2,4-Trimethylbenzene	28.6	0.50	ug/l	25.0	ND	114	70-130	8	20	
1,3,5-Trimethylbenzene	28.2	0.50	ug/l	25.0	ND	113	61-138	10	33	
Vinyl Acetate	41.1	1.0	ug/l	25.0	ND	164	50-150	10	23	NI
Vinyl chloride	25.0	0.50	ug/l	25.0	ND	100	58-139	6	21	
Xylenes, Total	53.4	1.0	ug/l	50.0	ND	107	70-130	1	20	
Surrogate: Dibromofluoromethane	25.8		ug/l	25.0		103	70-130			
Surrogate: Toluene-d8	26.6		ug/l	25.0		106	70-130			
Surrogate: 4-Bromofluorobenzene	26.6		ug/l	25.0		107	70-130			

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018
Report Number: PUC0073

Sampled: 03/01/11
Received: 03/01/11

METHOD BLANK/QC DATA

1,4-DIOXANE BY GC/MS (EPA 5030B/8260B-SIM)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0032 Extracted: 03/02/11										
Blank Analyzed: 03/02/2011 (11C0032-BLK1)										
1,4-Dioxane	ND	1.0	ug/l							
Surrogate: Dibromofluoromethane	1.02		ug/l	1.00		102	70-140			
LCS Analyzed: 03/02/2011 (11C0032-BS1)										
1,4-Dioxane	9.66	1.0	ug/l	10.0		97	70-130			
Surrogate: Dibromofluoromethane	1.00		ug/l	1.00		100	70-140			
LCS Dup Analyzed: 03/02/2011 (11C0032-BSD1)										
1,4-Dioxane	9.98	1.0	ug/l	10.0		100	70-130	3	20	
Surrogate: Dibromofluoromethane	0.910		ug/l	1.00		91	70-140			
Matrix Spike Analyzed: 03/02/2011 (11C0032-MS1) Source: PUB1458-19										
1,4-Dioxane	20.6	1.0	ug/l	10.0	10.1	105	45-150			
Surrogate: Dibromofluoromethane	1.11		ug/l	1.00		111	70-140			
Matrix Spike Dup Analyzed: 03/02/2011 (11C0032-MSD1) Source: PUB1458-19										
1,4-Dioxane	20.2	1.0	ug/l	10.0	10.1	101	45-150	2	35	
Surrogate: Dibromofluoromethane	0.950		ug/l	1.00		95	70-140			
Batch: 11C0084 Extracted: 03/03/11										
Blank Analyzed: 03/03/2011 (11C0084-BLK1)										
1,4-Dioxane	ND	1.0	ug/l							
Surrogate: Dibromofluoromethane	1.02		ug/l	1.00		102	70-140			
LCS Analyzed: 03/03/2011 (11C0084-BS1)										
1,4-Dioxane	10.0	1.0	ug/l	10.0		100	70-130			
Surrogate: Dibromofluoromethane	1.11		ug/l	1.00		111	70-140			

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 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC0073

Sampled: 03/01/11

Received: 03/01/11

METHOD BLANK/QC DATA

1,4-DIOXANE BY GC/MS (EPA 5030B/8260B-SIM)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0084 Extracted: 03/03/11										
LCS Dup Analyzed: 03/03/2011 (11C0084-BSD1)										
1,4-Dioxane	9.91	1.0	ug/l	10.0		99	70-130	1	20	
Surrogate: Dibromofluoromethane	0.980		ug/l	1.00		98	70-140			
Matrix Spike Analyzed: 03/03/2011 (11C0084-MS1)										
					Source: PUC0073-06					
1,4-Dioxane	10.1	1.0	ug/l	10.0	ND	101	45-150			
Surrogate: Dibromofluoromethane	1.10		ug/l	1.00		110	70-140			
Matrix Spike Dup Analyzed: 03/03/2011 (11C0084-MSD1)										
					Source: PUC0073-06					
1,4-Dioxane	9.65	1.0	ug/l	10.0	ND	96	45-150	5	35	
Surrogate: Dibromofluoromethane	0.890		ug/l	1.00		89	70-140			

TestAmerica Phoenix

Carlene McCutcheon
 Project Manager

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Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC0073

Sampled: 03/01/11

Received: 03/01/11

METHOD BLANK/QC DATA

TOTAL METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 11C0056 Extracted: 03/02/11										
Blank Analyzed: 03/03/2011 (11C0056-BLK1)										
Mercury	ND	0.00020	mg/l							
LCS Analyzed: 03/03/2011 (11C0056-BS1)										
Mercury	0.00980	0.00020	mg/l	0.0100		98	85-115			
LCS Dup Analyzed: 03/03/2011 (11C0056-BSD1)										
Mercury	0.00987	0.00020	mg/l	0.0100		99	85-115	0.7	20	
Matrix Spike Analyzed: 03/03/2011 (11C0056-MS1)										
Mercury	0.00980	0.00020	mg/l	0.0100	ND	98	70-130			
Matrix Spike Analyzed: 03/03/2011 (11C0056-MS2)										
Mercury	0.00998	0.00020	mg/l	0.0100	ND	100	70-130			
Matrix Spike Dup Analyzed: 03/03/2011 (11C0056-MSD1)										
Mercury	0.00983	0.00020	mg/l	0.0100	ND	98	70-130	0.4	20	
Matrix Spike Dup Analyzed: 03/03/2011 (11C0056-MSD2)										
Mercury	0.00940	0.00020	mg/l	0.0100	ND	94	70-130	6	20	

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PUC0073 <Page 42 of 47>

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Attention: Gregory Guimond

Project ID: UPCO/3994018
Report Number: PUC0073

Sampled: 03/01/11
Received: 03/01/11

METHOD BLANK/QC DATA

TOTAL METALS BY ICP/MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0072 Extracted: 03/02/11										
Blank Analyzed: 03/04/2011 (11C0072-BLK1)										
Arsenic	ND	0.0010	mg/l							
Barium	ND	0.0010	mg/l							
Cadmium	ND	0.0010	mg/l							
Chromium	ND	0.0010	mg/l							
Lead	ND	0.0010	mg/l							
Selenium	ND	0.0020	mg/l							
Silver	ND	0.0010	mg/l							
LCS Analyzed: 03/04/2011 (11C0072-BS1)										
Arsenic	0.0960	0.0010	mg/l	0.100		96	85-115			
Barium	0.102	0.0010	mg/l	0.100		102	85-115			
Cadmium	0.103	0.0010	mg/l	0.100		103	85-115			
Chromium	0.0955	0.0010	mg/l	0.100		95	85-115			
Lead	0.0986	0.0010	mg/l	0.100		99	85-115			
Selenium	0.0950	0.0020	mg/l	0.100		95	85-115			
Silver	0.102	0.0010	mg/l	0.100		102	85-115			
LCS Dup Analyzed: 03/04/2011 (11C0072-BSD1)										
Arsenic	0.0949	0.0010	mg/l	0.100		95	85-115	1	20	
Barium	0.100	0.0010	mg/l	0.100		100	85-115	1	20	
Cadmium	0.100	0.0010	mg/l	0.100		100	85-115	3	20	
Chromium	0.0950	0.0010	mg/l	0.100		95	85-115	0.4	20	
Lead	0.0984	0.0010	mg/l	0.100		98	85-115	0.2	20	
Selenium	0.0919	0.0020	mg/l	0.100		92	85-115	3	20	
Silver	0.0993	0.0010	mg/l	0.100		99	85-115	2	20	
Matrix Spike Analyzed: 03/04/2011 (11C0072-MS1)										
					Source: PUC0073-03					
Arsenic	0.0998	0.0010	mg/l	0.100	0.00190	98	70-130			
Barium	0.401	0.0010	mg/l	0.100	0.293	108	70-130			
Cadmium	0.0993	0.0010	mg/l	0.100	0.000178	99	70-130			
Chromium	0.0972	0.0010	mg/l	0.100	0.000962	96	70-130			
Lead	0.105	0.0010	mg/l	0.100	0.0107	95	70-130			
Selenium	0.0955	0.0020	mg/l	0.100	ND	95	70-130			
Silver	0.0194	0.0010	mg/l	0.100	ND	19	70-130			M2

TestAmerica Phoenix

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 Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC0073

Sampled: 03/01/11
 Received: 03/01/11

METHOD BLANK/QC DATA

TOTAL METALS BY ICP/MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0072 Extracted: 03/02/11										
Matrix Spike Analyzed: 03/04/2011 (11C0072-MS2)					Source: PUC0073-06					
Arsenic	0.106	0.0010	mg/l	0.100	0.00845	97	70-130			
Barium	0.165	0.0010	mg/l	0.100	0.0617	103	70-130			
Cadmium	0.101	0.0010	mg/l	0.100	ND	101	70-130			
Chromium	0.0966	0.0010	mg/l	0.100	ND	97	70-130			
Lead	0.0970	0.0010	mg/l	0.100	0.000889	96	70-130			
Selenium	0.0952	0.0020	mg/l	0.100	ND	95	70-130			
Silver	0.0609	0.0010	mg/l	0.100	ND	61	70-130			M2
Matrix Spike Dup Analyzed: 03/04/2011 (11C0072-MSD1)					Source: PUC0073-03					
Arsenic	0.100	0.0010	mg/l	0.100	0.00190	98	70-130	0.3	15	
Barium	0.401	0.0010	mg/l	0.100	0.293	108	70-130	0.1	15	
Cadmium	0.0992	0.0010	mg/l	0.100	0.000178	99	70-130	0.09	15	
Chromium	0.0969	0.0010	mg/l	0.100	0.000962	96	70-130	0.3	15	
Lead	0.106	0.0010	mg/l	0.100	0.0107	96	70-130	0.9	15	
Selenium	0.0955	0.0020	mg/l	0.100	ND	96	70-130	0.06	15	
Silver	0.0188	0.0010	mg/l	0.100	ND	19	70-130	3	15	M2
Matrix Spike Dup Analyzed: 03/04/2011 (11C0072-MSD2)					Source: PUC0073-06					
Arsenic	0.106	0.0010	mg/l	0.100	0.00845	98	70-130	0.4	15	
Barium	0.164	0.0010	mg/l	0.100	0.0617	103	70-130	0.5	15	
Cadmium	0.100	0.0010	mg/l	0.100	ND	100	70-130	0.5	15	
Chromium	0.0965	0.0010	mg/l	0.100	ND	97	70-130	0.03	15	
Lead	0.0978	0.0010	mg/l	0.100	0.000889	97	70-130	0.8	15	
Selenium	0.0938	0.0020	mg/l	0.100	ND	94	70-130	1	15	
Silver	0.0631	0.0010	mg/l	0.100	ND	63	70-130	3	15	M2

TestAmerica Phoenix

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 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO/3994018
 Report Number: PUC0073

Sampled: 03/01/11
 Received: 03/01/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0299 Extracted: 03/08/11										
Blank Analyzed: 03/08/2011 (11C0299-BLK1)										
Perchlorate	ND	2.0	ug/l							
LCS Analyzed: 03/08/2011 (11C0299-BS1)										
Perchlorate	25.3	NA	ug/l	25.0		101	85-115			
LCS Dup Analyzed: 03/08/2011 (11C0299-BSD1)										
Perchlorate	25.4	NA	ug/l	25.0		101	85-115	0.5	15	
Duplicate Analyzed: 03/08/2011 (11C0299-DUP1)										
Perchlorate	ND	2.0	ug/l							
					Source: PUC0073-04					
Matrix Spike Analyzed: 03/08/2011 (11C0299-MS1)										
Perchlorate	23.8	2.0	ug/l	25.0	ND	95	80-120			
					Source: PUC0073-06					
Matrix Spike Dup Analyzed: 03/08/2011 (11C0299-MSD1)										
Perchlorate	23.9	2.0	ug/l	25.0	ND	96	80-120	0.4	15	
					Source: PUC0073-06					

TestAmerica Phoenix

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4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC0073

Sampled: 03/01/11

Received: 03/01/11

DATA QUALIFIERS AND DEFINITIONS

- L3** The associated blank spike recovery was above method acceptance limits.
- M2** Matrix spike recovery was low; the associated blank spike recovery was acceptable.
- N1** See case narrative.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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PUC0073 <Page 46 of 47>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC0073

Sampled: 03/01/11

Received: 03/01/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
E200.8	Water		X
E245.1	Water		X
EPA 314.0	Water		X
EPA 8260B-SIM	Water		X
EPA 8260B	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

TAL-0013-550 (10/10)

- Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
- Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
- Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Client Name / Address: Malcolm Pirnie Inc 4646 E Van Buren St Ste 400 Phoenix AZ 85008	Project / PO Number: VPCO/3994018
--	---

Project Manager: Greg Guntton	Phone Number: 602-244-1770
Sampler: Brian Brochman	Fax Number: 602-231-0131

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	Analysis Required						Special Instructions			
							314 perchlorate	200.8 PAAS AS, SE, CA, CrSe	2451 Hg	8260B VOCs	8260B SIMs	1,4-dioxane				
TB030111-1	Leak 11/20	VOA	1	-	-	HCl					X					PUC0073-01
TB030111-2	Leak 11/20	VOA	1	-	-	HCl						X				02
MW-14	GW	500 ml poly	1	3/1/11	08:09	None	X									03
MW-14	GW	500 ml poly	1	3/1/11	08:09	KN03		X	X							1
MW-14	GW	VOA	6	3/1/11	08:09	HCl				X	X					1
MW-15	GW	500 ml poly	1	3/1/11	10:02	None	X									04
MW-15	GW	500 ml poly	1	3/1/11	10:02	KN03		X	X							1
MW-15	GW	VOA	6	3/1/11	10:02	HCl				X	X					1
MW-8	GW	500 ml poly	1	3/1/11	11:24	None	X									05
MW-8	GW	500 ml poly	1	3/1/11	11:24	KN03		X	X							1
MW-8	GW	VOA	6	3/1/11	11:24	HCl				X	X					1
MW-9	GW	500 ml poly	1	3/1/11	13:16	None	X									06
MW-9	GW	500 ml poly	1	3/1/11	13:16	KN03		X	X							1
MW-9	GW	VOA	12	3/1/11	13:16	HCl				X	X					Extra volume for job specific MS/MSD

Relinquished By:	Date / Time: 3/1/11 17:45	Received By:	Date / Time:	Turnaround Time: (Check) same day _____ 72 hours _____ 24 hours _____ 5 days _____ 48 hours _____ normal <input checked="" type="checkbox"/>
Relinquished By:	Date / Time:	Received By:	Date / Time:	Sample Integrity: (Check) intact <input checked="" type="checkbox"/> on ice <input checked="" type="checkbox"/>
Relinquished By:	Date / Time:	Received in Lab By:	Date / Time: 3/1/11 17:45	

Note: By relinquishing samples to TestAmerica, 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.

0.8°C

THE LEADER IN ENVIRONMENTAL TESTING

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 [] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
 [] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Page 2 of 2

Client Name/Address: Malcolm Pirnie Inc 4646 E. Vanowen St Ste 400 Phoenix AZ 85005			Project/PO Number: UPCO/3994018				Analysis Required															
Project Manager: Greg Gurnard			Phone Number: 602-214-1770				314 perchlorate	200.6 PAs As Bagged 15%	245.1 Ag	8260B VOCs	8260B 4100 5 A-dioxane									Special Instructions		
Sampler: Brian Brochner			Fax Number: 602-237-0131																			
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives																
MW-12	GW	500ml poly	1	3/1/11	15:54	None	X															PUC0073-07
MW-12	GW	500ml poly	1	3/1/11	15:54	NW03		X	X													
MW-12	GW	10A	6	3/1/11	15:54	HCl				X	X											
BIB																						
Relinquished By: <i>[Signature]</i>			Date/Time: 3/1/11 17:45				Received By: <i>[Signature]</i>			Date/Time:				Turnaround Time: (Check)								
Relinquished By:			Date/Time:				Received By:			Date/Time:				same day _____ 72 hours _____								
Relinquished By:			Date/Time:				Received in Lab By: <i>[Signature]</i>			Date/Time: 3/1/11 1745				24 hours _____ 5 days _____ 48 hours _____ normal <u>X</u>								
Relinquished By:			Date/Time:				Received in Lab By:			Date/Time:				Sample Integrity: (Check) intact <u>X</u> on ice <u>X</u>								

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0.82

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO/3994018

Sampled: 03/02/11
Received: 03/02/11
Issued: 03/14/11 16:42

NELAP #01109CA Arizona DHS#AZ0728

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.
This entire report was reviewed and approved for release.*

CASE NARRATIVE

LABORATORY ID

PUC0174-01
PUC0174-02
PUC0174-03
PUC0174-04
PUC0174-05
PUC0174-06
PUC0174-07

CLIENT ID

TB030211-1
TB030211-2
MW-13
MW-5
MW-1
MW-2
FD030211-01

MATRIX

Water
Water
Water
Water
Water
Water
Water

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC0174

Sampled: 03/02/11
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SAMPLE RECEIPT: Samples were received intact, at 2°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

L3 EPA 8260B:Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.

N1 EPA 8260B:The Laboratory Control Sample / Laboratory Control Sample Duplicate as well as the Matrix Spike / Matrix Spike Duplicate recovered high and outside of acceptance limits for Vinyl Acetate. All associated samples are non-detect for this compound and therefore should not be impacted.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:



TestAmerica Phoenix

Carlene McCutcheon
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC0174

Sampled: 03/02/11

Received: 03/02/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC0174-01 (TB030211-1 - Water)				Sampled: 03/02/11				
Reporting Units: ug/l								
Acetone	EPA 8260B	11C0246	10	ND	1	3/7/2011	3/7/2011	
Benzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Bromobenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Bromochloromethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Bromodichloromethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Bromoform	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
Bromomethane	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
2-Butanone (MEK)	EPA 8260B	11C0246	2.5	ND	1	3/7/2011	3/7/2011	
n-Butylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
sec-Butylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
tert-Butylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Carbon disulfide	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Carbon tetrachloride	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Chlorobenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Chloroethane	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
Chloroform	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Chloromethane	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
2-Chlorotoluene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
4-Chlorotoluene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Dibromochloromethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11C0246	2.5	ND	1	3/7/2011	3/7/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Dibromomethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,2-Dichlorobenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,3-Dichlorobenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,4-Dichlorobenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Dichlorodifluoromethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,1-Dichloroethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,2-Dichloroethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,1-Dichloroethene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
cis-1,2-Dichloroethene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
trans-1,2-Dichloroethene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,2-Dichloropropane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,3-Dichloropropane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
2,2-Dichloropropane	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
1,1-Dichloropropene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
cis-1,3-Dichloropropene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
trans-1,3-Dichloropropene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Ethylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Hexachlorobutadiene	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	

TestAmerica Phoenix

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Project Manager

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4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC0174

Sampled: 03/02/11

Received: 03/02/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC0174-01 (TB030211-1 - Water) - cont.				Sampled: 03/02/11				
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11C0246	2.5	ND	1	3/7/2011	3/7/2011	
Iodomethane	EPA 8260B	11C0246	2.5	ND	1	3/7/2011	3/7/2011	
Isopropylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
p-Isopropyltoluene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Methylene Chloride	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11C0246	2.5	ND	1	3/7/2011	3/7/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Naphthalene	EPA 8260B	11C0246	2.5	ND	1	3/7/2011	3/7/2011	
n-Propylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Styrene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Tetrachloroethene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Toluene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
1,1,1-Trichloroethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,1,2-Trichloroethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Trichloroethene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Trichlorofluoromethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,2,3-Trichloropropane	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Vinyl Acetate	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	L3
Vinyl chloride	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Xylenes, Total	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
Surrogate: Dibromofluoromethane (70-130%)								107 %
Surrogate: Toluene-d8 (70-130%)								103 %
Surrogate: 4-Bromofluorobenzene (70-130%)								104 %

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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PUC0174 <Page 4 of 37>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC0174

Sampled: 03/02/11

Received: 03/02/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC0174-03 (MW-13 - Water)				Sampled: 03/02/11				
Reporting Units: ug/l								
Acetone	EPA 8260B	11C0246	10	ND	1	3/7/2011	3/7/2011	
Benzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Bromobenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Bromochloromethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Bromodichloromethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Bromoform	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
Bromomethane	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
2-Butanone (MEK)	EPA 8260B	11C0246	2.5	ND	1	3/7/2011	3/7/2011	
n-Butylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
sec-Butylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
tert-Butylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Carbon disulfide	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Carbon tetrachloride	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Chlorobenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Chloroethane	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
Chloroform	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Chloromethane	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
2-Chlorotoluene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
4-Chlorotoluene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Dibromochloromethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11C0246	2.5	ND	1	3/7/2011	3/7/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Dibromomethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,2-Dichlorobenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,3-Dichlorobenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,4-Dichlorobenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Dichlorodifluoromethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,1-Dichloroethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,2-Dichloroethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,1-Dichloroethene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
cis-1,2-Dichloroethene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
trans-1,2-Dichloroethene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,2-Dichloropropane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,3-Dichloropropane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
2,2-Dichloropropane	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
1,1-Dichloropropene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
cis-1,3-Dichloropropene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
trans-1,3-Dichloropropene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Ethylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Hexachlorobutadiene	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC0174

Sampled: 03/02/11
Received: 03/02/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC0174-03 (MW-13 - Water) - cont.				Sampled: 03/02/11				
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11C0246	2.5	ND	1	3/7/2011	3/7/2011	
Iodomethane	EPA 8260B	11C0246	2.5	ND	1	3/7/2011	3/7/2011	
Isopropylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
p-Isopropyltoluene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Methylene Chloride	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11C0246	2.5	ND	1	3/7/2011	3/7/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Naphthalene	EPA 8260B	11C0246	2.5	ND	1	3/7/2011	3/7/2011	
n-Propylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Styrene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Tetrachloroethene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Toluene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
1,1,1-Trichloroethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,1,2-Trichloroethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Trichloroethene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Trichlorofluoromethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,2,3-Trichloropropane	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Vinyl Acetate	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	L3
Vinyl chloride	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Xylenes, Total	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
Surrogate: Dibromofluoromethane (70-130%)				108 %				
Surrogate: Toluene-d8 (70-130%)				105 %				
Surrogate: 4-Bromofluorobenzene (70-130%)				102 %				

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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PUC0174 <Page 6 of 37>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC0174

Sampled: 03/02/11

Received: 03/02/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC0174-04 (MW-5 - Water)				Sampled: 03/02/11				
Reporting Units: ug/l								
Acetone	EPA 8260B	11C0246	10	ND	1	3/7/2011	3/7/2011	
Benzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Bromobenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Bromochloromethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Bromodichloromethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Bromoform	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
Bromomethane	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
2-Butanone (MEK)	EPA 8260B	11C0246	2.5	ND	1	3/7/2011	3/7/2011	
n-Butylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
sec-Butylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
tert-Butylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Carbon disulfide	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Carbon tetrachloride	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Chlorobenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Chloroethane	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
Chloroform	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Chloromethane	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
2-Chlorotoluene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
4-Chlorotoluene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Dibromochloromethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11C0246	2.5	ND	1	3/7/2011	3/7/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Dibromomethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,2-Dichlorobenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,3-Dichlorobenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,4-Dichlorobenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Dichlorodifluoromethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,1-Dichloroethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,2-Dichloroethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,1-Dichloroethene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
cis-1,2-Dichloroethene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
trans-1,2-Dichloroethene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,2-Dichloropropane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,3-Dichloropropane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
2,2-Dichloropropane	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
1,1-Dichloropropene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
cis-1,3-Dichloropropene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
trans-1,3-Dichloropropene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Ethylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Hexachlorobutadiene	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC0174

Sampled: 03/02/11

Received: 03/02/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC0174-04 (MW-5 - Water) - cont.				Sampled: 03/02/11				
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11C0246	2.5	ND	1	3/7/2011	3/7/2011	
Iodomethane	EPA 8260B	11C0246	2.5	ND	1	3/7/2011	3/7/2011	
Isopropylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
p-Isopropyltoluene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Methylene Chloride	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11C0246	2.5	ND	1	3/7/2011	3/7/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Naphthalene	EPA 8260B	11C0246	2.5	ND	1	3/7/2011	3/7/2011	
n-Propylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Styrene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Tetrachloroethene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Toluene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
1,1,1-Trichloroethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,1,2-Trichloroethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Trichloroethene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Trichlorofluoromethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,2,3-Trichloropropane	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Vinyl Acetate	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	L3
Vinyl chloride	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Xylenes, Total	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
Surrogate: Dibromofluoromethane (70-130%)				110 %				
Surrogate: Toluene-d8 (70-130%)				98 %				
Surrogate: 4-Bromofluorobenzene (70-130%)				107 %				

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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PUC0174 <Page 8 of 37>

ARCADIS U.S., Inc. - Phoenix
 4646 E Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC0174

Sampled: 03/02/11
 Received: 03/02/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC0174-05 (MW-1 - Water)						Sampled: 03/02/11		
Reporting Units: ug/l								
Acetone	EPA 8260B	11C0246	10	ND	1	3/7/2011	3/7/2011	
Benzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Bromobenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Bromochloromethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Bromodichloromethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Bromoform	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
Bromomethane	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
2-Butanone (MEK)	EPA 8260B	11C0246	2.5	ND	1	3/7/2011	3/7/2011	
n-Butylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
sec-Butylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
tert-Butylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Carbon disulfide	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Carbon tetrachloride	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Chlorobenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Chloroethane	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
Chloroform	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Chloromethane	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
2-Chlorotoluene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
4-Chlorotoluene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Dibromochloromethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11C0246	2.5	ND	1	3/7/2011	3/7/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Dibromomethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,2-Dichlorobenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,3-Dichlorobenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,4-Dichlorobenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Dichlorodifluoromethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,1-Dichloroethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,2-Dichloroethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,1-Dichloroethene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
cis-1,2-Dichloroethene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
trans-1,2-Dichloroethene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,2-Dichloropropane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,3-Dichloropropane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
2,2-Dichloropropane	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
1,1-Dichloropropene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
cis-1,3-Dichloropropene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
trans-1,3-Dichloropropene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Ethylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Hexachlorobutadiene	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	

TestAmerica Phoenix

Carlene McCutcheon
 Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC0174

Sampled: 03/02/11

Received: 03/02/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC0174-05 (MW-1 - Water) - cont.				Sampled: 03/02/11				
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11C0246	2.5	ND	1	3/7/2011	3/7/2011	
Iodomethane	EPA 8260B	11C0246	2.5	ND	1	3/7/2011	3/7/2011	
Isopropylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
p-Isopropyltoluene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Methylene Chloride	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11C0246	2.5	ND	1	3/7/2011	3/7/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Naphthalene	EPA 8260B	11C0246	2.5	ND	1	3/7/2011	3/7/2011	
n-Propylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Styrene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Tetrachloroethene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Toluene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
1,1,1-Trichloroethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,1,2-Trichloroethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Trichloroethene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Trichlorofluoromethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,2,3-Trichloropropane	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Vinyl Acetate	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	L3
Vinyl chloride	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Xylenes, Total	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
Surrogate: Dibromofluoromethane (70-130%)								119 %
Surrogate: Toluene-d8 (70-130%)								106 %
Surrogate: 4-Bromofluorobenzene (70-130%)								105 %

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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PUC0174 <Page 10 of 37>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC0174

Sampled: 03/02/11

Received: 03/02/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC0174-06 (MW-2 - Water)				Sampled: 03/02/11				
Reporting Units: ug/l								
Acetone	EPA 8260B	11C0246	10	ND	1	3/7/2011	3/7/2011	
Benzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Bromobenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Bromochloromethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Bromodichloromethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Bromoform	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
Bromomethane	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
2-Butanone (MEK)	EPA 8260B	11C0246	2.5	ND	1	3/7/2011	3/7/2011	
n-Butylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
sec-Butylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
tert-Butylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Carbon disulfide	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Carbon tetrachloride	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Chlorobenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Chloroethane	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
Chloroform	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Chloromethane	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
2-Chlorotoluene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
4-Chlorotoluene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Dibromochloromethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11C0246	2.5	ND	1	3/7/2011	3/7/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Dibromomethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,2-Dichlorobenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,3-Dichlorobenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,4-Dichlorobenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Dichlorodifluoromethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,1-Dichloroethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,2-Dichloroethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,1-Dichloroethene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
cis-1,2-Dichloroethene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
trans-1,2-Dichloroethene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,2-Dichloropropane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,3-Dichloropropane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
2,2-Dichloropropane	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
1,1-Dichloropropene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
cis-1,3-Dichloropropene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
trans-1,3-Dichloropropene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Ethylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Hexachlorobutadiene	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC0174

Sampled: 03/02/11

Received: 03/02/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC0174-06 (MW-2 - Water) - cont.				Sampled: 03/02/11				
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11C0246	2.5	ND	1	3/7/2011	3/7/2011	
Iodomethane	EPA 8260B	11C0246	2.5	ND	1	3/7/2011	3/7/2011	
Isopropylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
p-Isopropyltoluene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Methylene Chloride	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11C0246	2.5	ND	1	3/7/2011	3/7/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Naphthalene	EPA 8260B	11C0246	2.5	ND	1	3/7/2011	3/7/2011	
n-Propylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Styrene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Tetrachloroethene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Toluene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
1,1,1-Trichloroethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,1,2-Trichloroethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Trichloroethene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Trichlorofluoromethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,2,3-Trichloropropane	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Vinyl Acetate	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	L3
Vinyl chloride	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Xylenes, Total	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
Surrogate: Dibromofluoromethane (70-130%)								114 %
Surrogate: Toluene-d8 (70-130%)								102 %
Surrogate: 4-Bromofluorobenzene (70-130%)								98 %

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Carlene McCutcheon
Project Manager

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PUC0174 <Page 12 of 37>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC0174

Sampled: 03/02/11

Received: 03/02/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC0174-07 (FD030211-01 - Water)				Sampled: 03/02/11				
Reporting Units: ug/l								
Acetone	EPA 8260B	11C0246	10	ND	1	3/7/2011	3/7/2011	
Benzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Bromobenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Bromochloromethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Bromodichloromethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Bromoform	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
Bromomethane	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
2-Butanone (MEK)	EPA 8260B	11C0246	2.5	ND	1	3/7/2011	3/7/2011	
n-Butylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
sec-Butylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
tert-Butylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Carbon disulfide	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Carbon tetrachloride	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Chlorobenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Chloroethane	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
Chloroform	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Chloromethane	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
2-Chlorotoluene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
4-Chlorotoluene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Dibromochloromethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11C0246	2.5	ND	1	3/7/2011	3/7/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Dibromomethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,2-Dichlorobenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,3-Dichlorobenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,4-Dichlorobenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Dichlorodifluoromethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,1-Dichloroethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,2-Dichloroethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,1-Dichloroethene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
cis-1,2-Dichloroethene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
trans-1,2-Dichloroethene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,2-Dichloropropane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,3-Dichloropropane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
2,2-Dichloropropane	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
1,1-Dichloropropene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
cis-1,3-Dichloropropene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
trans-1,3-Dichloropropene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Ethylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Hexachlorobutadiene	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	

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Carlene McCutcheon
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC0174

Sampled: 03/02/11

Received: 03/02/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC0174-07 (FD030211-01 - Water) - cont.				Sampled: 03/02/11				
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11C0246	2.5	ND	1	3/7/2011	3/7/2011	
Iodomethane	EPA 8260B	11C0246	2.5	ND	1	3/7/2011	3/7/2011	
Isopropylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
p-Isopropyltoluene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Methylene Chloride	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11C0246	2.5	ND	1	3/7/2011	3/7/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Naphthalene	EPA 8260B	11C0246	2.5	ND	1	3/7/2011	3/7/2011	
n-Propylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Styrene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Tetrachloroethene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Toluene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
1,1,1-Trichloroethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,1,2-Trichloroethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Trichloroethene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Trichlorofluoromethane	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,2,3-Trichloropropane	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Vinyl Acetate	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	L3
Vinyl chloride	EPA 8260B	11C0246	0.50	ND	1	3/7/2011	3/7/2011	
Xylenes, Total	EPA 8260B	11C0246	1.0	ND	1	3/7/2011	3/7/2011	
Surrogate: Dibromofluoromethane (70-130%)								121 %
Surrogate: Toluene-d8 (70-130%)								107 %
Surrogate: 4-Bromofluorobenzene (70-130%)								103 %

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Carlene McCutcheon
Project Manager

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PUC0174 <Page 14 of 37>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC0174

Sampled: 03/02/11

Received: 03/02/11

1,4-DIOXANE BY GC/MS (EPA 5030B/8260B-SIM)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC0174-02 (TB030211-2 - Water)				Sampled: 03/02/11				
Reporting Units: ug/l								
1,4-Dioxane	EPA 8260B-SIM	11C0084	1.0	ND	1	3/3/2011	3/3/2011	
<i>Surrogate: Dibromofluoromethane (70-140%)</i>				101 %				
Sample ID: PUC0174-03 (MW-13 - Water)				Sampled: 03/02/11				
Reporting Units: ug/l								
1,4-Dioxane	EPA 8260B-SIM	11C0084	1.0	ND	1	3/3/2011	3/3/2011	
<i>Surrogate: Dibromofluoromethane (70-140%)</i>				93 %				
Sample ID: PUC0174-04 (MW-5 - Water)				Sampled: 03/02/11				
Reporting Units: ug/l								
1,4-Dioxane	EPA 8260B-SIM	11C0084	1.0	ND	1	3/3/2011	3/3/2011	
<i>Surrogate: Dibromofluoromethane (70-140%)</i>				87 %				
Sample ID: PUC0174-05 (MW-1 - Water)				Sampled: 03/02/11				
Reporting Units: ug/l								
1,4-Dioxane	EPA 8260B-SIM	11C0084	1.0	ND	1	3/3/2011	3/3/2011	
<i>Surrogate: Dibromofluoromethane (70-140%)</i>				113 %				
Sample ID: PUC0174-06 (MW-2 - Water)				Sampled: 03/02/11				
Reporting Units: ug/l								
1,4-Dioxane	EPA 8260B-SIM	11C0084	1.0	2.6	1	3/3/2011	3/3/2011	
<i>Surrogate: Dibromofluoromethane (70-140%)</i>				92 %				
Sample ID: PUC0174-07 (FD030211-01 - Water)				Sampled: 03/02/11				
Reporting Units: ug/l								
1,4-Dioxane	EPA 8260B-SIM	11C0084	1.0	2.6	1	3/3/2011	3/3/2011	
<i>Surrogate: Dibromofluoromethane (70-140%)</i>				115 %				

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PUC0174 <Page 15 of 37>

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 4646 E Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC0174

Sampled: 03/02/11

Received: 03/02/11

TOTAL METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC0174-03 (MW-13 - Water)				Sampled: 03/02/11				
Reporting Units: mg/l								
Mercury	E245.1	11C0134	0.00020	ND	1	3/3/2011	3/4/2011	
Sample ID: PUC0174-04 (MW-5 - Water)				Sampled: 03/02/11				
Reporting Units: mg/l								
Mercury	E245.1	11C0134	0.00020	ND	1	3/3/2011	3/4/2011	
Sample ID: PUC0174-05 (MW-1 - Water)				Sampled: 03/02/11				
Reporting Units: mg/l								
Mercury	E245.1	11C0134	0.00020	ND	1	3/3/2011	3/4/2011	
Sample ID: PUC0174-06 (MW-2 - Water)				Sampled: 03/02/11				
Reporting Units: mg/l								
Mercury	E245.1	11C0134	0.00020	ND	1	3/3/2011	3/4/2011	
Sample ID: PUC0174-07 (FD030211-01 - Water)				Sampled: 03/02/11				
Reporting Units: mg/l								
Mercury	E245.1	11C0134	0.00020	ND	1	3/3/2011	3/4/2011	

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 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC0174

Sampled: 03/02/11
 Received: 03/02/11

TOTAL METALS BY ICP/MS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC0174-03 (MW-13 - Water)				Sampled: 03/02/11				
Reporting Units: mg/l								
Arsenic	E200.8	11C0143	0.0010	0.0048	1	3/3/2011	3/4/2011	
Barium	E200.8	11C0143	0.0010	0.055	1	3/3/2011	3/4/2011	
Cadmium	E200.8	11C0143	0.0010	ND	1	3/3/2011	3/4/2011	
Chromium	E200.8	11C0143	0.0010	ND	1	3/3/2011	3/4/2011	
Lead	E200.8	11C0143	0.0010	0.0028	1	3/3/2011	3/4/2011	
Selenium	E200.8	11C0143	0.0020	ND	1	3/3/2011	3/4/2011	
Silver	E200.8	11C0143	0.0010	ND	1	3/3/2011	3/4/2011	
Sample ID: PUC0174-04 (MW-5 - Water)				Sampled: 03/02/11				
Reporting Units: mg/l								
Arsenic	E200.8	11C0143	0.0010	0.010	1	3/3/2011	3/4/2011	
Barium	E200.8	11C0143	0.0010	0.052	1	3/3/2011	3/4/2011	
Cadmium	E200.8	11C0143	0.0010	ND	1	3/3/2011	3/4/2011	
Chromium	E200.8	11C0143	0.0010	0.030	1	3/3/2011	3/4/2011	
Lead	E200.8	11C0143	0.0010	0.0033	1	3/3/2011	3/4/2011	
Selenium	E200.8	11C0143	0.0020	ND	1	3/3/2011	3/4/2011	
Silver	E200.8	11C0143	0.0010	ND	1	3/3/2011	3/4/2011	
Sample ID: PUC0174-05 (MW-1 - Water)				Sampled: 03/02/11				
Reporting Units: mg/l								
Arsenic	E200.8	11C0143	0.0010	0.011	1	3/3/2011	3/4/2011	
Barium	E200.8	11C0143	0.0010	0.042	1	3/3/2011	3/4/2011	
Cadmium	E200.8	11C0143	0.0010	ND	1	3/3/2011	3/4/2011	
Chromium	E200.8	11C0143	0.0010	0.0025	1	3/3/2011	3/4/2011	
Lead	E200.8	11C0143	0.0010	0.0029	1	3/3/2011	3/4/2011	
Selenium	E200.8	11C0143	0.0020	ND	1	3/3/2011	3/4/2011	
Silver	E200.8	11C0143	0.0010	ND	1	3/3/2011	3/4/2011	

TestAmerica Phoenix

Carlene McCutcheon
 Project Manager

ARCADIS U.S., Inc. - Phoenix
 4646 E Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC0174

Sampled: 03/02/11
 Received: 03/02/11

TOTAL METALS BY ICP/MS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC0174-06 (MW-2 - Water)				Sampled: 03/02/11				
Reporting Units: mg/l								
Arsenic	E200.8	11C0143	0.0010	0.0086	1	3/3/2011	3/4/2011	
Barium	E200.8	11C0143	0.0010	0.070	1	3/3/2011	3/4/2011	
Cadmium	E200.8	11C0143	0.0010	ND	1	3/3/2011	3/4/2011	
Chromium	E200.8	11C0143	0.0010	0.014	1	3/3/2011	3/4/2011	
Lead	E200.8	11C0143	0.0010	0.010	1	3/3/2011	3/4/2011	
Selenium	E200.8	11C0143	0.0020	ND	1	3/3/2011	3/4/2011	
Silver	E200.8	11C0143	0.0010	ND	1	3/3/2011	3/4/2011	
Sample ID: PUC0174-07 (FD030211-01 - Water)				Sampled: 03/02/11				
Reporting Units: mg/l								
Arsenic	E200.8	11C0143	0.0010	0.0087	1	3/3/2011	3/4/2011	
Barium	E200.8	11C0143	0.0010	0.071	1	3/3/2011	3/4/2011	
Cadmium	E200.8	11C0143	0.0010	ND	1	3/3/2011	3/4/2011	
Chromium	E200.8	11C0143	0.0010	0.014	1	3/3/2011	3/4/2011	
Lead	E200.8	11C0143	0.0010	0.0082	1	3/3/2011	3/4/2011	
Selenium	E200.8	11C0143	0.0020	ND	1	3/3/2011	3/4/2011	
Silver	E200.8	11C0143	0.0010	ND	1	3/3/2011	3/4/2011	

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 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC0174

Sampled: 03/02/11

Received: 03/02/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC0174-03 (MW-13 - Water)				Sampled: 03/02/11				
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11C0299	2.0	6.4	1	3/8/2011	3/8/2011	
Sample ID: PUC0174-04 (MW-5 - Water)				Sampled: 03/02/11				
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11C0299	2.0	20	1	3/8/2011	3/8/2011	
Sample ID: PUC0174-05 (MW-1 - Water)				Sampled: 03/02/11				
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11C0390	10	67	5	3/10/2011	3/10/2011	
Sample ID: PUC0174-06 (MW-2 - Water)				Sampled: 03/02/11				
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11C0390	10	87	5	3/10/2011	3/10/2011	
Sample ID: PUC0174-07 (FD030211-01 - Water)				Sampled: 03/02/11				
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11C0390	10	92	5	3/10/2011	3/10/2011	

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PUC0174 <Page 19 of 37>

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4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018
Report Number: PUC0174

Sampled: 03/02/11
Received: 03/02/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0246 Extracted: 03/07/11										
Blank Analyzed: 03/07/2011 (11C0246-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	0.50	ug/l							
Bromochloromethane	ND	0.50	ug/l							
Bromodichloromethane	ND	0.50	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
2-Butanone (MEK)	ND	2.5	ug/l							
n-Butylbenzene	ND	0.50	ug/l							
sec-Butylbenzene	ND	0.50	ug/l							
tert-Butylbenzene	ND	0.50	ug/l							
Carbon disulfide	ND	0.50	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	0.50	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	0.50	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	0.50	ug/l							
4-Chlorotoluene	ND	0.50	ug/l							
Dibromochloromethane	ND	0.50	ug/l							
1,2-Dibromo-3-chloropropane	ND	2.5	ug/l							
1,2-Dibromoethane (EDB)	ND	0.50	ug/l							
Dibromomethane	ND	0.50	ug/l							
1,2-Dichlorobenzene	ND	0.50	ug/l							
1,3-Dichlorobenzene	ND	0.50	ug/l							
1,4-Dichlorobenzene	ND	0.50	ug/l							
Dichlorodifluoromethane	ND	0.50	ug/l							
1,1-Dichloroethane	ND	0.50	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	0.50	ug/l							
cis-1,2-Dichloroethene	ND	0.50	ug/l							
trans-1,2-Dichloroethene	ND	0.50	ug/l							
1,2-Dichloropropane	ND	0.50	ug/l							
1,3-Dichloropropane	ND	0.50	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
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Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC0174

Sampled: 03/02/11

Received: 03/02/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD RPD	RPD Limit	Data Qualifiers
Batch: 11C0246 Extracted: 03/07/11									
Blank Analyzed: 03/07/2011 (11C0246-BLK1)									
1,1-Dichloropropene	ND	0.50	ug/l						
cis-1,3-Dichloropropene	ND	0.50	ug/l						
trans-1,3-Dichloropropene	ND	0.50	ug/l						
Ethylbenzene	ND	0.50	ug/l						
Hexachlorobutadiene	ND	1.0	ug/l						
2-Hexanone	ND	2.5	ug/l						
Iodomethane	ND	2.5	ug/l						
Isopropylbenzene	ND	0.50	ug/l						
p-Isopropyltoluene	ND	0.50	ug/l						
Methylene Chloride	ND	1.0	ug/l						
4-Methyl-2-pentanone (MIBK)	ND	2.5	ug/l						
Methyl-tert-butyl Ether (MTBE)	ND	0.50	ug/l						
Naphthalene	ND	2.5	ug/l						
n-Propylbenzene	ND	0.50	ug/l						
Styrene	ND	0.50	ug/l						
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l						
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l						
Tetrachloroethene	ND	0.50	ug/l						
Toluene	ND	0.50	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	0.50	ug/l						
1,1,2-Trichloroethane	ND	0.50	ug/l						
Trichloroethene	ND	0.50	ug/l						
Trichlorofluoromethane	ND	0.50	ug/l						
1,2,3-Trichloropropane	ND	1.0	ug/l						
1,2,4-Trimethylbenzene	ND	0.50	ug/l						
1,3,5-Trimethylbenzene	ND	0.50	ug/l						
Vinyl Acetate	ND	1.0	ug/l						
Vinyl chloride	ND	0.50	ug/l						
Xylenes, Total	ND	1.0	ug/l						
Surrogate: Dibromofluoromethane	25.6		ug/l	25.0		102		70-130	
Surrogate: Toluene-d8	25.2		ug/l	25.0		101		70-130	
Surrogate: 4-Bromofluorobenzene	25.4		ug/l	25.0		101		70-130	

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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ARCADIS U.S., Inc. - Phoenix
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Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC0174

Sampled: 03/02/11

Received: 03/02/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0246 Extracted: 03/07/11										
LCS Analyzed: 03/07/2011 (11C0246-BS1)										
Acetone	17.4	10	ug/l	25.0		70	30-150			
Benzene	25.0	0.50	ug/l	25.0		100	70-130			
Bromobenzene	26.4	0.50	ug/l	25.0		105	70-130			
Bromochloromethane	26.4	0.50	ug/l	25.0		105	70-130			
Bromodichloromethane	27.2	0.50	ug/l	25.0		109	70-130			
Bromoform	24.4	1.0	ug/l	25.0		98	67-122			
Bromomethane	24.0	1.0	ug/l	25.0		96	64-132			
2-Butanone (MEK)	24.2	2.5	ug/l	25.0		97	48-150			
n-Butylbenzene	26.3	0.50	ug/l	25.0		105	70-130			
sec-Butylbenzene	26.9	0.50	ug/l	25.0		108	70-130			
tert-Butylbenzene	26.8	0.50	ug/l	25.0		107	70-130			
Carbon disulfide	27.8	0.50	ug/l	25.0		111	61-126			
Carbon tetrachloride	28.1	0.50	ug/l	25.0		112	70-130			
Chlorobenzene	25.5	0.50	ug/l	25.0		102	70-130			
Chloroethane	27.6	1.0	ug/l	25.0		110	69-128			
Chloroform	25.9	0.50	ug/l	25.0		103	70-130			
Chloromethane	26.5	1.0	ug/l	25.0		106	56-131			
2-Chlorotoluene	24.7	0.50	ug/l	25.0		99	70-130			
4-Chlorotoluene	26.7	0.50	ug/l	25.0		107	70-130			
Dibromochloromethane	25.0	0.50	ug/l	25.0		100	70-130			
1,2-Dibromo-3-chloropropane	25.0	2.5	ug/l	25.0		100	63-129			
1,2-Dibromoethane (EDB)	26.7	0.50	ug/l	25.0		107	70-130			
Dibromomethane	26.9	0.50	ug/l	25.0		107	70-130			
1,2-Dichlorobenzene	26.9	0.50	ug/l	25.0		108	70-130			
1,3-Dichlorobenzene	26.4	0.50	ug/l	25.0		106	70-130			
1,4-Dichlorobenzene	26.6	0.50	ug/l	25.0		106	70-130			
Dichlorodifluoromethane	27.0	0.50	ug/l	25.0		108	42-150			
1,1-Dichloroethane	26.8	0.50	ug/l	25.0		107	70-130			
1,2-Dichloroethane	26.4	0.50	ug/l	25.0		106	72-133			
1,1-Dichloroethene	25.1	0.50	ug/l	25.0		100	70-130			
cis-1,2-Dichloroethene	25.6	0.50	ug/l	25.0		102	70-130			
trans-1,2-Dichloroethene	26.7	0.50	ug/l	25.0		107	70-130			
1,2-Dichloropropane	27.0	0.50	ug/l	25.0		108	70-130			
1,3-Dichloropropane	27.0	0.50	ug/l	25.0		108	70-130			
2,2-Dichloropropane	28.2	1.0	ug/l	25.0		113	70-130			

TestAmerica Phoenix

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Report Number: PUC0174

Sampled: 03/02/11

Received: 03/02/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 11C0246 Extracted: 03/07/11										
LCS Analyzed: 03/07/2011 (11C0246-BS1)										
1,1-Dichloropropene	26.8	0.50	ug/l	25.0		107	70-130			
cis-1,3-Dichloropropene	28.8	0.50	ug/l	25.0		115	70-130			
trans-1,3-Dichloropropene	25.7	0.50	ug/l	25.0		103	70-130			
Ethylbenzene	27.7	0.50	ug/l	25.0		111	70-130			
Hexachlorobutadiene	30.4	1.0	ug/l	25.0		121	70-130			
2-Hexanone	25.7	2.5	ug/l	25.0		103	44-150			
Iodomethane	26.7	2.5	ug/l	25.0		107	58-138			
Isopropylbenzene	28.7	0.50	ug/l	25.0		115	70-130			
p-Isopropyltoluene	28.3	0.50	ug/l	25.0		113	70-130			
Methylene Chloride	22.4	1.0	ug/l	25.0		90	70-130			
4-Methyl-2-pentanone (MIBK)	29.4	2.5	ug/l	25.0		117	61-142			
Methyl-tert-butyl Ether (MTBE)	28.5	0.50	ug/l	25.0		114	70-130			
Naphthalene	25.8	2.5	ug/l	25.0		103	65-129			
n-Propylbenzene	26.8	0.50	ug/l	25.0		107	70-130			
Styrene	25.0	0.50	ug/l	25.0		100	70-130			
1,1,1,2-Tetrachloroethane	29.0	0.50	ug/l	25.0		116	70-130			
1,1,2,2-Tetrachloroethane	26.2	0.50	ug/l	25.0		105	70-130			
Tetrachloroethene	28.5	0.50	ug/l	25.0		114	70-130			
Toluene	25.8	0.50	ug/l	25.0		103	70-130			
1,2,3-Trichlorobenzene	29.7	1.0	ug/l	25.0		119	70-130			
1,2,4-Trichlorobenzene	27.8	1.0	ug/l	25.0		111	70-130			
1,1,1-Trichloroethane	28.4	0.50	ug/l	25.0		114	70-130			
1,1,2-Trichloroethane	27.4	0.50	ug/l	25.0		109	70-130			
Trichloroethene	26.8	0.50	ug/l	25.0		107	70-130			
Trichlorofluoromethane	29.7	0.50	ug/l	25.0		119	78-149			
1,2,3-Trichloropropane	26.1	1.0	ug/l	25.0		105	70-130			
1,2,4-Trimethylbenzene	27.4	0.50	ug/l	25.0		110	70-130			
1,3,5-Trimethylbenzene	27.1	0.50	ug/l	25.0		108	70-130			
Vinyl Acetate	44.1	1.0	ug/l	25.0		176	57-149			L3
Vinyl chloride	27.0	0.50	ug/l	25.0		108	66-134			
Xylenes, Total	54.7	1.0	ug/l	50.0		109	70-130			
Surrogate: Dibromofluoromethane	27.6		ug/l	25.0		110	70-130			
Surrogate: Toluene-d8	27.0		ug/l	25.0		108	70-130			
Surrogate: 4-Bromofluorobenzene	28.7		ug/l	25.0		115	70-130			

TestAmerica Phoenix

Carlene McCutcheon
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Report Number: PUC0174

Sampled: 03/02/11

Received: 03/02/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0246 Extracted: 03/07/11										
LCS Dup Analyzed: 03/07/2011 (11C0246-BSD1)										
Acetone	19.5	10	ug/l	25.0		78	30-150	11	35	
Benzene	24.5	0.50	ug/l	25.0		98	70-130	2	20	
Bromobenzene	26.4	0.50	ug/l	25.0		105	70-130	0.04	20	
Bromochloromethane	26.2	0.50	ug/l	25.0		105	70-130	0.6	20	
Bromodichloromethane	26.9	0.50	ug/l	25.0		107	70-130	1	20	
Bromoform	24.4	1.0	ug/l	25.0		98	67-122	0.2	20	
Bromomethane	24.4	1.0	ug/l	25.0		98	64-132	2	20	
2-Butanone (MEK)	22.6	2.5	ug/l	25.0		90	48-150	7	33	
n-Butylbenzene	26.2	0.50	ug/l	25.0		105	70-130	0.3	20	
sec-Butylbenzene	25.6	0.50	ug/l	25.0		103	70-130	5	20	
tert-Butylbenzene	25.1	0.50	ug/l	25.0		101	70-130	6	20	
Carbon disulfide	26.8	0.50	ug/l	25.0		107	61-126	4	20	
Carbon tetrachloride	27.0	0.50	ug/l	25.0		108	70-130	4	20	
Chlorobenzene	26.2	0.50	ug/l	25.0		105	70-130	3	20	
Chloroethane	25.8	1.0	ug/l	25.0		103	69-128	7	20	
Chloroform	25.8	0.50	ug/l	25.0		103	70-130	0.3	20	
Chloromethane	24.5	1.0	ug/l	25.0		98	56-131	8	20	
2-Chlorotoluene	24.1	0.50	ug/l	25.0		97	70-130	2	20	
4-Chlorotoluene	25.6	0.50	ug/l	25.0		103	70-130	4	20	
Dibromochloromethane	25.6	0.50	ug/l	25.0		102	70-130	2	20	
1,2-Dibromo-3-chloropropane	25.8	2.5	ug/l	25.0		103	63-129	3	25	
1,2-Dibromoethane (EDB)	26.6	0.50	ug/l	25.0		107	70-130	0.3	20	
Dibromomethane	27.4	0.50	ug/l	25.0		109	70-130	2	20	
1,2-Dichlorobenzene	26.4	0.50	ug/l	25.0		106	70-130	2	20	
1,3-Dichlorobenzene	25.7	0.50	ug/l	25.0		103	70-130	3	20	
1,4-Dichlorobenzene	26.0	0.50	ug/l	25.0		104	70-130	2	20	
Dichlorodifluoromethane	23.9	0.50	ug/l	25.0		96	42-150	12	20	
1,1-Dichloroethane	25.8	0.50	ug/l	25.0		103	70-130	4	20	
1,2-Dichloroethane	26.9	0.50	ug/l	25.0		108	72-133	2	20	
1,1-Dichloroethene	23.8	0.50	ug/l	25.0		95	70-130	5	20	
cis-1,2-Dichloroethene	26.0	0.50	ug/l	25.0		104	70-130	2	20	
trans-1,2-Dichloroethene	26.3	0.50	ug/l	25.0		105	70-130	2	20	
1,2-Dichloropropane	26.1	0.50	ug/l	25.0		104	70-130	3	20	
1,3-Dichloropropane	25.5	0.50	ug/l	25.0		102	70-130	6	20	
2,2-Dichloropropane	25.4	1.0	ug/l	25.0		102	70-130	10	20	

TestAmerica Phoenix

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Report Number: PUC0174

Sampled: 03/02/11
Received: 03/02/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0246 Extracted: 03/07/11										
LCS Dup Analyzed: 03/07/2011 (11C0246-BSD1)										
1,1-Dichloropropene	26.5	0.50	ug/l	25.0		106	70-130	1	20	
cis-1,3-Dichloropropene	27.7	0.50	ug/l	25.0		111	70-130	4	20	
trans-1,3-Dichloropropene	24.9	0.50	ug/l	25.0		100	70-130	3	20	
Ethylbenzene	25.9	0.50	ug/l	25.0		104	70-130	7	20	
Hexachlorobutadiene	29.4	1.0	ug/l	25.0		118	70-130	3	20	
2-Hexanone	27.5	2.5	ug/l	25.0		110	44-150	7	31	
Iodomethane	26.3	2.5	ug/l	25.0		105	58-138	2	25	
Isopropylbenzene	27.2	0.50	ug/l	25.0		109	70-130	5	20	
p-Isopropyltoluene	25.7	0.50	ug/l	25.0		103	70-130	9	20	
Methylene Chloride	23.2	1.0	ug/l	25.0		93	70-130	4	20	
4-Methyl-2-pentanone (MIBK)	30.2	2.5	ug/l	25.0		121	61-142	3	22	
Methyl-tert-butyl Ether (MTBE)	28.7	0.50	ug/l	25.0		115	70-130	0.7	20	
Naphthalene	26.0	2.5	ug/l	25.0		104	65-129	0.6	20	
n-Propylbenzene	25.9	0.50	ug/l	25.0		104	70-130	3	20	
Styrene	24.3	0.50	ug/l	25.0		97	70-130	3	20	
1,1,1,2-Tetrachloroethane	27.5	0.50	ug/l	25.0		110	70-130	5	20	
1,1,2,2-Tetrachloroethane	27.4	0.50	ug/l	25.0		110	70-130	5	20	
Tetrachloroethene	26.8	0.50	ug/l	25.0		107	70-130	6	20	
Toluene	24.2	0.50	ug/l	25.0		97	70-130	7	20	
1,2,3-Trichlorobenzene	29.4	1.0	ug/l	25.0		118	70-130	0.9	20	
1,2,4-Trichlorobenzene	25.8	1.0	ug/l	25.0		103	70-130	7	20	
1,1,1-Trichloroethane	26.3	0.50	ug/l	25.0		105	70-130	8	20	
1,1,2-Trichloroethane	28.0	0.50	ug/l	25.0		112	70-130	2	20	
Trichloroethene	26.0	0.50	ug/l	25.0		104	70-130	3	20	
Trichlorofluoromethane	28.2	0.50	ug/l	25.0		113	78-149	5	20	
1,2,3-Trichloropropane	27.5	1.0	ug/l	25.0		110	70-130	5	20	
1,2,4-Trimethylbenzene	26.7	0.50	ug/l	25.0		107	70-130	3	20	
1,3,5-Trimethylbenzene	26.0	0.50	ug/l	25.0		104	70-130	4	20	
Vinyl Acetate	41.5	1.0	ug/l	25.0		166	57-149	6	21	L3
Vinyl chloride	25.0	0.50	ug/l	25.0		100	66-134	8	20	
Xylenes, Total	54.0	1.0	ug/l	50.0		108	70-130	1	20	
Surrogate: Dibromofluoromethane	27.3		ug/l	25.0		109	70-130			
Surrogate: Toluene-d8	26.9		ug/l	25.0		107	70-130			
Surrogate: 4-Bromofluorobenzene	28.4		ug/l	25.0		114	70-130			

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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ARCADIS U.S., Inc. - Phoenix
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Attention: Gregory Guimond

Project ID: UPCO/3994018
Report Number: PUC0174

Sampled: 03/02/11
Received: 03/02/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0246 Extracted: 03/07/11										
Matrix Spike Analyzed: 03/07/2011 (11C0246-MS1)					Source: PUC0073-06RE1					
Acetone	12.7	10	ug/l	25.0	ND	51	10-150			
Benzene	25.6	0.50	ug/l	25.0	ND	102	70-130			
Bromobenzene	26.5	0.50	ug/l	25.0	ND	106	70-130			
Bromochloromethane	25.2	0.50	ug/l	25.0	ND	101	70-130			
Bromodichloromethane	27.8	0.50	ug/l	25.0	ND	111	70-130			
Bromoform	25.0	1.0	ug/l	25.0	ND	100	62-126			
Bromomethane	24.0	1.0	ug/l	25.0	ND	96	55-136			
2-Butanone (MEK)	19.4	2.5	ug/l	25.0	ND	78	22-150			
n-Butylbenzene	28.3	0.50	ug/l	25.0	ND	113	70-130			
sec-Butylbenzene	25.9	0.50	ug/l	25.0	ND	104	70-130			
tert-Butylbenzene	25.4	0.50	ug/l	25.0	ND	102	70-130			
Carbon disulfide	26.7	0.50	ug/l	25.0	0.170	106	56-132			
Carbon tetrachloride	28.8	0.50	ug/l	25.0	ND	115	76-131			
Chlorobenzene	25.1	0.50	ug/l	25.0	ND	100	70-130			
Chloroethane	26.8	1.0	ug/l	25.0	ND	107	67-134			
Chloroform	25.8	0.50	ug/l	25.0	ND	103	70-130			
Chloromethane	22.4	1.0	ug/l	25.0	ND	90	50-135			
2-Chlorotoluene	24.6	0.50	ug/l	25.0	ND	98	70-130			
4-Chlorotoluene	26.8	0.50	ug/l	25.0	ND	107	70-130			
Dibromochloromethane	24.2	0.50	ug/l	25.0	ND	97	70-130			
1,2-Dibromo-3-chloropropane	27.1	2.5	ug/l	25.0	ND	108	60-135			
1,2-Dibromoethane (EDB)	25.9	0.50	ug/l	25.0	ND	104	70-130			
Dibromomethane	27.5	0.50	ug/l	25.0	ND	110	70-130			
1,2-Dichlorobenzene	26.7	0.50	ug/l	25.0	ND	107	70-130			
1,3-Dichlorobenzene	27.2	0.50	ug/l	25.0	ND	109	70-130			
1,4-Dichlorobenzene	26.4	0.50	ug/l	25.0	ND	106	70-130			
Dichlorodifluoromethane	23.0	0.50	ug/l	25.0	ND	92	36-150			
1,1-Dichloroethane	26.1	0.50	ug/l	25.0	ND	104	70-130			
1,2-Dichloroethane	26.8	0.50	ug/l	25.0	ND	107	68-143			
1,1-Dichloroethene	23.4	0.50	ug/l	25.0	ND	93	70-130			
cis-1,2-Dichloroethene	24.1	0.50	ug/l	25.0	ND	96	70-130			
trans-1,2-Dichloroethene	26.6	0.50	ug/l	25.0	ND	106	70-130			
1,2-Dichloropropane	27.3	0.50	ug/l	25.0	ND	109	70-130			
1,3-Dichloropropane	26.5	0.50	ug/l	25.0	ND	106	70-130			
2,2-Dichloropropane	25.9	1.0	ug/l	25.0	ND	104	66-130			

TestAmerica Phoenix

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Project ID: UPCO/3994018

Report Number: PUC0174

Sampled: 03/02/11

Received: 03/02/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0246 Extracted: 03/07/11										
Matrix Spike Analyzed: 03/07/2011 (11C0246-MS1)					Source: PUC0073-06RE1					
1,1-Dichloropropene	27.3	0.50	ug/l	25.0	ND	109	70-130			
cis-1,3-Dichloropropene	28.3	0.50	ug/l	25.0	ND	113	70-130			
trans-1,3-Dichloropropene	25.2	0.50	ug/l	25.0	ND	101	71-132			
Ethylbenzene	26.1	0.50	ug/l	25.0	ND	104	70-130			
Hexachlorobutadiene	28.5	1.0	ug/l	25.0	ND	114	66-129			
2-Hexanone	23.1	2.5	ug/l	25.0	ND	92	18-150			
Iodomethane	26.0	2.5	ug/l	25.0	ND	104	47-141			
Isopropylbenzene	27.6	0.50	ug/l	25.0	ND	110	78-137			
p-Isopropyltoluene	28.4	0.50	ug/l	25.0	ND	114	70-130			
Methylene Chloride	22.6	1.0	ug/l	25.0	0.110	90	74-132			
4-Methyl-2-pentanone (MIBK)	30.7	2.5	ug/l	25.0	ND	123	56-145			
Methyl-tert-butyl Ether (MTBE)	27.2	0.50	ug/l	25.0	ND	109	67-138			
Naphthalene	25.0	2.5	ug/l	25.0	ND	100	54-135			
n-Propylbenzene	26.6	0.50	ug/l	25.0	ND	107	70-130			
Styrene	23.7	0.50	ug/l	25.0	ND	95	51-123			
1,1,1,2-Tetrachloroethane	26.9	0.50	ug/l	25.0	ND	108	70-130			
1,1,2,2-Tetrachloroethane	27.3	0.50	ug/l	25.0	ND	109	69-133			
Tetrachloroethene	26.3	0.50	ug/l	25.0	ND	105	70-130			
Toluene	25.6	0.50	ug/l	25.0	ND	103	70-130			
1,2,3-Trichlorobenzene	29.3	1.0	ug/l	25.0	ND	117	70-130			
1,2,4-Trichlorobenzene	27.0	1.0	ug/l	25.0	ND	108	66-126			
1,1,1-Trichloroethane	26.5	0.50	ug/l	25.0	ND	106	76-132			
1,1,2-Trichloroethane	27.6	0.50	ug/l	25.0	ND	110	70-130			
Trichloroethene	26.2	0.50	ug/l	25.0	ND	105	70-130			
Trichlorofluoromethane	28.9	0.50	ug/l	25.0	ND	115	74-150			
1,2,3-Trichloropropane	25.9	1.0	ug/l	25.0	ND	104	70-130			
1,2,4-Trimethylbenzene	26.3	0.50	ug/l	25.0	ND	105	70-130			
1,3,5-Trimethylbenzene	25.5	0.50	ug/l	25.0	ND	102	61-138			
Vinyl Acetate	45.5	1.0	ug/l	25.0	ND	182	50-150			NI
Vinyl chloride	23.4	0.50	ug/l	25.0	ND	94	58-139			
Xylenes, Total	52.8	1.0	ug/l	50.0	ND	106	70-130			
Surrogate: Dibromofluoromethane	26.5		ug/l	25.0		106	70-130			
Surrogate: Toluene-d8	26.6		ug/l	25.0		107	70-130			
Surrogate: 4-Bromofluorobenzene	27.6		ug/l	25.0		110	70-130			

TestAmerica Phoenix

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Report Number: PUC0174

Sampled: 03/02/11

Received: 03/02/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 11C0246 Extracted: 03/07/11										
Matrix Spike Dup Analyzed: 03/07/2011 (11C0246-MSD1)					Source: PUC0073-06RE1					
Acetone	11.5	10	ug/l	25.0	ND	46	10-150	10	35	
Benzene	25.2	0.50	ug/l	25.0	ND	101	70-130	1	20	
Bromobenzene	26.1	0.50	ug/l	25.0	ND	105	70-130	1	20	
Bromochloromethane	24.9	0.50	ug/l	25.0	ND	99	70-130	1	20	
Bromodichloromethane	27.4	0.50	ug/l	25.0	ND	110	70-130	2	20	
Bromoform	23.7	1.0	ug/l	25.0	ND	95	62-126	5	20	
Bromomethane	23.3	1.0	ug/l	25.0	ND	93	55-136	3	24	
2-Butanone (MEK)	18.6	2.5	ug/l	25.0	ND	74	22-150	4	31	
n-Butylbenzene	27.9	0.50	ug/l	25.0	ND	112	70-130	1	20	
sec-Butylbenzene	28.0	0.50	ug/l	25.0	ND	112	70-130	8	20	
tert-Butylbenzene	28.1	0.50	ug/l	25.0	ND	112	70-130	10	20	
Carbon disulfide	26.7	0.50	ug/l	25.0	0.170	106	56-132	0.07	20	
Carbon tetrachloride	29.6	0.50	ug/l	25.0	ND	118	76-131	3	20	
Chlorobenzene	25.0	0.50	ug/l	25.0	ND	100	70-130	0.3	20	
Chloroethane	26.0	1.0	ug/l	25.0	ND	104	67-134	3	20	
Chloroform	25.4	0.50	ug/l	25.0	ND	101	70-130	2	20	
Chloromethane	23.1	1.0	ug/l	25.0	ND	92	50-135	3	20	
2-Chlorotoluene	26.3	0.50	ug/l	25.0	ND	105	70-130	7	20	
4-Chlorotoluene	28.7	0.50	ug/l	25.0	ND	115	70-130	7	20	
Dibromochloromethane	23.6	0.50	ug/l	25.0	ND	94	70-130	2	20	
1,2-Dibromo-3-chloropropane	24.3	2.5	ug/l	25.0	ND	97	60-135	11	29	
1,2-Dibromoethane (EDB)	25.1	0.50	ug/l	25.0	ND	100	70-130	3	20	
Dibromomethane	26.8	0.50	ug/l	25.0	ND	107	70-130	3	20	
1,2-Dichlorobenzene	27.6	0.50	ug/l	25.0	ND	110	70-130	4	20	
1,3-Dichlorobenzene	26.8	0.50	ug/l	25.0	ND	107	70-130	2	20	
1,4-Dichlorobenzene	27.5	0.50	ug/l	25.0	ND	110	70-130	4	20	
Dichlorodifluoromethane	24.1	0.50	ug/l	25.0	ND	96	36-150	5	22	
1,1-Dichloroethane	25.0	0.50	ug/l	25.0	ND	100	70-130	4	20	
1,2-Dichloroethane	24.5	0.50	ug/l	25.0	ND	98	68-143	9	20	
1,1-Dichloroethene	24.2	0.50	ug/l	25.0	ND	97	70-130	3	20	
cis-1,2-Dichloroethene	24.8	0.50	ug/l	25.0	ND	99	70-130	3	20	
trans-1,2-Dichloroethene	25.9	0.50	ug/l	25.0	ND	104	70-130	3	20	
1,2-Dichloropropane	26.1	0.50	ug/l	25.0	ND	104	70-130	5	20	
1,3-Dichloropropane	24.0	0.50	ug/l	25.0	ND	96	70-130	10	20	
2,2-Dichloropropane	25.7	1.0	ug/l	25.0	ND	103	66-130	0.7	20	

TestAmerica Phoenix

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Report Number: PUC0174

Sampled: 03/02/11

Received: 03/02/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0246 Extracted: 03/07/11										
Matrix Spike Dup Analyzed: 03/07/2011 (11C0246-MSD1)					Source: PUC0073-06RE1					
1,1-Dichloropropene	27.4	0.50	ug/l	25.0	ND	110	70-130	0.3	20	
cis-1,3-Dichloropropene	26.8	0.50	ug/l	25.0	ND	107	70-130	6	20	
trans-1,3-Dichloropropene	25.1	0.50	ug/l	25.0	ND	100	71-132	0.4	20	
Ethylbenzene	27.1	0.50	ug/l	25.0	ND	108	70-130	4	20	
Hexachlorobutadiene	31.1	1.0	ug/l	25.0	ND	125	66-129	9	21	
2-Hexanone	20.4	2.5	ug/l	25.0	ND	82	18-150	12	25	
Iodomethane	26.1	2.5	ug/l	25.0	ND	104	47-141	0.3	29	
Isopropylbenzene	30.1	0.50	ug/l	25.0	ND	121	78-137	9	20	
p-Isopropyltoluene	29.1	0.50	ug/l	25.0	ND	116	70-130	2	20	
Methylene Chloride	22.2	1.0	ug/l	25.0	0.110	89	74-132	2	20	
4-Methyl-2-pentanone (MIBK)	27.7	2.5	ug/l	25.0	ND	111	56-145	10	26	
Methyl-tert-butyl Ether (MTBE)	25.5	0.50	ug/l	25.0	ND	102	67-138	6	21	
Naphthalene	25.2	2.5	ug/l	25.0	ND	101	54-135	0.6	33	
n-Propylbenzene	29.0	0.50	ug/l	25.0	ND	116	70-130	8	20	
Styrene	24.0	0.50	ug/l	25.0	ND	96	51-123	1	21	
1,1,1,2-Tetrachloroethane	26.1	0.50	ug/l	25.0	ND	104	70-130	3	20	
1,1,2,2-Tetrachloroethane	26.4	0.50	ug/l	25.0	ND	105	69-133	4	20	
Tetrachloroethene	27.6	0.50	ug/l	25.0	ND	110	70-130	5	20	
Toluene	25.1	0.50	ug/l	25.0	ND	100	70-130	2	20	
1,2,3-Trichlorobenzene	30.5	1.0	ug/l	25.0	ND	122	70-130	4	20	
1,2,4-Trichlorobenzene	27.1	1.0	ug/l	25.0	ND	108	66-126	0.3	20	
1,1,1-Trichloroethane	27.5	0.50	ug/l	25.0	ND	110	76-132	4	20	
1,1,2-Trichloroethane	26.1	0.50	ug/l	25.0	ND	105	70-130	5	20	
Trichloroethene	26.4	0.50	ug/l	25.0	ND	106	70-130	1	20	
Trichlorofluoromethane	30.4	0.50	ug/l	25.0	ND	122	74-150	5	20	
1,2,3-Trichloropropane	27.3	1.0	ug/l	25.0	ND	109	70-130	5	20	
1,2,4-Trimethylbenzene	28.6	0.50	ug/l	25.0	ND	114	70-130	8	20	
1,3,5-Trimethylbenzene	28.2	0.50	ug/l	25.0	ND	113	61-138	10	33	
Vinyl Acetate	41.1	1.0	ug/l	25.0	ND	164	50-150	10	23	NI
Vinyl chloride	25.0	0.50	ug/l	25.0	ND	100	58-139	6	21	
Xylenes, Total	53.4	1.0	ug/l	50.0	ND	107	70-130	1	20	
Surrogate: Dibromofluoromethane	25.8		ug/l	25.0		103	70-130			
Surrogate: Toluene-d8	26.6		ug/l	25.0		106	70-130			
Surrogate: 4-Bromofluorobenzene	26.6		ug/l	25.0		107	70-130			

TestAmerica Phoenix

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Report Number: PUC0174

Sampled: 03/02/11
Received: 03/02/11

METHOD BLANK/QC DATA

1,4-DIOXANE BY GC/MS (EPA 5030B/8260B-SIM)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0084 Extracted: 03/03/11										
Blank Analyzed: 03/03/2011 (11C0084-BLK1)										
1,4-Dioxane	ND	1.0	ug/l							
Surrogate: Dibromofluoromethane	1.02		ug/l	1.00		102	70-140			
LCS Analyzed: 03/03/2011 (11C0084-BS1)										
1,4-Dioxane	10.0	1.0	ug/l	10.0		100	70-130			
Surrogate: Dibromofluoromethane	1.11		ug/l	1.00		111	70-140			
LCS Dup Analyzed: 03/03/2011 (11C0084-BSD1)										
1,4-Dioxane	9.91	1.0	ug/l	10.0		99	70-130	1	20	
Surrogate: Dibromofluoromethane	0.980		ug/l	1.00		98	70-140			
Matrix Spike Analyzed: 03/03/2011 (11C0084-MS1) Source: PUC0073-06										
1,4-Dioxane	10.1	1.0	ug/l	10.0	ND	101	45-150			
Surrogate: Dibromofluoromethane	1.10		ug/l	1.00		110	70-140			
Matrix Spike Dup Analyzed: 03/03/2011 (11C0084-MSD1) Source: PUC0073-06										
1,4-Dioxane	9.65	1.0	ug/l	10.0	ND	96	45-150	5	35	
Surrogate: Dibromofluoromethane	0.890		ug/l	1.00		89	70-140			

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PUC0174 <Page 30 of 37>

ARCADIS U.S., Inc. - Phoenix
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Project ID: UPCO/3994018
 Report Number: PUC0174

Sampled: 03/02/11
 Received: 03/02/11

METHOD BLANK/QC DATA

TOTAL METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 11C0134 Extracted: 03/03/11										
Blank Analyzed: 03/04/2011 (11C0134-BLK1)										
Mercury	ND	0.00020	mg/l							
LCS Analyzed: 03/04/2011 (11C0134-BS1)										
Mercury	0.00913	0.00020	mg/l	0.0100		91	85-115			
LCS Dup Analyzed: 03/04/2011 (11C0134-BSD1)										
Mercury	0.00920	0.00020	mg/l	0.0100		92	85-115	0.7	20	
Matrix Spike Analyzed: 03/04/2011 (11C0134-MS1)										
Mercury	0.0100	0.00020	mg/l	0.0100	ND	100	70-130			
Matrix Spike Analyzed: 03/04/2011 (11C0134-MS2)										
Mercury	0.00925	0.00020	mg/l	0.0100	ND	92	70-130			
Matrix Spike Dup Analyzed: 03/04/2011 (11C0134-MSD1)										
Mercury	0.00956	0.00020	mg/l	0.0100	ND	96	70-130	5	20	
Matrix Spike Dup Analyzed: 03/04/2011 (11C0134-MSD2)										
Mercury	0.00981	0.00020	mg/l	0.0100	ND	98	70-130	6	20	

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Received: 03/02/11

METHOD BLANK/QC DATA

TOTAL METALS BY ICP/MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0143 Extracted: 03/03/11										
Blank Analyzed: 03/04/2011 (11C0143-BLK1)										
Arsenic	ND	0.0010	mg/l							
Barium	ND	0.0010	mg/l							
Cadmium	ND	0.0010	mg/l							
Chromium	ND	0.0010	mg/l							
Lead	ND	0.0010	mg/l							
Selenium	ND	0.0020	mg/l							
Silver	ND	0.0010	mg/l							
LCS Analyzed: 03/04/2011 (11C0143-BS1)										
Arsenic	0.100	0.0010	mg/l	0.100		100	85-115			
Barium	0.0984	0.0010	mg/l	0.100		98	85-115			
Cadmium	0.101	0.0010	mg/l	0.100		101	85-115			
Chromium	0.104	0.0010	mg/l	0.100		104	85-115			
Lead	0.101	0.0010	mg/l	0.100		101	85-115			
Selenium	0.100	0.0020	mg/l	0.100		100	85-115			
Silver	0.0997	0.0010	mg/l	0.100		100	85-115			
LCS Dup Analyzed: 03/04/2011 (11C0143-BSD1)										
Arsenic	0.0990	0.0010	mg/l	0.100		99	85-115	1	20	
Barium	0.0982	0.0010	mg/l	0.100		98	85-115	0.2	20	
Cadmium	0.101	0.0010	mg/l	0.100		101	85-115	0.3	20	
Chromium	0.104	0.0010	mg/l	0.100		104	85-115	0.05	20	
Lead	0.101	0.0010	mg/l	0.100		101	85-115	0.4	20	
Selenium	0.0999	0.0020	mg/l	0.100		100	85-115	0.3	20	
Silver	0.0995	0.0010	mg/l	0.100		100	85-115	0.2	20	
Matrix Spike Analyzed: 03/04/2011 (11C0143-MS1)										
					Source: PUC0219-01					
Arsenic	0.115	0.0010	mg/l	0.100	0.0129	102	70-130			
Barium	0.203	0.0010	mg/l	0.100	0.104	98	70-130			
Cadmium	0.0985	0.0010	mg/l	0.100	ND	98	70-130			
Chromium	0.103	0.0010	mg/l	0.100	0.000271	102	70-130			
Lead	0.0980	0.0010	mg/l	0.100	0.000372	98	70-130			
Selenium	0.103	0.0020	mg/l	0.100	ND	103	70-130			
Silver	0.0898	0.0010	mg/l	0.100	ND	90	70-130			

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Report Number: PUC0174

Sampled: 03/02/11
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METHOD BLANK/QC DATA

TOTAL METALS BY ICP/MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0143 Extracted: 03/03/11										
Matrix Spike Analyzed: 03/04/2011 (11C0143-MS2)					Source: PUC0219-02					
Arsenic	0.107	0.0010	mg/l	0.100	0.00492	102	70-130			
Barium	0.200	0.0010	mg/l	0.100	0.102	98	70-130			
Cadmium	0.0982	0.0010	mg/l	0.100	ND	98	70-130			
Chromium	0.102	0.0010	mg/l	0.100	0.000412	101	70-130			
Lead	0.0986	0.0010	mg/l	0.100	0.000881	98	70-130			
Selenium	0.102	0.0020	mg/l	0.100	ND	102	70-130			
Silver	0.0873	0.0010	mg/l	0.100	ND	87	70-130			
Matrix Spike Dup Analyzed: 03/04/2011 (11C0143-MSD1)					Source: PUC0219-01					
Arsenic	0.116	0.0010	mg/l	0.100	0.0129	103	70-130	0.6	15	
Barium	0.201	0.0010	mg/l	0.100	0.104	96	70-130	0.9	15	
Cadmium	0.0994	0.0010	mg/l	0.100	ND	99	70-130	0.9	15	
Chromium	0.102	0.0010	mg/l	0.100	0.000271	101	70-130	1	15	
Lead	0.0978	0.0010	mg/l	0.100	0.000372	97	70-130	0.2	15	
Selenium	0.103	0.0020	mg/l	0.100	ND	103	70-130	0.3	15	
Silver	0.0912	0.0010	mg/l	0.100	ND	91	70-130	2	15	
Matrix Spike Dup Analyzed: 03/04/2011 (11C0143-MSD2)					Source: PUC0219-02					
Arsenic	0.108	0.0010	mg/l	0.100	0.00492	103	70-130	0.9	15	
Barium	0.201	0.0010	mg/l	0.100	0.102	98	70-130	0.3	15	
Cadmium	0.0996	0.0010	mg/l	0.100	ND	100	70-130	1	15	
Chromium	0.102	0.0010	mg/l	0.100	0.000412	102	70-130	0.8	15	
Lead	0.0991	0.0010	mg/l	0.100	0.000881	98	70-130	0.5	15	
Selenium	0.102	0.0020	mg/l	0.100	ND	102	70-130	0.06	15	
Silver	0.0828	0.0010	mg/l	0.100	ND	83	70-130	5	15	

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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PUC0174 <Page 33 of 37>

ARCADIS U.S., Inc. - Phoenix
 4646 E Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC0174

Sampled: 03/02/11

Received: 03/02/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0299 Extracted: 03/08/11										
Blank Analyzed: 03/08/2011 (11C0299-BLK1)										
Perchlorate	ND	2.0	ug/l							
LCS Analyzed: 03/08/2011 (11C0299-BS1)										
Perchlorate	25.3	NA	ug/l	25.0		101	85-115			
LCS Dup Analyzed: 03/08/2011 (11C0299-BSD1)										
Perchlorate	25.4	NA	ug/l	25.0		101	85-115	0.5	15	
Duplicate Analyzed: 03/08/2011 (11C0299-DUP1)										
Perchlorate	ND	2.0	ug/l		Source: PUC0073-04 ND				15	
Matrix Spike Analyzed: 03/08/2011 (11C0299-MS1)										
Perchlorate	23.8	2.0	ug/l	25.0	Source: PUC0073-06 ND	95	80-120			
Matrix Spike Dup Analyzed: 03/08/2011 (11C0299-MSD1)										
Perchlorate	23.9	2.0	ug/l	25.0	Source: PUC0073-06 ND	96	80-120	0.4	15	
Batch: 11C0390 Extracted: 03/10/11										
Blank Analyzed: 03/10/2011 (11C0390-BLK1)										
Perchlorate	ND	2.0	ug/l							
LCS Analyzed: 03/10/2011 (11C0390-BS1)										
Perchlorate	25.6	NA	ug/l	25.0		102	85-115			
LCS Dup Analyzed: 03/10/2011 (11C0390-BSD1)										
Perchlorate	25.1	NA	ug/l	25.0		101	85-115	2	15	

TestAmerica Phoenix

Carlene McCutcheon
 Project Manager

ARCADIS U.S., Inc. - Phoenix
 4646 E Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC0174

Sampled: 03/02/11

Received: 03/02/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0390 Extracted: 03/10/11										
Duplicate Analyzed: 03/10/2011 (11C0390-DUP1)										
Perchlorate	90.0	10	ug/l		87.1			3	15	
Source: PUC0174-06										
Matrix Spike Analyzed: 03/10/2011 (11C0390-MS1)										
Perchlorate	193	10	ug/l	125	67.0	101	80-120			
Source: PUC0174-05										
Matrix Spike Dup Analyzed: 03/10/2011 (11C0390-MSD1)										
Perchlorate	195	10	ug/l	125	67.0	102	80-120	0.8	15	
Source: PUC0174-05										

TestAmerica Phoenix

Carlene McCutcheon
 Project Manager

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PUC0174 <Page 35 of 37>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC0174

Sampled: 03/02/11

Received: 03/02/11

DATA QUALIFIERS AND DEFINITIONS

- L3** The associated blank spike recovery was above method acceptance limits.
- N1** See case narrative.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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PUC0174 <Page 36 of 37>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC0174

Sampled: 03/02/11

Received: 03/02/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
E200.8	Water		X
E245.1	Water		X
EPA 314.0	Water		X
EPA 8260B-SIM	Water		X
EPA 8260B	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

TAL-0013-550 (10/10)

- [] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
- [] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
- [] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Client Name/Address: Malcolm Pirnie Inc 4646 E Van Buren St Ste 400 Phoenix AZ 85008		Project/PO Number: UPCO/3994018		Analysis Required													
Project Manager: Greg Guimond		Phone Number: 602-214-1770		<div style="display: flex; justify-content: space-between; font-size: small;"> <div>317 perchlorate</div> <div>200⁸ As, Br, Cd, Cr, Se</div> <div>245.1</div> <div>Ng</div> <div>8260 B</div> <div>VOCs</div> <div>8260 B sim</div> <div>4-dioxane</div> </div>													
Sampler: Brian Brockman		Fax Number: 602-231-0131															
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives								Special Instructions			
TR030211-1	VOA	VOA	1	-	-	HCl								PUC0174-01			
TR030211-2	VOA	VOA	1	-	-	HCl								02			
MW-13	GW	500ml poly	1	3/2/11	11:11	None	X								03		
MW-13	GW	500ml poly	1	3/2/11	11:11	HNO3		X	X								
MW-13	GW	VOA	6	3/2/11	11:11	HCl			X	X							
MW-5	GW	500ml poly	1	3/2/11	12:46	None	X								04		
MW-5	GW	500ml poly	1	3/2/11	12:46	HNO3		X	X								
MW-5	GW	VOA	6	3/2/11	12:46	HCl			X	X							
MW-1	GW	500ml poly	1	3/2/11	14:04	None	X								05		
MW-1	GW	500ml poly	1	3/2/11	14:04	HNO3		X	X								
MW-1	GW	500ml poly	6	3/2/11	14:04	HCl			X	X							
MW-2	GW	500ml poly	1	3/2/11	15:34	None	X								06		
MW-2	GW	500ml poly	1	3/2/11	15:34	HNO3		X	X								
MW-2	GW	VOA	6	3/2/11	15:34	HCl			X	X							
Relinquished By:		Date/Time: 3/2/11 17:22		Received By:		Date/Time:		Turnaround Time: (Check)									
Relinquished By:		Date/Time:		Received By:		Date/Time:		same day _____ 72 hours _____ 24 hours _____ 5 days _____ 48 hours _____ normal <input checked="" type="checkbox"/>									
Relinquished By:		Date/Time:		Received in Lab By:		Date/Time: 3/2/11 17:22		Sample Integrity: (Check) intact <input checked="" type="checkbox"/> on ice <input checked="" type="checkbox"/>									

Note: By relinquishing samples to TestAmerica, 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.

THE LEADER IN ENVIRONMENTAL TESTING
TAL-0013-550 (10/10)

[] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
 [] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
 [] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Page 2 of 2

Client Name / Address: Malcolm Pirnie Inc 4616 E Van Buren St Ste 400 Phoenix AZ 85008			Project / PO Number: UPCO/3994018				Analysis Required														
Project Manager: Greg Hammond			Phone Number: 602-241-1770				314 perchlorate	300.46 As, Ba, Cd, Cr, Sc Pd, Ag	245.9 Hg	5260 B VOCs	8260 B SIM 1,4-dioxane										
Sampler: Blain Brockman			Fax Number: 602-213-0131									Special Instructions									
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives															
FD030211-01	GW	500ml poly	1	3/2/11	-	None	X														07
FD030211-01	GW	500ml poly	1	3/2/11	-	NaN03		X	X												L
FD030211-01	GW	VOL	6	3/2/11	-	HCl				X	X										
Relinquished By: <i>[Signature]</i>			Date/Time: 3/2/11 17:22		Received By: <i>[Signature]</i>			Date/Time:			Turnaround Time: (Check)										
Relinquished By:			Date/Time:		Received By:			Date/Time:			same day _____ 72 hours _____										
Relinquished By:			Date/Time:		Received in Lab By: <i>[Signature]</i>			Date/Time: 3/2/11 1722			24 hours _____ 5 days _____										
Relinquished By:			Date/Time:		Received in Lab By:			Date/Time:			48 hours _____ normal <u>X</u>										
Relinquished By:			Date/Time:		Received in Lab By:			Date/Time:			Sample Integrity: (Check)										
Relinquished By:			Date/Time:		Received in Lab By:			Date/Time:			intact <u>✓</u> on ice <u>X 2.2 PL</u>										

Note: By relinquishing samples to TestAmerica, 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.

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO/3994018

Sampled: 03/30/11
Received: 03/30/11
Issued: 04/12/11 10:27

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PUC1922-01	TB033011-1	Water
PUC1922-02	TB033011-2	Water
PUC1922-03	MW-18	Water
PUC1922-04	PW-1	Water

SAMPLE RECEIPT: Samples were received intact, at 5.6°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.
L3-Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
R1-The RPD exceeded the acceptance limit.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Reviewed By:



TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC1922

Sampled: 03/30/11

Received: 03/30/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC1922-01 (TB033011-1 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11D0228	10	ND	1	4/7/2011	4/7/2011	V1
Benzene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Bromobenzene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Bromochloromethane	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Bromodichloromethane	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Bromoform	EPA 8260B	11D0228	1.0	ND	1	4/7/2011	4/7/2011	
Bromomethane	EPA 8260B	11D0228	1.0	ND	1	4/7/2011	4/7/2011	
2-Butanone (MEK)	EPA 8260B	11D0228	2.5	ND	1	4/7/2011	4/7/2011	
n-Butylbenzene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
sec-Butylbenzene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
tert-Butylbenzene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Carbon disulfide	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Carbon tetrachloride	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Chlorobenzene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Chloroethane	EPA 8260B	11D0228	1.0	ND	1	4/7/2011	4/7/2011	
Chloroform	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Chloromethane	EPA 8260B	11D0228	1.0	ND	1	4/7/2011	4/7/2011	
2-Chlorotoluene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
4-Chlorotoluene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Dibromochloromethane	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11D0228	2.5	ND	1	4/7/2011	4/7/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Dibromomethane	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
1,2-Dichlorobenzene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
1,3-Dichlorobenzene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
1,4-Dichlorobenzene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Dichlorodifluoromethane	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
1,1-Dichloroethane	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
1,2-Dichloroethane	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
1,1-Dichloroethene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
cis-1,2-Dichloroethene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
trans-1,2-Dichloroethene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
1,2-Dichloropropane	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
1,3-Dichloropropane	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
2,2-Dichloropropane	EPA 8260B	11D0228	1.0	ND	1	4/7/2011	4/7/2011	
1,1-Dichloropropene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
cis-1,3-Dichloropropene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
trans-1,3-Dichloropropene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Ethylbenzene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Hexachlorobutadiene	EPA 8260B	11D0228	1.0	ND	1	4/7/2011	4/7/2011	

TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC1922

Sampled: 03/30/11
Received: 03/30/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC1922-01 (TB033011-1 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11D0228	2.5	ND	1	4/7/2011	4/7/2011	
Iodomethane	EPA 8260B	11D0228	2.5	ND	1	4/7/2011	4/7/2011	L3
Isopropylbenzene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
p-Isopropyltoluene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Methylene Chloride	EPA 8260B	11D0228	1.0	ND	1	4/7/2011	4/7/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11D0228	2.5	ND	1	4/7/2011	4/7/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Naphthalene	EPA 8260B	11D0228	2.5	ND	1	4/7/2011	4/7/2011	
n-Propylbenzene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Styrene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Tetrachloroethene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Toluene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11D0228	1.0	ND	1	4/7/2011	4/7/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11D0228	1.0	ND	1	4/7/2011	4/7/2011	
1,1,1-Trichloroethane	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
1,1,2-Trichloroethane	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Trichloroethene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Trichlorofluoromethane	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
1,2,3-Trichloropropane	EPA 8260B	11D0228	1.0	ND	1	4/7/2011	4/7/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Vinyl Acetate	EPA 8260B	11D0228	1.0	ND	1	4/7/2011	4/7/2011	
Vinyl chloride	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Xylenes, Total	EPA 8260B	11D0228	1.0	ND	1	4/7/2011	4/7/2011	
Surrogate: Dibromofluoromethane (70-130%)								121 %
Surrogate: Toluene-d8 (70-130%)								90 %
Surrogate: 4-Bromofluorobenzene (70-130%)								90 %

TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC1922

Sampled: 03/30/11

Received: 03/30/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC1922-03 (MW-18 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11D0228	10	ND	1	4/7/2011	4/7/2011	V1
Benzene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Bromobenzene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Bromochloromethane	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Bromodichloromethane	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Bromoform	EPA 8260B	11D0228	1.0	ND	1	4/7/2011	4/7/2011	
Bromomethane	EPA 8260B	11D0228	1.0	ND	1	4/7/2011	4/7/2011	
2-Butanone (MEK)	EPA 8260B	11D0228	2.5	ND	1	4/7/2011	4/7/2011	
n-Butylbenzene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
sec-Butylbenzene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
tert-Butylbenzene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Carbon disulfide	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Carbon tetrachloride	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Chlorobenzene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Chloroethane	EPA 8260B	11D0228	1.0	ND	1	4/7/2011	4/7/2011	
Chloroform	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Chloromethane	EPA 8260B	11D0228	1.0	ND	1	4/7/2011	4/7/2011	
2-Chlorotoluene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
4-Chlorotoluene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Dibromochloromethane	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11D0228	2.5	ND	1	4/7/2011	4/7/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Dibromomethane	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
1,2-Dichlorobenzene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
1,3-Dichlorobenzene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
1,4-Dichlorobenzene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Dichlorodifluoromethane	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
1,1-Dichloroethane	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
1,2-Dichloroethane	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
1,1-Dichloroethene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
cis-1,2-Dichloroethene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
trans-1,2-Dichloroethene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
1,2-Dichloropropane	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
1,3-Dichloropropane	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
2,2-Dichloropropane	EPA 8260B	11D0228	1.0	ND	1	4/7/2011	4/7/2011	
1,1-Dichloropropene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
cis-1,3-Dichloropropene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
trans-1,3-Dichloropropene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Ethylbenzene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Hexachlorobutadiene	EPA 8260B	11D0228	1.0	ND	1	4/7/2011	4/7/2011	

TestAmerica Phoenix

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Project ID: UPCO/3994018

Report Number: PUC1922

Sampled: 03/30/11
 Received: 03/30/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC1922-03 (MW-18 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11D0228	2.5	ND	1	4/7/2011	4/7/2011	
Iodomethane	EPA 8260B	11D0228	2.5	ND	1	4/7/2011	4/7/2011	L3
Isopropylbenzene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
p-Isopropyltoluene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Methylene Chloride	EPA 8260B	11D0228	1.0	ND	1	4/7/2011	4/7/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11D0228	2.5	ND	1	4/7/2011	4/7/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Naphthalene	EPA 8260B	11D0228	2.5	ND	1	4/7/2011	4/7/2011	
n-Propylbenzene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Styrene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Tetrachloroethene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Toluene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11D0228	1.0	ND	1	4/7/2011	4/7/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11D0228	1.0	ND	1	4/7/2011	4/7/2011	
1,1,1-Trichloroethane	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
1,1,2-Trichloroethane	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Trichloroethene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Trichlorofluoromethane	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
1,2,3-Trichloropropane	EPA 8260B	11D0228	1.0	ND	1	4/7/2011	4/7/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Vinyl Acetate	EPA 8260B	11D0228	1.0	ND	1	4/7/2011	4/7/2011	
Vinyl chloride	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Xylenes, Total	EPA 8260B	11D0228	1.0	ND	1	4/7/2011	4/7/2011	
Surrogate: Dibromofluoromethane (70-130%)				93 %				
Surrogate: Toluene-d8 (70-130%)				91 %				
Surrogate: 4-Bromofluorobenzene (70-130%)				91 %				

TestAmerica Phoenix

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Report Number: PUC1922

Sampled: 03/30/11
Received: 03/30/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC1922-04 (PW-1 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11D0228	10	ND	1	4/7/2011	4/7/2011	V1
Benzene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Bromobenzene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Bromochloromethane	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Bromodichloromethane	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Bromoform	EPA 8260B	11D0228	1.0	ND	1	4/7/2011	4/7/2011	
Bromomethane	EPA 8260B	11D0228	1.0	ND	1	4/7/2011	4/7/2011	
2-Butanone (MEK)	EPA 8260B	11D0228	2.5	ND	1	4/7/2011	4/7/2011	
n-Butylbenzene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
sec-Butylbenzene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
tert-Butylbenzene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Carbon disulfide	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Carbon tetrachloride	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Chlorobenzene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Chloroethane	EPA 8260B	11D0228	1.0	ND	1	4/7/2011	4/7/2011	
Chloroform	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Chloromethane	EPA 8260B	11D0228	1.0	ND	1	4/7/2011	4/7/2011	
2-Chlorotoluene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
4-Chlorotoluene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Dibromochloromethane	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11D0228	2.5	ND	1	4/7/2011	4/7/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Dibromomethane	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
1,2-Dichlorobenzene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
1,3-Dichlorobenzene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
1,4-Dichlorobenzene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Dichlorodifluoromethane	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
1,1-Dichloroethane	EPA 8260B	11D0228	0.50	0.61	1	4/7/2011	4/7/2011	
1,2-Dichloroethane	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
1,1-Dichloroethene	EPA 8260B	11D0228	0.50	5.0	1	4/7/2011	4/7/2011	
cis-1,2-Dichloroethene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
trans-1,2-Dichloroethene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
1,2-Dichloropropane	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
1,3-Dichloropropane	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
2,2-Dichloropropane	EPA 8260B	11D0228	1.0	ND	1	4/7/2011	4/7/2011	
1,1-Dichloropropene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
cis-1,3-Dichloropropene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
trans-1,3-Dichloropropene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Ethylbenzene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Hexachlorobutadiene	EPA 8260B	11D0228	1.0	ND	1	4/7/2011	4/7/2011	

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Project ID: UPCO/3994018

Report Number: PUC1922

Sampled: 03/30/11
Received: 03/30/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC1922-04 (PW-1 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11D0228	2.5	ND	1	4/7/2011	4/7/2011	
Iodomethane	EPA 8260B	11D0228	2.5	ND	1	4/7/2011	4/7/2011	L3
Isopropylbenzene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
p-Isopropyltoluene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Methylene Chloride	EPA 8260B	11D0228	1.0	ND	1	4/7/2011	4/7/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11D0228	2.5	ND	1	4/7/2011	4/7/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Naphthalene	EPA 8260B	11D0228	2.5	ND	1	4/7/2011	4/7/2011	
n-Propylbenzene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Styrene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Tetrachloroethene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Toluene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11D0228	1.0	ND	1	4/7/2011	4/7/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11D0228	1.0	ND	1	4/7/2011	4/7/2011	
1,1,1-Trichloroethane	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
1,1,2-Trichloroethane	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Trichloroethene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Trichlorofluoromethane	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
1,2,3-Trichloropropane	EPA 8260B	11D0228	1.0	ND	1	4/7/2011	4/7/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Vinyl Acetate	EPA 8260B	11D0228	1.0	ND	1	4/7/2011	4/7/2011	
Vinyl chloride	EPA 8260B	11D0228	0.50	ND	1	4/7/2011	4/7/2011	
Xylenes, Total	EPA 8260B	11D0228	1.0	ND	1	4/7/2011	4/7/2011	
Surrogate: Dibromofluoromethane (70-130%)				98 %				
Surrogate: Toluene-d8 (70-130%)				90 %				
Surrogate: 4-Bromofluorobenzene (70-130%)				93 %				

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Project Manager

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PUC1922 <Page 7 of 28>

ARCADIS U.S., Inc. - Phoenix
 4646 E Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC1922

Sampled: 03/30/11

Received: 03/30/11

TOTAL METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC1922-03 (MW-18 - Water)								
Reporting Units: mg/l								
Mercury	E245.1	11D0047	0.00020	ND	1	4/4/2011	4/4/2011	
Sample ID: PUC1922-04 (PW-1 - Water)								
Reporting Units: mg/l								
Mercury	E245.1	11D0047	0.00020	ND	1	4/4/2011	4/4/2011	

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ARCADIS U.S., Inc. - Phoenix
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 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC1922

Sampled: 03/30/11

Received: 03/30/11

TOTAL METALS BY ICP/MS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC1922-03 (MW-18 - Water)								
Reporting Units: mg/l								
Arsenic	E200.8	11C1198	0.0010	0.040	1	3/31/2011	4/1/2011	
Barium	E200.8	11C1198	0.0010	0.015	1	3/31/2011	4/1/2011	
Cadmium	E200.8	11C1198	0.0010	ND	1	3/31/2011	4/1/2011	
Chromium	E200.8	11C1198	0.0010	0.0031	1	3/31/2011	4/1/2011	
Lead	E200.8	11C1198	0.0010	ND	1	3/31/2011	4/1/2011	
Selenium	E200.8	11C1198	0.0020	ND	1	3/31/2011	4/1/2011	
Silver	E200.8	11C1198	0.0010	ND	1	3/31/2011	4/1/2011	
Sample ID: PUC1922-04 (PW-1 - Water)								
Reporting Units: mg/l								
Arsenic	E200.8	11C1198	0.0010	0.010	1	3/31/2011	4/1/2011	
Barium	E200.8	11C1198	0.0010	0.0067	1	3/31/2011	4/1/2011	
Cadmium	E200.8	11C1198	0.0010	ND	1	3/31/2011	4/1/2011	
Chromium	E200.8	11C1198	0.0010	0.0026	1	3/31/2011	4/1/2011	
Lead	E200.8	11C1198	0.0010	0.0012	1	3/31/2011	4/1/2011	
Selenium	E200.8	11C1198	0.0020	ND	1	3/31/2011	4/1/2011	
Silver	E200.8	11C1198	0.0010	ND	1	3/31/2011	4/1/2011	M2, R1

TestAmerica Phoenix

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Project ID: UPCO/3994018

Report Number: PUC1922

Sampled: 03/30/11

Received: 03/30/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC1922-03 (MW-18 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11C1190	2.0	ND	1	3/31/2011	3/31/2011	
Sample ID: PUC1922-04 (PW-1 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11C1190	2.0	3.8	1	3/31/2011	3/31/2011	

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Project ID: UPCO/3994018

Report Number: PUC1922

Sampled: 03/30/11

Received: 03/30/11

1,4-DIOXANE BY GCMS - SINGLE ION MONITORING (SIM)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC1922-02 (TB033011-2 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8260B-SIM	11D1184	2.0	ND	1	4/11/2011	4/11/2011	
<i>Surrogate: Dibromofluoromethane (80-120%)</i>				<i>113 %</i>				
Sample ID: PUC1922-03 (MW-18 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8260B-SIM	11D1184	2.0	ND	1	4/11/2011	4/11/2011	
<i>Surrogate: Dibromofluoromethane (80-120%)</i>				<i>115 %</i>				
Sample ID: PUC1922-04 (PW-1 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8260B-SIM	11D1184	2.0	2.9	1	4/11/2011	4/11/2011	
<i>Surrogate: Dibromofluoromethane (80-120%)</i>				<i>113 %</i>				

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Project ID: UPCO/3994018

Report Number: PUC1922

Sampled: 03/30/11

Received: 03/30/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11D0228 Extracted: 04/07/11										
Blank Analyzed: 04/07/2011 (11D0228-BLK1)										
Acetone	ND	10	ug/l							VI
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	0.50	ug/l							
Bromochloromethane	ND	0.50	ug/l							
Bromodichloromethane	ND	0.50	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
2-Butanone (MEK)	ND	2.5	ug/l							
n-Butylbenzene	ND	0.50	ug/l							
sec-Butylbenzene	ND	0.50	ug/l							
tert-Butylbenzene	ND	0.50	ug/l							
Carbon disulfide	ND	0.50	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	0.50	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	0.50	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	0.50	ug/l							
4-Chlorotoluene	ND	0.50	ug/l							
Dibromochloromethane	ND	0.50	ug/l							
1,2-Dibromo-3-chloropropane	ND	2.5	ug/l							
1,2-Dibromoethane (EDB)	ND	0.50	ug/l							
Dibromomethane	ND	0.50	ug/l							
1,2-Dichlorobenzene	ND	0.50	ug/l							
1,3-Dichlorobenzene	ND	0.50	ug/l							
1,4-Dichlorobenzene	ND	0.50	ug/l							
Dichlorodifluoromethane	ND	0.50	ug/l							
1,1-Dichloroethane	ND	0.50	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	0.50	ug/l							
cis-1,2-Dichloroethene	ND	0.50	ug/l							
trans-1,2-Dichloroethene	ND	0.50	ug/l							
1,2-Dichloropropane	ND	0.50	ug/l							
1,3-Dichloropropane	ND	0.50	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							

TestAmerica Phoenix

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Attention: Gregory Guimond

Project ID: UPCO/3994018
Report Number: PUC1922

Sampled: 03/30/11
Received: 03/30/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11D0228 Extracted: 04/07/11										
Blank Analyzed: 04/07/2011 (11D0228-BLK1)										
1,1-Dichloropropene	ND	0.50	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
2-Hexanone	ND	2.5	ug/l							
Iodomethane	ND	2.5	ug/l							
Isopropylbenzene	ND	0.50	ug/l							
p-Isopropyltoluene	ND	0.50	ug/l							
Methylene Chloride	ND	1.0	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	2.5	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	0.50	ug/l							
Naphthalene	ND	2.5	ug/l							
n-Propylbenzene	ND	0.50	ug/l							
Styrene	ND	0.50	ug/l							
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l							
Tetrachloroethene	ND	0.50	ug/l							
Toluene	ND	0.50	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	0.50	ug/l							
1,1,2-Trichloroethane	ND	0.50	ug/l							
Trichloroethene	ND	0.50	ug/l							
Trichlorofluoromethane	ND	0.50	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	0.50	ug/l							
1,3,5-Trimethylbenzene	ND	0.50	ug/l							
Vinyl Acetate	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
Xylenes, Total	ND	1.0	ug/l							
Surrogate: Dibromofluoromethane	23.5		ug/l	25.0		94	70-130			
Surrogate: Toluene-d8	23.1		ug/l	25.0		92	70-130			
Surrogate: 4-Bromofluorobenzene	22.8		ug/l	25.0		91	70-130			

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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ARCADIS U.S., Inc. - Phoenix
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Project ID: UPCO/3994018
Report Number: PUC1922

Sampled: 03/30/11
Received: 03/30/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11D0228 Extracted: 04/07/11										
LCS Analyzed: 04/07/2011 (11D0228-BS1)										
Acetone	36.9	10	ug/l	25.0		148	30-150			VI
Benzene	19.8	0.50	ug/l	25.0		79	70-130			
Bromobenzene	22.3	0.50	ug/l	25.0		89	70-130			
Bromochloromethane	20.6	0.50	ug/l	25.0		82	70-130			
Bromodichloromethane	21.0	0.50	ug/l	25.0		84	70-130			
Bromoform	24.7	1.0	ug/l	25.0		99	67-122			
Bromomethane	22.0	1.0	ug/l	25.0		88	64-132			
2-Butanone (MEK)	26.3	2.5	ug/l	25.0		105	48-150			
n-Butylbenzene	23.0	0.50	ug/l	25.0		92	70-130			
sec-Butylbenzene	21.9	0.50	ug/l	25.0		88	70-130			
tert-Butylbenzene	22.0	0.50	ug/l	25.0		88	70-130			
Carbon disulfide	23.0	0.50	ug/l	25.0		92	61-126			
Carbon tetrachloride	21.8	0.50	ug/l	25.0		87	70-130			
Chlorobenzene	20.6	0.50	ug/l	25.0		82	70-130			
Chloroethane	22.9	1.0	ug/l	25.0		92	69-128			
Chloroform	19.9	0.50	ug/l	25.0		80	70-130			
Chloromethane	19.7	1.0	ug/l	25.0		79	56-131			
2-Chlorotoluene	21.4	0.50	ug/l	25.0		86	70-130			
4-Chlorotoluene	22.4	0.50	ug/l	25.0		90	70-130			
Dibromochloromethane	22.3	0.50	ug/l	25.0		89	70-130			
1,2-Dibromo-3-chloropropane	22.9	2.5	ug/l	25.0		92	63-129			
1,2-Dibromoethane (EDB)	22.5	0.50	ug/l	25.0		90	70-130			
Dibromomethane	21.2	0.50	ug/l	25.0		85	70-130			
1,2-Dichlorobenzene	22.0	0.50	ug/l	25.0		88	70-130			
1,3-Dichlorobenzene	22.2	0.50	ug/l	25.0		89	70-130			
1,4-Dichlorobenzene	21.9	0.50	ug/l	25.0		87	70-130			
Dichlorodifluoromethane	25.7	0.50	ug/l	25.0		103	42-150			
1,1-Dichloroethane	19.9	0.50	ug/l	25.0		80	70-130			
1,2-Dichloroethane	20.7	0.50	ug/l	25.0		83	72-133			
1,1-Dichloroethene	27.7	0.50	ug/l	25.0		111	70-130			
cis-1,2-Dichloroethene	19.9	0.50	ug/l	25.0		80	70-130			
trans-1,2-Dichloroethene	20.5	0.50	ug/l	25.0		82	70-130			
1,2-Dichloropropane	20.2	0.50	ug/l	25.0		81	70-130			
1,3-Dichloropropane	21.5	0.50	ug/l	25.0		86	70-130			
2,2-Dichloropropane	20.4	1.0	ug/l	25.0		82	70-130			

TestAmerica Phoenix

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Sampled: 03/30/11
Received: 03/30/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 11D0228 Extracted: 04/07/11										
LCS Analyzed: 04/07/2011 (11D0228-BS1)										
1,1-Dichloropropene	21.2	0.50	ug/l	25.0		85	70-130			
cis-1,3-Dichloropropene	20.8	0.50	ug/l	25.0		83	70-130			
trans-1,3-Dichloropropene	22.0	0.50	ug/l	25.0		88	70-130			
Ethylbenzene	20.6	0.50	ug/l	25.0		82	70-130			
Hexachlorobutadiene	23.2	1.0	ug/l	25.0		93	70-130			
2-Hexanone	24.1	2.5	ug/l	25.0		96	44-150			
Iodomethane	41.0	2.5	ug/l	25.0		164	58-138			L3
Isopropylbenzene	23.7	0.50	ug/l	25.0		95	70-130			
p-Isopropyltoluene	22.8	0.50	ug/l	25.0		91	70-130			
Methylene Chloride	25.2	1.0	ug/l	25.0		101	70-130			
4-Methyl-2-pentanone (MIBK)	22.6	2.5	ug/l	25.0		90	61-142			
Methyl-tert-butyl Ether (MTBE)	21.1	0.50	ug/l	25.0		84	70-130			
Naphthalene	25.5	2.5	ug/l	25.0		102	65-129			
n-Propylbenzene	22.4	0.50	ug/l	25.0		89	70-130			
Styrene	21.8	0.50	ug/l	25.0		87	70-130			
1,1,1,2-Tetrachloroethane	21.1	0.50	ug/l	25.0		85	70-130			
1,1,2,2-Tetrachloroethane	23.1	0.50	ug/l	25.0		93	70-130			
Tetrachloroethene	20.8	0.50	ug/l	25.0		83	70-130			
Toluene	19.7	0.50	ug/l	25.0		79	70-130			
1,2,3-Trichlorobenzene	25.1	1.0	ug/l	25.0		100	70-130			
1,2,4-Trichlorobenzene	24.3	1.0	ug/l	25.0		97	70-130			
1,1,1-Trichloroethane	21.2	0.50	ug/l	25.0		85	70-130			
1,1,2-Trichloroethane	21.5	0.50	ug/l	25.0		86	70-130			
Trichloroethene	20.3	0.50	ug/l	25.0		81	70-130			
Trichlorofluoromethane	25.6	0.50	ug/l	25.0		103	78-149			
1,2,3-Trichloropropane	23.7	1.0	ug/l	25.0		95	70-130			
1,2,4-Trimethylbenzene	22.7	0.50	ug/l	25.0		91	70-130			
1,3,5-Trimethylbenzene	22.3	0.50	ug/l	25.0		89	70-130			
Vinyl Acetate	25.4	1.0	ug/l	25.0		101	57-149			
Vinyl chloride	21.7	0.50	ug/l	25.0		87	66-134			
Xylenes, Total	41.5	1.0	ug/l	50.0		83	70-130			
Surrogate: Dibromofluoromethane	23.9		ug/l	25.0		96	70-130			
Surrogate: Toluene-d8	22.9		ug/l	25.0		92	70-130			
Surrogate: 4-Bromofluorobenzene	23.0		ug/l	25.0		92	70-130			

TestAmerica Phoenix

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11D0228 Extracted: 04/07/11										
LCS Dup Analyzed: 04/07/2011 (11D0228-BSD1)										
Acetone	35.1	10	ug/l	25.0		140	30-150	5	35	VI
Benzene	19.8	0.50	ug/l	25.0		79	70-130	0.1	20	
Bromobenzene	22.4	0.50	ug/l	25.0		89	70-130	0.04	20	
Bromochloromethane	21.6	0.50	ug/l	25.0		86	70-130	5	20	
Bromodichloromethane	21.1	0.50	ug/l	25.0		85	70-130	0.4	20	
Bromoform	23.4	1.0	ug/l	25.0		93	67-122	6	20	
Bromomethane	24.8	1.0	ug/l	25.0		99	64-132	12	20	
2-Butanone (MEK)	27.7	2.5	ug/l	25.0		111	48-150	5	33	
n-Butylbenzene	22.6	0.50	ug/l	25.0		90	70-130	2	20	
sec-Butylbenzene	21.6	0.50	ug/l	25.0		86	70-130	2	20	
tert-Butylbenzene	22.1	0.50	ug/l	25.0		88	70-130	0.4	20	
Carbon disulfide	26.7	0.50	ug/l	25.0		107	61-126	15	20	
Carbon tetrachloride	21.4	0.50	ug/l	25.0		85	70-130	2	20	
Chlorobenzene	21.2	0.50	ug/l	25.0		85	70-130	3	20	
Chloroethane	24.5	1.0	ug/l	25.0		98	69-128	6	20	
Chloroform	20.4	0.50	ug/l	25.0		81	70-130	2	20	
Chloromethane	20.9	1.0	ug/l	25.0		84	56-131	6	20	
2-Chlorotoluene	21.2	0.50	ug/l	25.0		85	70-130	1	20	
4-Chlorotoluene	22.3	0.50	ug/l	25.0		89	70-130	0.4	20	
Dibromochloromethane	23.2	0.50	ug/l	25.0		93	70-130	4	20	
1,2-Dibromo-3-chloropropane	23.4	2.5	ug/l	25.0		94	63-129	2	25	
1,2-Dibromoethane (EDB)	22.6	0.50	ug/l	25.0		90	70-130	0.3	20	
Dibromomethane	22.0	0.50	ug/l	25.0		88	70-130	3	20	
1,2-Dichlorobenzene	21.9	0.50	ug/l	25.0		88	70-130	0.5	20	
1,3-Dichlorobenzene	21.7	0.50	ug/l	25.0		87	70-130	2	20	
1,4-Dichlorobenzene	22.0	0.50	ug/l	25.0		88	70-130	0.5	20	
Dichlorodifluoromethane	23.8	0.50	ug/l	25.0		95	42-150	8	20	
1,1-Dichloroethane	20.2	0.50	ug/l	25.0		81	70-130	2	20	
1,2-Dichloroethane	20.8	0.50	ug/l	25.0		83	72-133	0.5	20	
1,1-Dichloroethene	25.1	0.50	ug/l	25.0		100	70-130	10	20	
cis-1,2-Dichloroethene	19.3	0.50	ug/l	25.0		77	70-130	3	20	
trans-1,2-Dichloroethene	20.4	0.50	ug/l	25.0		82	70-130	0.2	20	
1,2-Dichloropropane	20.5	0.50	ug/l	25.0		82	70-130	1	20	
1,3-Dichloropropane	22.6	0.50	ug/l	25.0		90	70-130	5	20	
2,2-Dichloropropane	20.7	1.0	ug/l	25.0		83	70-130	2	20	

TestAmerica Phoenix

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD RPD	RPD Limit	Data Qualifiers
Batch: 11D0228 Extracted: 04/07/11									
LCS Dup Analyzed: 04/07/2011 (11D0228-BSD1)									
1,1-Dichloropropene	21.0	0.50	ug/l	25.0		84	70-130	0.9	20
cis-1,3-Dichloropropene	20.9	0.50	ug/l	25.0		84	70-130	0.7	20
trans-1,3-Dichloropropene	22.3	0.50	ug/l	25.0		89	70-130	1	20
Ethylbenzene	21.2	0.50	ug/l	25.0		85	70-130	3	20
Hexachlorobutadiene	23.2	1.0	ug/l	25.0		93	70-130	0.3	20
2-Hexanone	24.9	2.5	ug/l	25.0		100	44-150	3	31
Iodomethane	37.3	2.5	ug/l	25.0		149	58-138	9	25
Isopropylbenzene	23.5	0.50	ug/l	25.0		94	70-130	1	20
p-Isopropyltoluene	22.7	0.50	ug/l	25.0		91	70-130	0.6	20
Methylene Chloride	24.0	1.0	ug/l	25.0		96	70-130	5	20
4-Methyl-2-pentanone (MIBK)	23.6	2.5	ug/l	25.0		94	61-142	4	22
Methyl-tert-butyl Ether (MTBE)	21.3	0.50	ug/l	25.0		85	70-130	1	20
Naphthalene	26.4	2.5	ug/l	25.0		106	65-129	3	20
n-Propylbenzene	22.4	0.50	ug/l	25.0		89	70-130	0	20
Styrene	22.3	0.50	ug/l	25.0		89	70-130	2	20
1,1,1,2-Tetrachloroethane	22.3	0.50	ug/l	25.0		89	70-130	6	20
1,1,2,2-Tetrachloroethane	22.7	0.50	ug/l	25.0		91	70-130	2	20
Tetrachloroethene	21.9	0.50	ug/l	25.0		88	70-130	5	20
Toluene	20.2	0.50	ug/l	25.0		81	70-130	3	20
1,2,3-Trichlorobenzene	24.9	1.0	ug/l	25.0		100	70-130	0.6	20
1,2,4-Trichlorobenzene	24.7	1.0	ug/l	25.0		99	70-130	2	20
1,1,1-Trichloroethane	21.6	0.50	ug/l	25.0		86	70-130	2	20
1,1,2-Trichloroethane	21.2	0.50	ug/l	25.0		85	70-130	1	20
Trichloroethene	20.1	0.50	ug/l	25.0		80	70-130	0.8	20
Trichlorofluoromethane	25.9	0.50	ug/l	25.0		104	78-149	1	20
1,2,3-Trichloropropane	22.7	1.0	ug/l	25.0		91	70-130	4	20
1,2,4-Trimethylbenzene	22.6	0.50	ug/l	25.0		90	70-130	0.7	20
1,3,5-Trimethylbenzene	21.9	0.50	ug/l	25.0		88	70-130	2	20
Vinyl Acetate	25.4	1.0	ug/l	25.0		102	57-149	0.3	21
Vinyl chloride	22.2	0.50	ug/l	25.0		89	66-134	2	20
Xylenes, Total	42.0	1.0	ug/l	50.0		84	70-130	1	20
Surrogate: Dibromofluoromethane	24.1		ug/l	25.0		97	70-130		
Surrogate: Toluene-d8	22.6		ug/l	25.0		90	70-130		
Surrogate: 4-Bromofluorobenzene	24.2		ug/l	25.0		97	70-130		

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11D0228 Extracted: 04/07/11										
Matrix Spike Analyzed: 04/07/2011 (11D0228-MS1)					Source: PUC1949-01					
Acetone	28.8	10	ug/l	25.0	ND	115	10-150			VI
Benzene	19.9	0.50	ug/l	25.0	ND	80	70-130			
Bromobenzene	22.3	0.50	ug/l	25.0	ND	89	70-130			
Bromochloromethane	19.4	0.50	ug/l	25.0	ND	78	70-130			
Bromodichloromethane	20.5	0.50	ug/l	25.0	ND	82	70-130			
Bromoform	21.7	1.0	ug/l	25.0	ND	87	62-126			
Bromomethane	22.1	1.0	ug/l	25.0	ND	88	55-136			
2-Butanone (MEK)	35.4	2.5	ug/l	25.0	ND	142	22-150			
n-Butylbenzene	22.8	0.50	ug/l	25.0	ND	91	70-130			
sec-Butylbenzene	21.8	0.50	ug/l	25.0	ND	87	70-130			
tert-Butylbenzene	22.2	0.50	ug/l	25.0	ND	89	70-130			
Carbon disulfide	22.4	0.50	ug/l	25.0	ND	89	56-132			
Carbon tetrachloride	21.7	0.50	ug/l	25.0	ND	87	76-131			
Chlorobenzene	20.8	0.50	ug/l	25.0	ND	83	70-130			
Chloroethane	23.8	1.0	ug/l	25.0	ND	95	67-134			
Chloroform	19.4	0.50	ug/l	25.0	ND	78	70-130			
Chloromethane	19.7	1.0	ug/l	25.0	ND	79	50-135			
2-Chlorotoluene	21.1	0.50	ug/l	25.0	ND	84	70-130			
4-Chlorotoluene	22.6	0.50	ug/l	25.0	ND	90	70-130			
Dibromochloromethane	21.7	0.50	ug/l	25.0	ND	87	70-130			
1,2-Dibromo-3-chloropropane	20.4	2.5	ug/l	25.0	ND	82	60-135			
1,2-Dibromoethane (EDB)	21.0	0.50	ug/l	25.0	ND	84	70-130			
Dibromomethane	21.4	0.50	ug/l	25.0	ND	86	70-130			
1,2-Dichlorobenzene	21.9	0.50	ug/l	25.0	ND	88	70-130			
1,3-Dichlorobenzene	22.0	0.50	ug/l	25.0	ND	88	70-130			
1,4-Dichlorobenzene	21.7	0.50	ug/l	25.0	ND	87	70-130			
Dichlorodifluoromethane	21.9	0.50	ug/l	25.0	ND	88	36-150			
1,1-Dichloroethane	19.4	0.50	ug/l	25.0	ND	77	70-130			
1,2-Dichloroethane	19.5	0.50	ug/l	25.0	ND	78	68-143			
1,1-Dichloroethene	25.8	0.50	ug/l	25.0	ND	103	70-130			
cis-1,2-Dichloroethene	18.6	0.50	ug/l	25.0	ND	74	70-130			
trans-1,2-Dichloroethene	19.5	0.50	ug/l	25.0	ND	78	70-130			
1,2-Dichloropropane	20.5	0.50	ug/l	25.0	ND	82	70-130			
1,3-Dichloropropane	20.8	0.50	ug/l	25.0	ND	83	70-130			
2,2-Dichloropropane	19.7	1.0	ug/l	25.0	ND	79	66-130			

TestAmerica Phoenix

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11D0228 Extracted: 04/07/11										
Matrix Spike Analyzed: 04/07/2011 (11D0228-MS1)					Source: PUC1949-01					
1,1-Dichloropropene	20.8	0.50	ug/l	25.0	ND	83	70-130			
cis-1,3-Dichloropropene	20.5	0.50	ug/l	25.0	ND	82	70-130			
trans-1,3-Dichloropropene	21.7	0.50	ug/l	25.0	ND	87	71-132			
Ethylbenzene	20.7	0.50	ug/l	25.0	ND	83	70-130			
Hexachlorobutadiene	24.1	1.0	ug/l	25.0	ND	96	66-129			
2-Hexanone	20.6	2.5	ug/l	25.0	ND	82	18-150			
Iodomethane	32.4	2.5	ug/l	25.0	ND	130	47-141			
Isopropylbenzene	24.0	0.50	ug/l	25.0	ND	96	78-137			
p-Isopropyltoluene	22.7	0.50	ug/l	25.0	ND	91	70-130			
Methylene Chloride	19.6	1.0	ug/l	25.0	ND	78	74-132			
4-Methyl-2-pentanone (MIBK)	25.7	2.5	ug/l	25.0	4.39	85	56-145			
Methyl-tert-butyl Ether (MTBE)	19.4	0.50	ug/l	25.0	0.150	77	67-138			
Naphthalene	23.0	2.5	ug/l	25.0	ND	92	54-135			
n-Propylbenzene	22.5	0.50	ug/l	25.0	ND	90	70-130			
Styrene	19.4	0.50	ug/l	25.0	ND	78	51-123			
1,1,1,2-Tetrachloroethane	21.0	0.50	ug/l	25.0	ND	84	70-130			
1,1,2,2-Tetrachloroethane	21.2	0.50	ug/l	25.0	ND	85	69-133			
Tetrachloroethene	21.2	0.50	ug/l	25.0	ND	85	70-130			
Toluene	20.4	0.50	ug/l	25.0	ND	82	70-130			
1,2,3-Trichlorobenzene	24.0	1.0	ug/l	25.0	ND	96	70-130			
1,2,4-Trichlorobenzene	24.6	1.0	ug/l	25.0	ND	99	66-126			
1,1,1-Trichloroethane	20.2	0.50	ug/l	25.0	ND	81	76-132			
1,1,2-Trichloroethane	20.2	0.50	ug/l	25.0	ND	81	70-130			
Trichloroethene	20.4	0.50	ug/l	25.0	ND	82	70-130			
Trichlorofluoromethane	25.7	0.50	ug/l	25.0	ND	103	74-150			
1,2,3-Trichloropropane	21.0	1.0	ug/l	25.0	ND	84	70-130			
1,2,4-Trimethylbenzene	22.6	0.50	ug/l	25.0	ND	90	70-130			
1,3,5-Trimethylbenzene	22.2	0.50	ug/l	25.0	ND	89	61-138			
Vinyl Acetate	22.3	1.0	ug/l	25.0	ND	89	50-150			
Vinyl chloride	22.2	0.50	ug/l	25.0	ND	89	58-139			
Xylenes, Total	41.8	1.0	ug/l	50.0	ND	84	70-130			
Surrogate: Dibromofluoromethane	23.9		ug/l	25.0		96	70-130			
Surrogate: Toluene-d8	23.0		ug/l	25.0		92	70-130			
Surrogate: 4-Bromofluorobenzene	24.0		ug/l	25.0		96	70-130			

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11D0228 Extracted: 04/07/11										
Matrix Spike Dup Analyzed: 04/07/2011 (11D0228-MSD1)					Source: PUC1949-01					
Acetone	26.6	10	ug/l	25.0	ND	106	10-150	8	35	VI
Benzene	19.7	0.50	ug/l	25.0	ND	79	70-130	1	20	
Bromobenzene	22.3	0.50	ug/l	25.0	ND	89	70-130	0.2	20	
Bromochloromethane	20.6	0.50	ug/l	25.0	ND	82	70-130	5	20	
Bromodichloromethane	20.0	0.50	ug/l	25.0	ND	80	70-130	3	20	
Bromoform	22.7	1.0	ug/l	25.0	ND	91	62-126	5	20	
Bromomethane	22.3	1.0	ug/l	25.0	ND	89	55-136	0.7	24	
2-Butanone (MEK)	22.6	2.5	ug/l	25.0	ND	90	22-150	44	31	RI
n-Butylbenzene	23.5	0.50	ug/l	25.0	ND	94	70-130	3	20	
sec-Butylbenzene	22.3	0.50	ug/l	25.0	ND	89	70-130	2	20	
tert-Butylbenzene	22.8	0.50	ug/l	25.0	ND	91	70-130	3	20	
Carbon disulfide	22.5	0.50	ug/l	25.0	ND	90	56-132	0.5	20	
Carbon tetrachloride	21.4	0.50	ug/l	25.0	ND	86	76-131	2	20	
Chlorobenzene	20.6	0.50	ug/l	25.0	ND	82	70-130	0.8	20	
Chloroethane	24.1	1.0	ug/l	25.0	ND	96	67-134	1	20	
Chloroform	19.5	0.50	ug/l	25.0	ND	78	70-130	0.3	20	
Chloromethane	20.4	1.0	ug/l	25.0	ND	82	50-135	4	20	
2-Chlorotoluene	21.6	0.50	ug/l	25.0	ND	86	70-130	2	20	
4-Chlorotoluene	22.9	0.50	ug/l	25.0	ND	92	70-130	1	20	
Dibromochloromethane	21.4	0.50	ug/l	25.0	ND	86	70-130	1	20	
1,2-Dibromo-3-chloropropane	22.9	2.5	ug/l	25.0	ND	92	60-135	12	29	
1,2-Dibromoethane (EDB)	20.8	0.50	ug/l	25.0	ND	83	70-130	0.8	20	
Dibromomethane	20.2	0.50	ug/l	25.0	ND	81	70-130	6	20	
1,2-Dichlorobenzene	22.1	0.50	ug/l	25.0	ND	88	70-130	0.8	20	
1,3-Dichlorobenzene	22.5	0.50	ug/l	25.0	ND	90	70-130	2	20	
1,4-Dichlorobenzene	22.7	0.50	ug/l	25.0	ND	91	70-130	4	20	
Dichlorodifluoromethane	21.9	0.50	ug/l	25.0	ND	88	36-150	0.05	22	
1,1-Dichloroethane	19.2	0.50	ug/l	25.0	ND	77	70-130	0.9	20	
1,2-Dichloroethane	20.2	0.50	ug/l	25.0	ND	81	68-143	3	20	
1,1-Dichloroethene	19.4	0.50	ug/l	25.0	ND	78	70-130	28	20	RI
cis-1,2-Dichloroethene	18.9	0.50	ug/l	25.0	ND	76	70-130	2	20	
trans-1,2-Dichloroethene	20.0	0.50	ug/l	25.0	ND	80	70-130	2	20	
1,2-Dichloropropane	20.0	0.50	ug/l	25.0	ND	80	70-130	3	20	
1,3-Dichloropropane	20.1	0.50	ug/l	25.0	ND	80	70-130	3	20	
2,2-Dichloropropane	19.7	1.0	ug/l	25.0	ND	79	66-130	0.3	20	

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VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11D0228 Extracted: 04/07/11										
Matrix Spike Dup Analyzed: 04/07/2011 (11D0228-MSD1)					Source: PUC1949-01					
1,1-Dichloropropene	20.7	0.50	ug/l	25.0	ND	83	70-130	0.8	20	
cis-1,3-Dichloropropene	20.3	0.50	ug/l	25.0	ND	81	70-130	0.8	20	
trans-1,3-Dichloropropene	20.9	0.50	ug/l	25.0	ND	83	71-132	4	20	
Ethylbenzene	20.7	0.50	ug/l	25.0	ND	83	70-130	0.05	20	
Hexachlorobutadiene	23.8	1.0	ug/l	25.0	ND	95	66-129	1	21	
2-Hexanone	20.5	2.5	ug/l	25.0	ND	82	18-150	0.7	25	
Iodomethane	24.3	2.5	ug/l	25.0	ND	97	47-141	29	29	
Isopropylbenzene	24.5	0.50	ug/l	25.0	ND	98	78-137	2	20	
p-Isopropyltoluene	23.3	0.50	ug/l	25.0	ND	93	70-130	3	20	
Methylene Chloride	19.4	1.0	ug/l	25.0	ND	77	74-132	1	20	
4-Methyl-2-pentanone (MIBK)	21.2	2.5	ug/l	25.0	4.39	67	56-145	20	26	
Methyl-tert-butyl Ether (MTBE)	18.8	0.50	ug/l	25.0	0.150	74	67-138	3	21	
Naphthalene	23.9	2.5	ug/l	25.0	ND	96	54-135	4	33	
n-Propylbenzene	23.0	0.50	ug/l	25.0	ND	92	70-130	2	20	
Styrene	18.2	0.50	ug/l	25.0	ND	73	51-123	7	21	
1,1,1,2-Tetrachloroethane	20.5	0.50	ug/l	25.0	ND	82	70-130	2	20	
1,1,2,2-Tetrachloroethane	21.4	0.50	ug/l	25.0	ND	86	69-133	0.7	20	
Tetrachloroethene	20.6	0.50	ug/l	25.0	ND	83	70-130	2	20	
Toluene	20.2	0.50	ug/l	25.0	ND	81	70-130	0.9	20	
1,2,3-Trichlorobenzene	23.7	1.0	ug/l	25.0	ND	95	70-130	1	20	
1,2,4-Trichlorobenzene	24.6	1.0	ug/l	25.0	ND	98	66-126	0.3	20	
1,1,1-Trichloroethane	20.3	0.50	ug/l	25.0	ND	81	76-132	0.9	20	
1,1,2-Trichloroethane	20.3	0.50	ug/l	25.0	ND	81	70-130	0.8	20	
Trichloroethene	20.4	0.50	ug/l	25.0	ND	81	70-130	0.1	20	
Trichlorofluoromethane	24.8	0.50	ug/l	25.0	ND	99	74-150	3	20	
1,2,3-Trichloropropane	22.0	1.0	ug/l	25.0	ND	88	70-130	5	20	
1,2,4-Trimethylbenzene	23.2	0.50	ug/l	25.0	ND	93	70-130	3	20	
1,3,5-Trimethylbenzene	22.6	0.50	ug/l	25.0	ND	91	61-138	2	33	
Vinyl Acetate	20.7	1.0	ug/l	25.0	ND	83	50-150	7	23	
Vinyl chloride	22.8	0.50	ug/l	25.0	ND	91	58-139	3	21	
Xylenes, Total	41.0	1.0	ug/l	50.0	ND	82	70-130	2	20	
Surrogate: Dibromofluoromethane	23.3		ug/l	25.0		93	70-130			
Surrogate: Toluene-d8	23.1		ug/l	25.0		93	70-130			
Surrogate: 4-Bromofluorobenzene	23.7		ug/l	25.0		95	70-130			

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TOTAL METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11D0047 Extracted: 04/04/11										
Blank Analyzed: 04/04/2011 (11D0047-BLK1)										
Mercury	ND	0.00020	mg/l							
LCS Analyzed: 04/04/2011 (11D0047-BS1)										
Mercury	0.00939	0.00020	mg/l	0.0100		94	85-115			
LCS Dup Analyzed: 04/04/2011 (11D0047-BSD1)										
Mercury	0.00947	0.00020	mg/l	0.0100		95	85-115	0.9	20	
Matrix Spike Analyzed: 04/04/2011 (11D0047-MS1)										
Mercury	0.00833	0.00020	mg/l	0.0100	ND	83	70-130			
Matrix Spike Analyzed: 04/04/2011 (11D0047-MS2)										
Mercury	0.00853	0.00020	mg/l	0.0100	ND	85	70-130			
Matrix Spike Dup Analyzed: 04/04/2011 (11D0047-MSD1)										
Mercury	0.00797	0.00020	mg/l	0.0100	ND	80	70-130	4	20	
Matrix Spike Dup Analyzed: 04/04/2011 (11D0047-MSD2)										
Mercury	0.00795	0.00020	mg/l	0.0100	ND	80	70-130	7	20	

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TOTAL METALS BY ICP/MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C1198 Extracted: 03/31/11										
Blank Analyzed: 04/01/2011 (11C1198-BLK1)										
Arsenic	ND	0.0010	mg/l							
Barium	ND	0.0010	mg/l							
Cadmium	ND	0.0010	mg/l							
Chromium	ND	0.0010	mg/l							
Lead	ND	0.0010	mg/l							
Selenium	ND	0.0020	mg/l							
Silver	ND	0.0010	mg/l							
LCS Analyzed: 04/01/2011 (11C1198-BS1)										
Arsenic	0.0977	0.0010	mg/l	0.100		98	85-115			
Barium	0.103	0.0010	mg/l	0.100		103	85-115			
Cadmium	0.100	0.0010	mg/l	0.100		100	85-115			
Chromium	0.106	0.0010	mg/l	0.100		106	85-115			
Lead	0.109	0.0010	mg/l	0.100		109	85-115			
Selenium	0.0971	0.0020	mg/l	0.100		97	85-115			
Silver	0.106	0.0010	mg/l	0.100		106	85-115			
LCS Dup Analyzed: 04/01/2011 (11C1198-BSD1)										
Arsenic	0.0976	0.0010	mg/l	0.100		98	85-115	0.05	20	
Barium	0.108	0.0010	mg/l	0.100		108	85-115	5	20	
Cadmium	0.103	0.0010	mg/l	0.100		103	85-115	2	20	
Chromium	0.104	0.0010	mg/l	0.100		104	85-115	2	20	
Lead	0.109	0.0010	mg/l	0.100		109	85-115	0.4	20	
Selenium	0.0971	0.0020	mg/l	0.100		97	85-115	0.03	20	
Silver	0.111	0.0010	mg/l	0.100		111	85-115	4	20	
Matrix Spike Analyzed: 04/01/2011 (11C1198-MS1)										
					Source: PUC1922-03					
Arsenic	0.140	0.0010	mg/l	0.100	0.0396	100	70-130			
Barium	0.118	0.0010	mg/l	0.100	0.0149	103	70-130			
Cadmium	0.102	0.0010	mg/l	0.100	ND	102	70-130			
Chromium	0.107	0.0010	mg/l	0.100	0.00311	104	70-130			
Lead	0.105	0.0010	mg/l	0.100	0.000949	104	70-130			
Selenium	0.100	0.0020	mg/l	0.100	ND	100	70-130			
Silver	0.102	0.0010	mg/l	0.100	ND	102	70-130			

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TOTAL METALS BY ICP/MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C1198 Extracted: 03/31/11										
Matrix Spike Analyzed: 04/01/2011 (11C1198-MS2)					Source: PUC1922-04					
Arsenic	0.110	0.0010	mg/l	0.100	0.00999	100	70-130			
Barium	0.115	0.0010	mg/l	0.100	0.00673	108	70-130			
Cadmium	0.103	0.0010	mg/l	0.100	ND	103	70-130			
Chromium	0.107	0.0010	mg/l	0.100	0.00262	104	70-130			
Lead	0.106	0.0010	mg/l	0.100	0.00123	105	70-130			
Selenium	0.0986	0.0020	mg/l	0.100	ND	99	70-130			
Silver	0.0116	0.0010	mg/l	0.100	ND	12	70-130			M2
Matrix Spike Dup Analyzed: 04/01/2011 (11C1198-MSD1)					Source: PUC1922-03					
Arsenic	0.142	0.0010	mg/l	0.100	0.0396	102	70-130	1	15	
Barium	0.116	0.0010	mg/l	0.100	0.0149	101	70-130	1	15	
Cadmium	0.103	0.0010	mg/l	0.100	ND	103	70-130	0.3	15	
Chromium	0.107	0.0010	mg/l	0.100	0.00311	104	70-130	0.04	15	
Lead	0.106	0.0010	mg/l	0.100	0.000949	105	70-130	1	15	
Selenium	0.103	0.0020	mg/l	0.100	ND	103	70-130	3	15	
Silver	0.0991	0.0010	mg/l	0.100	ND	99	70-130	3	15	
Matrix Spike Dup Analyzed: 04/01/2011 (11C1198-MSD2)					Source: PUC1922-04					
Arsenic	0.110	0.0010	mg/l	0.100	0.00999	100	70-130	0.3	15	
Barium	0.111	0.0010	mg/l	0.100	0.00673	104	70-130	3	15	
Cadmium	0.102	0.0010	mg/l	0.100	ND	102	70-130	0.9	15	
Chromium	0.107	0.0010	mg/l	0.100	0.00262	104	70-130	0.3	15	
Lead	0.104	0.0010	mg/l	0.100	0.00123	103	70-130	2	15	
Selenium	0.0999	0.0020	mg/l	0.100	ND	100	70-130	1	15	
Silver	0.0169	0.0010	mg/l	0.100	ND	17	70-130	37	15	M2, R1

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INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C1190 Extracted: 03/31/11										
Blank Analyzed: 03/31/2011 (11C1190-BLK1)										
Perchlorate	ND	2.0	ug/l							
LCS Analyzed: 03/31/2011 (11C1190-BS1)										
Perchlorate	24.9	NA	ug/l	25.0		100	85-115			
LCS Dup Analyzed: 03/31/2011 (11C1190-BSD1)										
Perchlorate	24.8	NA	ug/l	25.0		99	85-115	0.5	15	
Duplicate Analyzed: 03/31/2011 (11C1190-DUP1)										
Perchlorate	3.23	2.0	ug/l		3.46			7	15	Source: PUC1809-03
Duplicate Analyzed: 03/31/2011 (11C1190-DUP2)										
Perchlorate	ND	2.0	ug/l		ND				15	Source: PUC1922-03
Matrix Spike Analyzed: 03/31/2011 (11C1190-MS1)										
Perchlorate	26.3	2.0	ug/l	25.0	2.91	93	80-120			Source: PUC1809-02
Matrix Spike Analyzed: 03/31/2011 (11C1190-MS2)										
Perchlorate	25.5	2.0	ug/l	25.0	2.28	93	80-120			Source: PUC1913-03
Matrix Spike Dup Analyzed: 03/31/2011 (11C1190-MSD1)										
Perchlorate	25.9	2.0	ug/l	25.0	2.91	92	80-120	2	15	Source: PUC1809-02
Matrix Spike Dup Analyzed: 03/31/2011 (11C1190-MSD2)										
Perchlorate	25.2	2.0	ug/l	25.0	2.28	92	80-120	1	15	Source: PUC1913-03

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Report Number: PUC1922

Sampled: 03/30/11
Received: 03/30/11

METHOD BLANK/QC DATA

1,4-DIOXANE BY GCMS - SINGLE ION MONITORING (SIM)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11D1184 Extracted: 04/11/11										
Blank Analyzed: 04/11/2011 (11D1184-BLK1)										
1,4-Dioxane	ND	2.0	ug/l							
Surrogate: Dibromofluoromethane	1.09		ug/l	1.00		109	80-120			
LCS Analyzed: 04/11/2011 (11D1184-BS1)										
1,4-Dioxane	9.41	2.0	ug/l	10.0		94	70-125			
Surrogate: Dibromofluoromethane	1.09		ug/l	1.00		109	80-120			
Matrix Spike Analyzed: 04/11/2011 (11D1184-MS1)										
					Source: IUD0734-08					
1,4-Dioxane	13.5	2.0	ug/l	10.0	4.01	95	70-130			
Surrogate: Dibromofluoromethane	1.14		ug/l	1.00		114	80-120			
Matrix Spike Dup Analyzed: 04/11/2011 (11D1184-MSD1)										
					Source: IUD0734-08					
1,4-Dioxane	13.3	2.0	ug/l	10.0	4.01	93	70-130	1	30	
Surrogate: Dibromofluoromethane	1.16		ug/l	1.00		116	80-120			

TestAmerica Phoenix

Tina Paulauskas
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC1922

Sampled: 03/30/11

Received: 03/30/11

DATA QUALIFIERS AND DEFINITIONS

- L3** The associated blank spike recovery was above method acceptance limits.
- M2** Matrix spike recovery was low; the associated blank spike recovery was acceptable.
- R1** The RPD/RSD exceeded the method acceptance limit.
- 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 or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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PUC1922 <Page 27 of 28>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUC1922

Sampled: 03/30/11

Received: 03/30/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
E200.8	Water		X
E245.1	Water		X
EPA 314.0	Water		X
EPA 8260B	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

Subcontracted Laboratories

TestAmerica - Irvine, CA NELAC Cert #01108CA, California Cert #1197, Arizona Cert #AZ0671, Nevada Cert #CA72-2002-63

17461 Derian Ave. Suite 100 - Irvine, CA 92614

Method Performed: EPA 8260B-SIM

Samples: PUC1922-02, PUC1922-03, PUC1922-04

TestAmerica Phoenix

Tina Paulauskas
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

CHAIN OF CUSTODY FORM

Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
 Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
 Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

THE LEADER IN ENVIRONMENTAL TESTING
TAL-0013-550 (10/10)

Client Name/Address: Malcolm Pirnie Inc 4646 E Van Buren St Ste 400 Phoenix AZ 85008	Project/PO Number: JPLC/3994018	Analysis Required			
Project Manager: Greg Guimond	Phone Number: 602-214-1770	319	Perchlorate	2008	As, Ba, Cd, Cr, Se, Pb, Ag
Sampler: Brian Brockman	Fax Number: 602-231-0131	2015	Hg	8260 B	VOCs
		8260 B Sim	14-dioxane		
Special Instructions					

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	Analysis Required	Special Instructions
TR033011-1	Lab H ₂ O	VOA	1	-	-	HCl	X	PVC 1922-01
TR033011-2	Lab H ₂ O	VOA	1	-	-	HCl	X	02
MW-18	GW 300ml poly	300ml poly	1	3/30/11	1535	None	X	03
MW-18	GW 300ml poly	300ml poly	1	3/30/11	1535	HNO ₃	X X	I
MW-18	GW	VOA	6	3/30/11	1535	HCl	X X	04
PW-1	GW 300ml poly	300ml poly	1	3/30/11	1438	None	X	I
PW-1	GW 300ml poly	300ml poly	1	3/30/11	1438	HNO ₃	X X	I
PW-1	GW	VOA	6	3/30/11	1438	HCl	X X	

Relinquished By:	Date/Time:	Received By:	Date/Time:	Turnaround Time: (Check)
<i>[Signature]</i>	3/30/11 1715	<i>[Signature]</i>	3/30/11 1715	same day _____ 72 hours _____
Relinquished By:	Date/Time:	Received By:	Date/Time:	24 hours _____ 5 days _____
<i>[Signature]</i>	3/30/11 1730	<i>[Signature]</i>	3/30/11 1730	48 hours _____ normal <input checked="" type="checkbox"/>
Relinquished By:	Date/Time:	Received (in-Lab) By:	Date/Time:	Sample Integrity: (Check)
		<i>[Signature]</i>	3/30/11 1730	intact <input checked="" type="checkbox"/> on ice <input checked="" type="checkbox"/>

Note: By relinquishing samples to TestAmerica, 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.

5.6°C

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Client Project ID: UPCO/3994018

Report Number: PUB1616

TestAmerica Laboratories, Inc.
Sampled: 02/25/11
Received: 02/25/11
Issued: 03/22/11

CASE NARRATIVE

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLE MATRIX	ANALYSES	LABORATORY PERFORMING ANALYSES
PUB1616-01	MW-4	Water	Perchlorate by IC/MS-I	Exova

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

HOLDING TIMES: Holding Times were met.

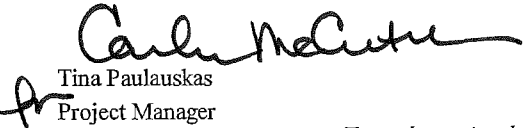
PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: See attached report from subcontracted laboratory for QA/QC information.

OBSERVATIONS: No significant observations were made.

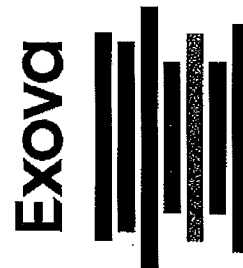
SUBCONTRACTED: One or more samples were subcontracted to Exova, 9240 Santa Fe Springs Rd., Santa Fe Springs, CA 90670 for the analyses listed above. Results are attached.

TESTAMERICA - PHOENIX, AZ ()


Tina Paulauskas
Project Manager

Exova
9240 Santa Fe Springs Road
Santa Fe Springs
California
USA
90670

T: +1 (562) 948-2225
F: +1 (562) 948-6850
E: info400@exova.com
W: www.exova.com



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Certificate of Analysis

March 18, 2011

TestAmerica - Phoenix
4625 E Cotton Center Blvd
Bldg 3, Suite 189
Phoenix, AZ 85040

Exova Job No: 129233
Purchase Order: PUB1616
Project Name: Perchlorate Testing
Samples Received: One (1) Sample
Date Received: 03/04/2011

Attn: Carlene McCutcheon

JF

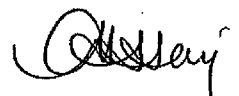
Analysis

Page

Perchlorate by EPA 332

2


Patricia Metzger
Senior Chemist


Samina N. Hussain
Senior Chemist

Perchlorate by EPA 332

Sample ID
PUB1616-01A (MW-4 - Water)
Blank

Parts per Billion (µg/L)
0.61
ND

Detection Limit

0.02

Date Analyzed: 03-09-11

Quality Control Summary

Sample ID: Batch QC

<u>Compound</u>	<u>Sample Result</u>	<u>Spike Conc</u>	<u>Spike Result</u>	<u>Spike % Rec</u>	<u>Spike Dup Result</u>	<u>Spike Dup % Rec</u>	<u>Spike RPD</u>
Perchlorate	0.71	5.00	5.60	98	5.42	94	3

Quality Control Limits

<u>Compound</u>	<u>% Recovery</u>	<u>RPD</u>
Perchlorate	80-120	NMT 15

Subcontract Order - TestAmerica Phoenix (PUB1616)

SENDING LABORATORY:

TestAmerica Phoenix
 4625 East Cotton Center Blvd. Ste 189
 Phoenix, AZ 85040
 Phone: (602) 437-3340
 Fax: (602) 454-9303
 Project Manager: Carlene McCutcheon

RECEIVING LABORATORY:

Exova
 9240 Santa Fe Springs Rd.
 Santa Fe Springs, CA 90670
 Phone: (562) 948-2225
 Fax: (562) 948-5850
 Project Location: Arizona
 Receipt Temperature: 3 °C Ice: / N

Standard TAT is requested unless specific due date is requested. => Due Date: _____ Initials: _____

Analysis	Units	Expires	Comments
----------	-------	---------	----------

Sample ID: PUB1616-01 (MW-4 - Water)

Sampled: 02/25/11 09:49

Perchlorate by IC/MS-I	mg/l	03/25/11 09:49	
------------------------	------	----------------	--

Containers Supplied:
 250 ml Poly (A) ~


 Released By _____

3/3/11 1700
 Date/Time _____

129233

Fedex 03-03-11 17:00
 Received By _____ Date/Time _____

FedEx
 Released By _____

 Date/Time _____

Yvonne M. Ryz 03-04-11 18:58
 Received By _____ Date/Time _____

TestAmerica

CHAIN OF CUSTODY FORM

THE LEADER IN ENVIRONMENTAL TESTING

TAL-0013-550 (10/10)

[] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303

[] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803

[] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Page _____ of _____

Client Name / Address: Malcolm Pirnie Inc 4646 E Van Buren St Ste 400 Phoenix AZ 85008			Project / PO Number: UP60/3994018				Analysis Required															
Project Manager: Greg Guimond			Phone Number: 602-241-1770				332 perchlorate															
Sampler: Bryan Brochner			Fax Number: 602-731-0130																			
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives															Special Instructions	
MW-4	GW	500ml poly	1	2/25/11	11:49	None	X														PUB 1616-01	
BB																						
Relinquished By: _____ Date/Time: 2/25/11 18:05						Received By: _____ Date/Time: _____						Turnaround Time: (Check) same day _____ 72 hours _____ 24 hours _____ 5 days _____ 48 hours _____ normal _____										
Relinquished By: _____ Date/Time: _____						Received By: _____ Date/Time: _____						Sample Integrity: (Check) intact <u>X</u> on ice <u>X</u>										
Relinquished By: _____ Date/Time: _____						Received in Lab By: _____ Date/Time: 2/25/11 18:05																

Note: By relinquishing samples to TestAmerica, 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.

3-2°C

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Client Project ID: UPCO/3994018

Report Number: PUB1617

TestAmerica Laboratories, Inc.
Sampled: 02/25/11
Received: 02/25/11
Issued: 03/22/11

CASE NARRATIVE

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLE MATRIX	ANALYSES	LABORATORY PERFORMING ANALYSES
PUB1617-01	MW-10	Water	Perchlorate by IC/MS-I	Exova

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: See attached report from subcontracted laboratory for QA/QC information.

OBSERVATIONS: No significant observations were made.

SUBCONTRACTED: One or more samples were subcontracted to Exova, 9240 Santa Fe Springs Rd., Santa Fe Springs, CA 90670 for the analyses listed above. Results are attached.

TESTAMERICA - PHOENIX, AZ ()


Tina Paulauskas
Project Manager

PUB1617
Page 1 of 1

Exova
9240 Santa Fe Springs Road
Santa Fe Springs
California
USA
90670

T: +1 (562) 948-2225
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W: www.exova.com



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March 18, 2011

TestAmerica - Phoenix
4625 E Cotton Center Blvd
Bldg 3, Suite 189
Phoenix, AZ 85040

Exova Job No: 129226
Purchase Order: PUB1617
Project Name: Perchlorate Testing
Samples Received: One (1) Sample
Date Received: 03/04/2011

Attn: Carlene McCutcheon

JF


Analysis

Page

Perchlorate by EPA 332

2


Patricia Metzger
Senior Chemist


Samina N. Hussain
Senior Chemist

Perchlorate by EPA 332

Sample ID
PUB1617-01A (MW-10 - Water)
Blank

Detection Limit

Date Analyzed: 03-09-11

Parts per Billion (µg/L)
1.0
ND

0.02

Quality Control Summary

Sample ID: Batch QC

<u>Compound</u>	<u>Sample Result</u>	<u>Spike Conc</u>	<u>Spike Result</u>	<u>Spike % Rec</u>	<u>Spike Dup Result</u>	<u>Spike Dup % Rec</u>	<u>Spike RPD</u>
Perchlorate	0.71	5.00	5.60	98	5.42	94	3

Quality Control Limits

<u>Compound</u>	<u>% Recovery</u>	<u>RPD</u>
Perchlorate	80-120	NMT 15

Subcontract Order - TestAmerica Phoenix (PUB1617)

SENDING LABORATORY:

TestAmerica Phoenix
 4625 East Cotton Center Blvd. Ste 189
 Phoenix, AZ 85040
 Phone: (602) 437-3340
 Fax: (602) 454-9303
 Project Manager: Carlene McCutcheon

RECEIVING LABORATORY:

Exova
 9240 Santa Fe Springs Rd.
 Santa Fe Springs, CA 90670
 Phone : (562) 948-2225
 Fax: (562) 948-5850
 Project Location: Arizona
 Receipt Temperature: 3 °C Ice: Y N

Standard TAT is requested unless specific due date is requested. => Due Date: _____ Initials: _____


Analysis	Units	Expires	Comments
----------	-------	---------	----------

Sample ID: PUB1617-01 (MW-10 - Water)

Sampled: 02/25/11 12:02

Perchlorate by IC/MS-I	mg/l	03/25/11 12:02	
------------------------	------	----------------	--

Containers Supplied:
 250 ml Poly (A) ✓


 Released By _____
 Date/Time 3/3/11 17:00

Released By FedEx
 Date/Time _____

129226

Received By FedEx 03-03-11 17:00
 Date/Time _____

Received By Yves M By 03-04-11/18:58
 Date/Time _____

THE LEADER IN ENVIRONMENTAL TESTING

TAL-0013-550 (10/10)

- Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
- Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
- Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Page _____ of _____

Client Name / Address: Malcolm Pirnie Inc. 4646 E Van Buren St Ste 400 Phoenix AZ 85008			Project / PO Number: UPCO/3994018				Analysis Required												
Project Manager: Greg Cannon			Phone Number: 602-241-1970				352 perchlorate												
Sampler: Brian Brockman			Fax Number: 602-231-0131																
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives											Special Instructions		
MW-10	GW	500ml poly	1	7/28/11	12:02	None	X										PUB 11617-01		
(A large diagonal line is drawn across the remaining empty rows of the table.)																			
Relinquished By: [Signature]			Date/Time: 7/25/11 18:05		Received By: [Signature]			Date/Time:			Turnaround Time: (Check) same day _____ 72 hours _____ 24 hours _____ 5 days _____ 48 hours _____ normal _____								
Relinquished By:			Date/Time:		Received By:			Date/Time:			Sample Integrity: (Check) intact <input checked="" type="checkbox"/> on ice <input checked="" type="checkbox"/>								
Relinquished By:			Date/Time:		Received in Lab By: [Signature]			Date/Time: 7/25/11 1805											

Note: By relinquishing samples to TestAmerica, 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.

32°C

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Client Project ID: UPCO/3994018

Report Number: PUB1618

TestAmerica Laboratories, Inc.
Sampled: 02/25/11
Received: 02/25/11
Issued: 03/23/11

CASE NARRATIVE

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLE MATRIX	ANALYSES	LABORATORY PERFORMING ANALYSES
PUB1618-01	MW-7	Water	Perchlorate by IC/MS-I	Exova

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: See attached report from subcontracted laboratory for QA/QC information.

OBSERVATIONS: No significant observations were made.

SUBCONTRACTED: One or more samples were subcontracted to Exova, 9240 Santa Fe Springs Rd., Santa Fe Springs, CA 90670 for the analyses listed above. Results are attached.

TESTAMERICA - PHOENIX, AZ ()



Tina Paulauskas
Project Manager

PUB1618
Page 1 of 1

Exova
9240 Santa Fe Springs Road
Santa Fe Springs
California
USA
90670

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F: +1 (562) 948-6850
E: info400@exova.com
W: www.exova.com



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March 18, 2011

TestAmerica - Phoenix
4625 E Cotton Center Blvd
Bldg 3, Suite 189
Phoenix, AZ 85040

Exova Job No: 129220
Purchase Order: PUB1618
Project Name: Perchlorate Testing
Samples Received: One (1) Sample
Date Received: 03/04/2011

Attn: Carlene McCutcheon


JF

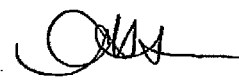
Analysis

Page

Perchlorate by EPA 332

2


Patricia Metzger
Senior Chemist


Samina N. Hussain
Senior Chemist

Perchlorate by EPA 332

<u>Sample ID</u>	<u>Parts per Billion (µg/L)</u>
PUB1618-01A (MW-7 - Water)	0.65
Blank	ND
Detection Limit	0.02

Date Analyzed: 03-09-11

Quality Control Summary

Sample ID: Batch QC

<u>Compound</u>	<u>Sample Result</u>	<u>Spike Conc</u>	<u>Spike Result</u>	<u>Spike % Rec</u>	<u>Spike Dup Result</u>	<u>Spike Dup % Rec</u>	<u>Spike RPD</u>
Perchlorate	0.71	5.00	5.60	98	5.42	94	3

Quality Control Limits

<u>Compound</u>	<u>% Recovery</u>	<u>RPD</u>
Perchlorate	80-120	NMT 15

Subcontract Order - TestAmerica Phoenix (PUB1618)

SENDING LABORATORY:


TestAmerica Phoenix
 4625 East Cotton Center Blvd. Ste 189
 Phoenix, AZ 85040
 Phone: (602) 437-3340
 Fax: (602) 454-9303
 Project Manager: Carlene McCutcheon

RECEIVING LABORATORY:

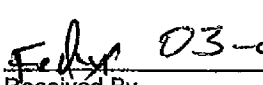
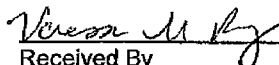
Exova
 9240 Santa Fe Springs Rd.
 Santa Fe Springs, CA 90670
 Phone: (562) 948-2225
 Fax: (562) 948-5850
 Project Location: Arizona
 Receipt Temperature: 3 °C Ice: (Y) / N

Standard TAT is requested unless specific due date is requested. => Due Date: _____ Initials: _____

Analysis	Units	Expires	Comments
Sample ID: PUB1618-01 (MW-7 - Water)			
Perchlorate by IC/MS-I	mg/l	03/25/11 14:00	Sampled: 02/25/11 14:00
Containers Supplied: 250 ml Poly (A) <i>~</i>			


 Released By _____ Date/Time 03/11/11 17:00
 Released By FedEx _____ Date/Time _____

129220


 Received By _____ Date/Time 03-03-11 17:00

 Received By _____ Date/Time 03-04-11/18:56

THE LEADER IN ENVIRONMENTAL TESTING
TAL-0013-550 (10/10)

[] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
 [] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
 [] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Page _____ of _____

Client Name/Address: Malcolm Pirnie, Inc 4646 E Van Buren St Ste 400 Phoenix AZ 85008			Project/PO Number: JP 60/3994018				Analysis Required																				
Project Manager: Greg Sumner			Phone Number: 602-241-1770				332 per sample																				
Sampler: Brian Brochner			Fax Number: 602-231-0131																								
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives															Special Instructions						
MW-7	GN	500ml poly	1	7/23/11	14:00	None	X														PUB1618-01						
BAD																											
Relinquished By: <i>[Signature]</i>						Date/Time: 7/23/11 18:05						Received By: <i>[Signature]</i>						Date/Time:						Turnaround Time: (Check) same day _____ 72 hours _____ 24 hours _____ 5 days _____ 48 hours _____ normal _____			
Relinquished By:						Date/Time:						Received By:						Date/Time:						Sample Integrity: (Check) intact _____ on ice _____			
Relinquished By:						Date/Time:						Received in Lab By: <i>[Signature]</i>						Date/Time: 7/25/11 18:05									

Note: By relinquishing samples to TestAmerica, 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.

3-29

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Client Project ID: UPCO/3994018

Report Number: PUB1619

TestAmerica Laboratories, Inc.
Sampled: 02/25/11
Received: 02/25/11
Issued: 03/23/11

CASE NARRATIVE

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLE MATRIX	ANALYSES	LABORATORY PERFORMING ANALYSES
PUB1619-01	MW-3	Water	Perchlorate by IC/MS-I	Exova

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: See attached report from subcontracted laboratory for QA/QC information.

OBSERVATIONS: No significant observations were made.

SUBCONTRACTED: One or more samples were subcontracted to Exova, 9240 Santa Fe prings Rd., Santa Fe Springs, CA 90670 for the analyses listed above. Results are attached.

TESTAMERICA - PHOENIX, AZ ()


Tina Paulauskas
Project Manager

PUB1619

Page 1 of 1

Exova
9240 Santa Fe Springs Road
Santa Fe Springs
California
USA
90670

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F: +1 (562) 948-5850
E: info400@exova.com
W: www.exova.com



Testing. Advising. Assuring.

Certificate of Analysis

March 18, 2011

TestAmerica - Phoenix
4625 E Cotton Center Blvd
Bldg 3, Suite 189
Phoenix, AZ 85040

Exova Job No: 129219
Purchase Order: PUB1619
Project Name: Perchlorate Testing
Samples Received: One (1) Sample
Date Received: 03/04/2011

Attn: Carlene McCutcheon

JF

Analysis

Page

Perchlorate by EPA 332

2

A handwritten signature in black ink, appearing to read "Patricia Metzger".

Patricia Metzger
Senior Chemist

A handwritten signature in black ink, appearing to read "Samina N. Hussain".

Samina N. Hussain
Senior Chemist

Perchlorate by EPA 332

Sample ID
PUB1619-01A (MW-3 - Water)
Blank

Parts per Billion (µg/L)
0.53
ND

Detection Limit

0.02

Date Analyzed: 03-09-11

Quality Control Summary

Sample ID: Batch QC

<u>Compound</u>	<u>Sample Result</u>	<u>Spike Conc</u>	<u>Spike Result</u>	<u>Spike % Rec</u>	<u>Spike Dup Result</u>	<u>Spike Dup % Rec</u>	<u>Spike RPD</u>
Perchlorate	0.71	5.00	5.60	98	5.42	94	3

Quality Control Limits

<u>Compound</u>	<u>% Recovery</u>	<u>RPD</u>
Perchlorate	80-120	NMT 15

Subcontract Order - TestAmerica Phoenix (PUB1619)

SENDING LABORATORY:

TestAmerica Phoenix
4625 East Cotton Center Blvd. Ste 189
Phoenix, AZ 85040
Phone: (602) 437-3340
Fax: (602) 454-9303
Project Manager: Carlene McCutcheon

RECEIVING LABORATORY:

Exova
9240 Santa Fe Springs Rd.
Santa Fe Springs, CA 90670
Phone: (562) 948-2225
Fax: (562) 948-5850
Project Location: Arizona
Receipt Temperature: 3 °C Ice: Y / N

Standard TAT is requested unless specific due date is requested. => Due Date: _____ Initials: _____

Analysis	Units	Expires	Comments
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Sample ID: PUB1619-01 (MW-3 - Water)

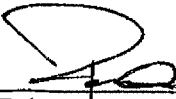
Sampled: 02/25/11 14:55

Perchlorate by IC/MS-I	mg/l	03/25/11 14:55	
------------------------	------	----------------	--

Containers Supplied:

250 ml Poly (A) ~

129219



Released By

3/11/11

Date/Time

Felipe 03-03-11 17:00

Received By Date/Time

FedEx

Released By

Date/Time

Vanessa M. By 03-04-11 18:58

Received By Date/Time

THE LEADER IN ENVIRONMENTAL TESTING
TAL-0013-550 (10/10)

[] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
 [] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
 [] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Page _____ of _____

Client Name / Address: Malcolm Pirnie Inc 4646 E. Van Buren St Ste 400 Phoenix AZ 85008			Project / PO Number: VPCO/3994618				Analysis Required														
Project Manager: Greg Gurnea			Phone Number: 602-241-1770				332 per container														
Sampler: Brian Blochman			Fax Number: 602-231-0137																		
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives														Special Instructions	
MW-3	GN	500ML poly	1	3/23/11	14:55	None	X													PUB 1619-01	
BA																					
Relinquished By:			Date / Time: 3/25/11 18:05		Received By:			Date / Time:		Turnaround Time: (Check)											
Relinquished By:			Date / Time:		Received By:			Date / Time:		same day _____ 72 hours _____											
Relinquished By:			Date / Time:		Received in Lab By:			Date / Time: 2/25/11 1805		24 hours _____ 5 days _____											
Relinquished By:			Date / Time:		Received in Lab By:			Date / Time:		48 hours _____ normal _____											
Relinquished By:			Date / Time:		Received in Lab By:			Date / Time:		Sample Integrity: (Check)											
Relinquished By:			Date / Time:		Received in Lab By:			Date / Time:		intact <input checked="" type="checkbox"/> on ice <input checked="" type="checkbox"/>											

Note: By relinquishing samples to TestAmerica, 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.

3.2°C

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Client Project ID: UPCO/3994018

Report Number: PUB1676

TestAmerica Laboratories, Inc.
Sampled: 02/28/11
Received: 02/28/11
Issued: 03/23/11

CASE NARRATIVE

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLE MATRIX	ANALYSES	LABORATORY PERFORMING ANALYSES
PUB1676-01	MW-11	Water	Perchlorate by IC/MS-I	Exova

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: See attached report from subcontracted laboratory for QA/QC information.

OBSERVATIONS: No significant observations were made.

SUBCONTRACTED: One or more samples were subcontracted to Exova, 9240 Santa Fe Sprins Rd., Santa Fe Springs, CA 90670 for the analyses listed above. Results are attached.

TESTAMERICA - PHOENIX, AZ 0


Tina Paulauskas
Project Manager

PUB1676
Page 1 of 1

Exova
9240 Santa Fe Springs Road
Santa Fe Springs
California
USA
90670

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F: +1 (562) 948-5850
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W: www.exova.com



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March 18, 2011

TestAmerica - Phoenix
4625 E Cotton Center Blvd
Bldg 3, Suite 189
Phoenix, AZ 85040

Exova Job No: 129231
Purchase Order: PUB1676
Project Name: Perchlorate Testing
Samples Received: One (1) Sample
Date Received: 03/04/2011

Attn: Carlene McCutcheon

JF

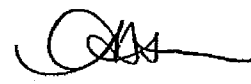
Analysis

Page

Perchlorate by EPA 332

2


Patricia Metzger
Senior Chemist


Samina N. Hussain
Senior Chemist

Perchlorate by EPA 332

Sample ID
 PUB1676-01A (MW-11 - Water)
 Blank

Parts per Billion (µg/L)
 2.2
 ND

Detection Limit

0.02

Date Analyzed: 03-09-11

Quality Control Summary

Sample ID: Batch QC

<u>Compound</u>	<u>Sample Result</u>	<u>Spike Conc</u>	<u>Spike Result</u>	<u>Spike % Rec</u>	<u>Spike Dup Result</u>	<u>Spike Dup % Rec</u>	<u>Spike RPD</u>
Perchlorate	0.71	5.00	5.60	98	5.42	94	3

Quality Control Limits

<u>Compound</u>	<u>% Recovery</u>	<u>RPD</u>
Perchlorate	80-120	NMT 15

Subcontract Order - TestAmerica Phoenix (PUB1676)

SENDING LABORATORY:

TestAmerica Phoenix
4625 East Cotton Center Blvd. Ste 189
Phoenix, AZ 85040
Phone: (602) 437-3340
Fax: (602) 454-9303
Project Manager: Carlene McCutcheon

RECEIVING LABORATORY:

Exova
9240 Santa Fe Springs Rd.
Santa Fe Springs, CA 90670
Phone: (562) 948-2225
Fax: (562) 948-5850
Project Location: Arizona
Receipt Temperature: 3 °C Ice: (Y) / N

Standard TAT is requested unless specific due date is requested. => Due Date: _____ Initials: _____

Analysis	Units	Expires	Comments
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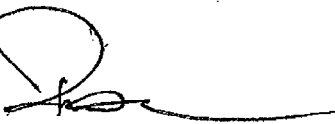
Sample ID: PUB1676-01 (MW-11 - Water)

Sampled: 02/28/11 15:10

Perchlorate by IC/MS-I	mg/l	03/28/11 15:10	
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Containers Supplied:
250 ml Poly (A) ~

129231



Released By

3/3/11 17:00

Date/Time

Fedy 03-03-11 17:00

Received By Date/Time

FedEx

Released By

Date/Time

Vessa M Pj 03-04-11 / 18:58

Received By Date/Time

THE LEADER IN ENVIRONMENTAL TESTING
TAL-0013-550 (10/10)

[] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
 [] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
 [] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Page 1 of 1

Client Name / Address: <i>Malcolm Pirnie Inc 4646 E Van Buren St Ste 400 Phoenix AZ 85008</i>			Project / PO Number: <i>UPCO/3994018</i>				Analysis Required															
Project Manager: <i>Greg Guimond</i>			Phone Number: <i>602-214-1770</i>				<i>332 perchlorate</i>															
Sampler: <i>Brian Brochman</i>			Fax Number: <i>602-231-0131</i>																			
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives															Special Instructions	
<i>MW-11</i>	<i>GW</i>	<i>500 ml poly</i>	<i>1</i>	<i>2/28/11</i>	<i>15:10</i>	<i>None</i>															<i>PUB1676-01</i>	
<i>BB</i>																						
Relinquished By: <i>[Signature]</i>			Date / Time: <i>2/28/11 17:20</i>		Received By: <i>[Signature]</i>			Date / Time:		Turnaround Time: (Check)												
Relinquished By:			Date / Time:		Received By:			Date / Time:		same day		72 hours		24 hours		5 days		48 hours		normal <input checked="" type="checkbox"/>		
Relinquished By:			Date / Time:		Received in Lab By: <i>[Signature]</i>			Date / Time: <i>2/28/11 1720</i>		Sample Integrity: (Check)												
										intact <input checked="" type="checkbox"/>		on ice <input checked="" type="checkbox"/>								<i>2-10c</i>		

Note: By relinquishing samples to TestAmerica, 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.

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Client Project ID: UPCO/3994018
Report Number: PUC0074

TestAmerica Laboratories, Inc.
Sampled: 03/01/11
Received: 03/01/11
Issued: 03/25/11

CASE NARRATIVE

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLE MATRIX	ANALYSES	LABORATORY PERFORMING ANALYSES
PUC0074-01	MW-15	Water	Perchlorate by IC/MS-I	Exova

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

HOLDING TIMES: Holding Times were met.

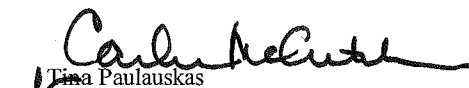
PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: See attached report from subcontracted laboratory for QA/QC information.

OBSERVATIONS: No significant observations were made.

SUBCONTRACTED: One or more samples were subcontracted to Exova, 9240 Santa Fe Springs Rd., Santa Fe Springs, CA 90670 for the analyses listed above. Results are attached.

TESTAMERICA - PHOENIX, AZ ()


Tina Paulauskas
Project Manager

PUC0074

Page 1 of 1

Exova
9240 Santa Fe Springs Road
Santa Fe Springs
California
USA
90670

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F: +1 (562) 948-5850
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W: www.exova.com



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March 18, 2011

TestAmerica - Phoenix
4625 E Cotton Center Blvd
Bldg 3, Suite 189
Phoenix, AZ 85040

Exova Job No: 129232
Purchase Order: PUC0074
Project Name: Perchlorate Testing
Samples Received: One (1) Sample
Date Received: 03/04/2011

Attn: Carlene McCutcheon


JF

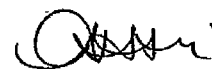
Analysis

Page

Perchlorate by EPA 332

2


Patricia Metzger
Senior Chemist


Samina N. Hussain
Senior Chemist

Perchlorate by EPA 332

Sample ID
 PUC0074-01A (MW-15 - Water)
 Blank
 Detection Limit
 Date Analyzed: 03-09-11

Parts per Billion (µg/L)
 0.79
 ND
 0.02

Quality Control Summary

Sample ID: Batch QC

<u>Compound</u>	<u>Sample Result</u>	<u>Spike Conc</u>	<u>Spike Result</u>	<u>Spike % Rec</u>	<u>Spike Dup Result</u>	<u>Spike Dup % Rec</u>	<u>Spike RPD</u>
Perchlorate	0.71	5.00	5.60	98	5.42	94	3

Quality Control Limits

<u>Compound</u>	<u>% Recovery</u>	<u>RPD</u>
Perchlorate	80-120	NMT 15

Subcontract Order - TestAmerica Phoenix (PUC0074)

SENDING LABORATORY:

TestAmerica Phoenix
 4625 East Cotton Center Blvd. Ste 189
 Phoenix, AZ 85040
 Phone: (602) 437-3340
 Fax: (602) 454-9303
 Project Manager: Carlene McCutcheon

RECEIVING LABORATORY:

Exova
 9240 Santa Fe Springs Rd.
 Santa Fe Springs, CA 90670
 Phone : (562) 948-2225
 Fax: (562) 948-5850
 Project Location: Arizona
 Receipt Temperature: 3 °C Ice: Y / N

Standard TAT is requested unless specific due date is requested. => Due Date: _____ Initials: _____


Analysis	Units	Expires	Comments
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Sample ID: PUC0074-01 (MW-15 - Water)

Sampled: 03/01/11 10:02

Perchlorate by IC/MS-I	mg/l	03/29/11 10:02	
------------------------	------	----------------	--

Containers Supplied:
 250 ml Poly (A) ✓


 Released By _____
 Date/Time 3/3/11 17:00

Released By FedEx
 Date/Time _____

129232

FedEx 03-03-11 17:00
 Received By _____
 Date/Time _____

Verna M. By
 Received By _____
 Date/Time 03-04-11/18:58

- Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
- Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
- Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

THE LEADER IN ENVIRONMENTAL TESTING
TAL-0013-550 (10/10)

Client Name / Address: Malcolm Pirnie Inc 4646 E Van Buren St Ste 400 Phoenix AZ 85008			Project / PO Number: UPCO/3992018				Analysis Required											
Project Manager: Greg Sumner			Phone Number: 602-214-1770				352 perchlorate											
Sampler: Brian Brodman			Fax Number: 602-231-0131															
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives											Special Instructions	
MW-15	GW	500ml poly	1	3/1/11	10:02	Name	X											PUC0074-01
BB																		
Relinquished By: 			Date / Time: 3/1/11 17:45		Received By: 			Date / Time:			Turnaround Time: (Check) same day _____ 72 hours _____ 24 hours _____ 5 days <input checked="" type="checkbox"/> 48 hours _____ normal <input checked="" type="checkbox"/>							
Relinquished By:			Date / Time:		Received By:			Date / Time:			Sample Integrity: (Check) intact <input checked="" type="checkbox"/> on ice <input checked="" type="checkbox"/>							
Relinquished By:			Date / Time:		Received in Lab By: 			Date / Time: 3/1/11 1745										

Note: By relinquishing samples to TestAmerica, 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.

DSC

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Client Project ID: UPCO/3994018

Report Number: PUC0075

TestAmerica Laboratories, Inc.
Sampled: 03/01/11
Received: 03/01/11
Issued: 03/25/11

CASE NARRATIVE

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLE MATRIX	ANALYSES	LABORATORY PERFORMING ANALYSES
PUC0075-01	MW-14	Water	Perchlorate by IC/MS-I	Exova

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: See attached report from subcontracted laboratory for QA/QC information.

OBSERVATIONS: No significant observations were made.

SUBCONTRACTED: One or more samples were subcontracted to Exova, 9240 Santa Fe Springs Rd., Santa Fe Springs, CA 90670 for the analyses listed above. Results are attached.

TESTAMERICA - PHOENIX, AZ ()


Tina Paulauskas
Project Manager

PUC0075

Page 1 of 1

Exova
9240 Santa Fe Springs Road
Santa Fe Springs
California
USA
90670

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F: +1 (562) 948-6860
E: info400@exova.com
W: www.exova.com



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March 18, 2011

TestAmerica - Phoenix
4625 E Cotton Center Blvd
Bldg 3, Suite 189
Phoenix, AZ 85040

Exova Job No: 129230
Purchase Order: PUC0075
Project Name: Perchlorate Testing
Samples Received: One (1) Sample
Date Received: 03/04/2011

Attn: Carlene McCutcheon

JF

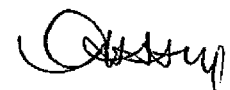
Analysis

Page

Perchlorate by EPA 332

2


Patricia Metzger
Senior Chemist


Samina N. Hussain
Senior Chemist

Perchlorate by EPA 332

Sample ID
PUC0075-01A (MW-14 - Water)
Blank

Parts per Billion (µg/L)
0.90
ND

Detection Limit

0.02

Date Analyzed: 03-09-11

Quality Control Summary

Sample ID: Batch QC

<u>Compound</u>	<u>Sample Result</u>	<u>Spike Conc</u>	<u>Spike Result</u>	<u>Spike % Rec</u>	<u>Spike Dup Result</u>	<u>Spike Dup % Rec</u>	<u>Spike RPD</u>
Perchlorate	0.71	5.00	5.60	98	5.42	94	3

Quality Control Limits

<u>Compound</u>	<u>% Recovery</u>	<u>RPD</u>
Perchlorate	80-120	NMT 15

Subcontract Order - TestAmerica Phoenix (PUC0075)

SENDING LABORATORY:

TestAmerica Phoenix
 4625 East Cotton Center Blvd. Ste 189
 Phoenix, AZ 85040
 Phone: (602) 437-3340
 Fax: (602) 454-9303
 Project Manager: Carlene McCutcheon

RECEIVING LABORATORY:

Exova
 9240 Santa Fe Springs Rd.
 Santa Fe Springs, CA 90670
 Phone : (562) 948-2225
 Fax: (562) 948-5850
 Project Location: Arizona
 Receipt Temperature: 3 °C Ice: (Y) / N

Standard TAT is requested unless specific due date is requested. => Due Date: _____ Initials: _____


Analysis	Units	Expires	Comments
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Sample ID: PUC0075-01 (MW-14 - Water)


Sampled: 03/01/11 08:09

Perchlorate by IC/MS-I	mg/l	03/29/11 08:09	
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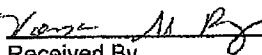
Containers Supplied:
 250 ml Poly (A)


 Released By _____
 Date/Time _____

FedEx
 Released By _____
 Date/Time _____


 03/01/11 17:00
 Date/Time _____

FedEx 03-03-11 17:00
 Received By _____
 Date/Time _____


 Received By _____
 Date/Time 03-04-11/18:58

129230

[] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
 [] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
 [] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

THE LEADER IN ENVIRONMENTAL TESTING

TAL-0013-550 (10/10)

Client Name / Address: Makolm Arnie Inc 4646 E Van Buren St Ste 400 Phoenix AZ 85008			Project / PO Number: UPCO / 3994018			Analysis Required									
Project Manager: Greg Guimond			Phone Number: 602-214-1770			332 per ch brate								Special Instructions PUC 0075-01	
Sampler: Bowen Brochman			Fax Number: 602-231-0131												
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time		Preservatives								
MW-14	GW	500ml poly	1	3/1/11	08:09	None	X								
BB															
Relinquished By: 				Date / Time: 3/1/11 17:45		Received By: 				Date / Time: 3/1/11 1745				Turnaround Time: (Check) same day _____ 72 hours _____ 24 hours _____ 5 days <u> X </u> 48 hours _____ normal _____	
Relinquished By: _____				Date / Time: _____		Received By: _____				Date / Time: _____				Sample Integrity: (Check) intact <u> X </u> on ice <u> X </u>	

Note: By relinquishing samples to TestAmerica, 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.

O.82

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Client Project ID: UPCO/3994018

Report Number: PUC0076

TestAmerica Laboratories, Inc.
Sampled: 03/01/11
Received: 03/01/11
Issued: 03/25/11

CASE NARRATIVE

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLE MATRIX	ANALYSES	LABORATORY PERFORMING ANALYSES
PUC0076-01	MW-8	Water	Perchlorate by IC/MS-I	Exova

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

HOLDING TIMES: Holding Times were met.

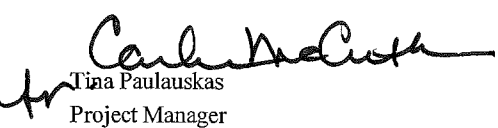
PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: See attached report from subcontracted laboratory for QA/QC information.

OBSERVATIONS: No significant observations were made.

SUBCONTRACTED: One or more samples were subcontracted to Exova, 9240 Santa Fe Springs Rd., Santa Fe Springs, CA 90670 for the analyses listed above. Results are attached.

TESTAMERICA - PHOENIX, AZ ()

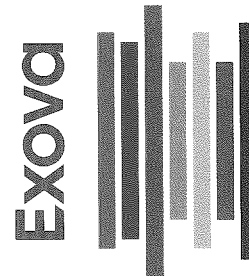

Tina Paulauskas
Project Manager

PUC0076

Page 1 of 1

Exova
9240 Santa Fe Springs Road
Santa Fe Springs
California
USA
90670

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F: +1 (562) 948-5850
E: info400@exova.com
W: www.exova.com



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March 18, 2011

TestAmerica - Phoenix
4625 E Cotton Center Blvd
Bldg 3, Suite 189
Phoenix, AZ 85040

Exova Job No: 129221
Purchase Order: PUC0076
Project Name: Perchlorate Testing
Samples Received: One (1) Sample
Date Received: 03/04/2011

Attn: Carlene McCutcheon

JF


Analysis

Page

Perchlorate by EPA 332

2


Patricia Metzger
Senior Chemist


Samina N. Hussain
Senior Chemist

TestAmerica - Phoenix
 Job No: 129221

Perchlorate by EPA 332

<u>Sample ID</u>	<u>Parts per Billion (µg/L)</u>
PUC0076-01A (MW-8 - Water)	1.1
Blank	ND
Detection Limit	0.02

Date Analyzed: 03-09-11

Quality Control Summary

Sample ID: Batch QC

<u>Compound</u>	<u>Sample Result</u>	<u>Spike Conc</u>	<u>Spike Result</u>	<u>Spike % Rec</u>	<u>Spike Dup Result</u>	<u>Spike Dup % Rec</u>	<u>Spike RPD</u>
Perchlorate	0.71	5.00	5.60	98	5.42	94	3

Quality Control Limits

<u>Compound</u>	<u>% Recovery</u>	<u>RPD</u>
Perchlorate	80-120	NMT 15

Subcontract Order - TestAmerica Phoenix (PUC0076)

SENDING LABORATORY:

TestAmerica Phoenix
4625 East Cotton Center Blvd. Ste 189
Phoenix, AZ 85040
Phone: (602) 437-3340
Fax: (602) 454-9303
Project Manager: Carlene McCutcheon

RECEIVING LABORATORY:

Exova
9240 Santa Fe Springs Rd.
Santa Fe Springs, CA 90670
Phone : (562) 948-2225
Fax: (562) 948-5850
Project Location: Arizona
Receipt Temperature: 3 °C Ice: / N

Standard TAT is requested unless specific due date is requested. => Due Date: _____ Initials: _____

Analysis	Units	Expires	Comments
----------	-------	---------	----------

Sample ID: PUC0076-01 (MW-8 - Water)

Sampled: 03/01/11 11:24

Perchlorate by IC/MS-I	mg/l	03/29/11 11:24	
------------------------	------	----------------	--

Containers Supplied:
250 ml Poly (A) ✓



Released By 3/11/11 17:00
Date/Time

FedEx

Released By Date/Time

129221
FedEx 03-03-11 17:00

Received By Date/Time

Received By 03-04-11 / 18:58
Date/Time

[] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
 [] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
 [] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

THE LEADER IN ENVIRONMENTAL TESTING
 TAL-0013-550 (10/10)

Client Name / Address: Malcolm Pirnie Inc 4646 E Van Buren St Ste 400 Phoenix AZ 85008			Project / PO Number: UPCO/3994018				Analysis Required																						
Project Manager: Greg Guimond			Phone Number: 602-214-1770				332 perchlorate																						
Sampler: Brian Brochmann			Fax Number: 602-231-0131																										
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives														Special Instructions									
MW-8	GW	500ml poly	1	3/1/11	11:24	None	X													PUC 0076-01									
BB																													
Relinquished By: <i>[Signature]</i>						Date/Time: 3/1/11 17:45						Received By: <i>[Signature]</i>						Date/Time:						Turnaround Time: (Check) same day _____ 72 hours _____ 24 hours _____ 5 days _____ 48 hours _____ normal <input checked="" type="checkbox"/>					
Relinquished By:						Date/Time:						Received By:						Date/Time:						Sample Integrity: (Check) intact <input checked="" type="checkbox"/> on ice _____					
Relinquished By:						Date/Time:						Received in Lab By: <i>[Signature]</i>						Date/Time: 3/1/11 1745											

Note: By relinquishing samples to TestAmerica, 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.

0.8°C

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Client Project ID: UPCO/3994018

Report Number: PUC0077

TestAmerica Laboratories, Inc.
Sampled: 03/01/11
Received: 03/01/11
Issued: 03/25/11

CASE NARRATIVE

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLE MATRIX	ANALYSES	LABORATORY PERFORMING ANALYSES
PUC0077-01	MW-9	Water	Perchlorate by IC/MS-I	Exova

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: See attached report from subcontracted laboratory for QA/QC information.

OBSERVATIONS: No significant observations were made.

SUBCONTRACTED: One or more samples were subcontracted to Exova, 9240 Santa Fe Springs Rd., Santa Fe Springs, CA 90670 for the analyses listed above. Results are attached.

TESTAMERICA - PHOENIX, AZ ()


Tina Paulauskas

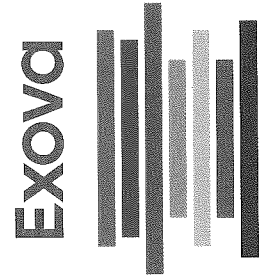
Project Manager

PUC0077

Page 1 of 1

Exova
9240 Santa Fe Springs Road
Santa Fe Springs
California
USA
90670

T: +1 (562) 948-2225
F: +1 (562) 948-5850
E: info400@exova.com
W: www.exova.com



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Certificate of Analysis

March 18, 2011

TestAmerica - Phoenix
4625 E Cotton Center Blvd
Bldg 3, Suite 189
Phoenix, AZ 85040

Exova Job No: 129223
Purchase Order: PUC0077
Project Name: Perchlorate Testing
Samples Received: One (1) Sample
Date Received: 03/04/2011

Attn: Carlene McCutcheon

JF


Analysis

Page

Perchlorate by EPA 332

2


Patricia Metzger
Senior Chemist


Samina N. Hussain
Senior Chemist

Perchlorate by EPA 332

<u>Sample ID</u>	<u>Parts per Billion (µg/L)</u>
PUC0077-01A (MW-9 - Water)	0.75
Blank	ND

Detection Limit 0.02

Date Analyzed: 03-09-11

Quality Control Summary

Sample ID: Batch QC

<u>Compound</u>	<u>Sample Result</u>	<u>Spike Conc</u>	<u>Spike Result</u>	<u>Spike % Rec</u>	<u>Spike Dup Result</u>	<u>Spike Dup % Rec</u>	<u>Spike RPD</u>
Perchlorate	0.71	5.00	5.60	98	5.42	94	3

Quality Control Limits

<u>Compound</u>	<u>% Recovery</u>	<u>RPD</u>
Perchlorate	80-120	NMT 15

Subcontract Order - TestAmerica Phoenix (PUC0077)

SENDING LABORATORY:

TestAmerica Phoenix
4625 East Cotton Center Blvd. Ste 189
Phoenix, AZ 85040
Phone: (602) 437-3340
Fax: (602) 454-9303
Project Manager: Carlene McCutcheon

RECEIVING LABORATORY:

Exova
9240 Santa Fe Springs Rd.
Santa Fe Springs, CA 90670
Phone : (562) 948-2225
Fax: (562) 948-5850
Project Location: Arizona
Receipt Temperature: 3 °C Ice: Y / N

Standard TAT is requested unless specific due date is requested. => Due Date: _____ Initials: _____

Analysis	Units	Expires	Comments
----------	-------	---------	----------

Sample ID: PUC0077-01 (MW-9 - Water)

Sampled: 03/01/11 13:16

Perchlorate by IC/MS-I	mg/l	03/29/11 13:16	
------------------------	------	----------------	--

Containers Supplied:

250 ml Poly (A) ~

129223


Released By _____
Date/Time 3/3/11 17:00

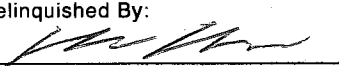
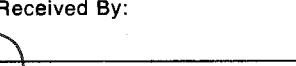
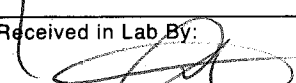
Exova
Released By _____
Date/Time _____

Exova 03-03-11 17:00
Received By _____
Date/Time _____

Theresa M. By 03-04-11 18:56
Received By _____
Date/Time _____

[] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
 [] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
 [] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

THE LEADER IN ENVIRONMENTAL TESTING
 TAL-0013-550 (10/10)

Client Name/Address: Maleson Pinnacle Inc 4646 E Van Buren St Ste 400 Phoenix AZ 85006			Project/PO Number: VPLD/3994015				Analysis Required																									
Project Manager: Greg Gannon			Phone Number: 602-214-1770				BBB per chilton dte																									
Sampler: Brian Broshman			Fax Number: 602-231-0131																													
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives														Special Instructions												
MW-9	GW	500ml poly	1	3/1/11	13:16	None	X													PUC0077-01												
BB																																
Relinquished By: 						Date/Time: 3/1/11 17:45						Received By: 						Date/Time:						Turnaround Time: (Check)								
Relinquished By:						Date/Time:						Received By:						Date/Time:						24 hours _____			72 hours _____					
Relinquished By:						Date/Time:						Received in Lab By: 						Date/Time: 3/1/11 1745						48 hours _____			5 days _____			normal <input checked="" type="checkbox"/>		
Relinquished By:						Date/Time:						Sample Integrity: (Check)						intact <input checked="" type="checkbox"/>			on ice <input checked="" type="checkbox"/>											

Note: By relinquishing samples to TestAmerica, 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.

0.82

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Client Project ID: UPCO/3994018

Report Number: PUC0078

TestAmerica Laboratories, Inc.
Sampled: 03/01/11
Received: 03/01/11
Issued: 03/25/11

CASE NARRATIVE

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLE MATRIX	ANALYSES	LABORATORY PERFORMING ANALYSES
PUC0078-01	MW-12	Water	Perchlorate by IC/MS-I	Exova

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

HOLDING TIMES: Holding Times were met.

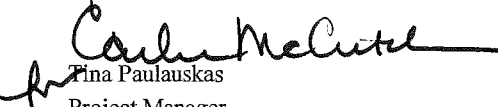
PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: See attached report from subcontracted laboratory for QA/QC information.

OBSERVATIONS: No significant observations were made.

SUBCONTRACTED: One or more samples were subcontracted to Exova, 9240 Santa Fe Springs Rd., Santa Fe Springs, CA 90670 for the analyses listed above. Results are attached.

TESTAMERICA - PHOENIX, AZ ()


Tina Paulauskas
Project Manager

PUC0078
Page 1 of 1

Exova
9240 Santa Fe Springs Road
Santa Fe Springs
California
USA
90670

T: +1 (562) 948-2225
F: +1 (562) 948-5850
E: info400@exova.com
W: www.exova.com



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Certificate of Analysis

March 18, 2011

TestAmerica - Phoenix
4625 E Cotton Center Blvd
Bldg 3, Suite 189
Phoenix, AZ 85040

Exova Job No: 129218
Purchase Order: PUC0078
Project Name: Perchlorate Testing
Samples Received: One (1) Sample
Date Received: 03/04/2011

Attn: Carlene McCutcheon

JF


Analysis

Page

Perchlorate by EPA 332

2


Patricia Metzger
Senior Chemist


Samina N. Hussain
Senior Chemist

Perchlorate by EPA 332

Sample ID
PUC0078-01A (MW-12 - Water)
Blank

Parts per Billion (µg/L)
0.79
ND

Detection Limit

0.02

Date Analyzed: 03-09-11

Quality Control Summary

Sample ID: Batch QC

<u>Compound</u>	<u>Sample Result</u>	<u>Spike Conc</u>	<u>Spike Result</u>	<u>Spike % Rec</u>	<u>Spike Dup Result</u>	<u>Spike Dup % Rec</u>	<u>Spike RPD</u>
Perchlorate	0.71	5.00	5.60	98	5.42	94	3

Quality Control Limits

<u>Compound</u>	<u>% Recovery</u>	<u>RPD</u>
Perchlorate	80-120	NMT 15

Subcontract Order - TestAmerica Phoenix (PUC0078)

SENDING LABORATORY:


TestAmerica Phoenix
 4625 East Cotton Center Blvd. Ste 189
 Phoenix, AZ 85040
 Phone: (602) 437-3340
 Fax: (602) 454-9303
 Project Manager: Carlene McCutcheon

RECEIVING LABORATORY:

Exova
 9240 Santa Fe Springs Rd.
 Santa Fe Springs, CA 90670
 Phone : (562) 948-2225
 Fax: (562) 948-5850
 Project Location: Arizona
 Receipt Temperature: 3 °C Ice: Y / N

Standard TAT is requested unless specific due date is requested. => Due Date: _____ Initials: _____

Analysis	Units	Expires	Comments
Sample ID: PUC0078-01 (MW-12 - Water)			
Perchlorate by IC/MS-I	mg/l	03/29/11 15:54	Sampled: 03/01/11 15:54
<i>Containers Supplied:</i> 250 ml Poly (A) <u>~</u>			



Released By _____
 Released By FedEx

3/31/11 17:00

Date/Time _____
 Date/Time _____

129218

FedEx 03-03-11 17:00

Received By _____
 Received By Wesley M. By

Date/Time _____
 Date/Time 03-04-11/18:58

THE LEADER IN ENVIRONMENTAL TESTING
TAL-0013-550 (10/10)

[] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
 [] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
 [] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Page 1 of 1

Client Name/Address: <i>Malcolm Pirnie Inc 4646 E Van Buren St. Ste 400 Phoenix AZ 85008</i>							Project/PO Number: <i>UPCO/3994018</i>							Analysis Required																		
Project Manager: <i>Greg Gurnond</i>							Phone Number: <i>602-214-1770</i>							<i>332 perchlorate</i>																		
Sampler: <i>Brian Brochmann</i>							Fax Number: <i>602-231-0131</i>																									
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives															Special Instructions											
<i>MW-12</i>	<i>GW</i>	<i>500ml poly</i>	<i>1</i>	<i>3/1/11</i>	<i>15:54</i>	<i>None</i>	<i>X</i>															<i>PUC 0078-01</i>										
<i>BB</i>																																
Relinquished By: <i>[Signature]</i>							Date/Time: <i>3/1/11 17:45</i>							Received By: <i>[Signature]</i>							Date/Time:							Turnaround Time: (Check)				
Relinquished By:							Date/Time:							Received By:							Date/Time:							same day _____ 72 hours _____				
Relinquished By:							Date/Time:							Received in Lab By: <i>[Signature]</i>							Date/Time: <i>3/1/11 1745</i>							24 hours _____ 5 days <i>X</i>				
Relinquished By:							Date/Time:							Received in Lab By:							Date/Time:							48 hours _____ normal _____				
Relinquished By:							Date/Time:							Received in Lab By:							Date/Time:							Sample Integrity: (Check)				
Relinquished By:							Date/Time:							Received in Lab By:							Date/Time:							intact <i>X</i> on ice <i>X</i>				

Note: By relinquishing samples to TestAmerica, 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.

O.82

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO 3994018

Sampled: 03/30/11
Received: 03/30/11
Issued: 04/11/11 09:27

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID

PUC1923-01

CLIENT ID

MW-18

MATRIX

Water

SAMPLE RECEIPT: Samples were received intact, at 6°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Reviewed By:



TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO 3994018

Report Number: PUC1923

Sampled: 03/30/11

Received: 03/30/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC1923-01 (MW-18 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 332.0	11D0910	0.50	ND	5	4/8/2011	4/8/2011	D1, M2, E7

TestAmerica Phoenix

Tina Paulauskas
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

PUC1923 <Page 2 of 5>

ARCADIS U.S., Inc. - Phoenix
 4646 E Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO 3994018
 Report Number: PUC1923

Sampled: 03/30/11
 Received: 03/30/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11D0910 Extracted: 04/08/11										
Blank Analyzed: 04/08/2011 (11D0910-BLK1)										
Perchlorate	ND	0.10	ug/l							
LCS Analyzed: 04/08/2011 (11D0910-BS1)										
Perchlorate	4.59	0.10	ug/l	5.00		92	80-120			
Matrix Spike Analyzed: 04/08/2011 (11D0910-MS1)										
Perchlorate	3.81	0.50	ug/l	5.00	ND	76	80-120			M2, E7
Matrix Spike Dup Analyzed: 04/08/2011 (11D0910-MSD1)										
Perchlorate	4.14	0.50	ug/l	5.00	ND	83	80-120	8	20	E7

TestAmerica Phoenix

Tina Paulauskas
 Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO 3994018

Report Number: PUC1923

Sampled: 03/30/11

Received: 03/30/11

DATA QUALIFIERS AND DEFINITIONS

- D1** Sample required dilution due to matrix.
- E7** Concentration estimated. Internal standard recoveries did not meet laboratory acceptance criteria.
- M2** Matrix spike recovery was low; the associated blank spike recovery was acceptable.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica Phoenix

Tina Paulauskas
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced,
except in full, without written permission from TestAmerica.*

PUC1923 <Page 4 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO 3994018

Report Number: PUC1923

Sampled: 03/30/11

Received: 03/30/11

Certification Summary

Subcontracted Laboratories

TestAmerica - Irvine, CA *NELAC Cert #01108CA, California Cert #1197, Arizona Cert #AZ0671, Nevada Cert #CA72-2002-63*

17461 Derian Ave. Suite 100 - Irvine, CA 92614

Method Performed: EPA 332.0

Samples: PUC1923-01

TestAmerica Phoenix

Tina Paulauskas
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced,
except in full, without written permission from TestAmerica.*

PUC1923 <Page 5 of 5>

- [] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
- [] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
- [] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Client Name / Address: Malcolm Pirnie Inc 4646 E Van Buren St Ste 400 Phoenix AZ 85008				Project / PO Number: UPLD 3994018				Analysis Required							
Project Manager: Greg Gammard Sample: Brian Brockman				Phone Number: 602-214-1770 Fax Number: 602-231-0131				33Z percolisate							
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	Special Instructions								
MW-18	EW	500 mL Poly	1	3/30/11	1535	None	X								
												POC1923-01			
Relinquished By: <i>[Signature]</i>				Date / Time: 3/30/11 1715				Received By: <i>[Signature]</i>				Date / Time: 3/30/11 1715			
Relinquished By: <i>[Signature]</i>				Date / Time: 3/30/11 1730				Received By: <i>[Signature]</i>				Date / Time: 3/30/11 1730			
Relinquished By: <i>[Signature]</i>				Date / Time:				Received in Lab By: <i>[Signature]</i>				Date / Time: 3/30/11 1730			
Turnaround Time: (Check) same day _____ 72 hours _____ 24 hours _____ 5 days _____ 48 hours _____ normal <input checked="" type="checkbox"/>												Sample Integrity: (Check) intact <input checked="" type="checkbox"/> on ice <input checked="" type="checkbox"/>			

Note: By relinquishing samples to TestAmerica, 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.

5.62

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO 3994018

Sampled: 04/26/11
Received: 04/26/11
Issued: 05/03/11 12:47

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PUD1525-01	MW-5	Water
PUD1525-02	MW-1	Water
PUD1525-03	MW-2	Water

SAMPLE RECEIPT: Samples were received intact, at 1°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:



TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
 4646 E Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO 3994018

Report Number: PUD1525

Sampled: 04/26/11

Received: 04/26/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUD1525-01 (MW-5 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11D1037	2.0	23	1	4/28/2011	4/28/2011	
Sample ID: PUD1525-02 (MW-1 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11D1037	10	70	5	4/28/2011	4/28/2011	
Sample ID: PUD1525-03 (MW-2 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11D1097	10	87	5	4/29/2011	4/29/2011	

TestAmerica Phoenix

Tina Paulauskas
 Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO 3994018
Report Number: PUD1525

Sampled: 04/26/11
Received: 04/26/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11D1037 Extracted: 04/28/11										
Blank Analyzed: 04/28/2011 (11D1037-BLK1)										
Perchlorate	ND	2.0	ug/l							
LCS Analyzed: 04/28/2011 (11D1037-BS1)										
Perchlorate	24.3	NA	ug/l	25.0		97	85-115			
LCS Dup Analyzed: 04/28/2011 (11D1037-BSD1)										
Perchlorate	24.9	NA	ug/l	25.0		99	85-115	2	15	
Duplicate Analyzed: 04/28/2011 (11D1037-DUP1)										
Perchlorate	71.5	10	ug/l		70.0			2	15	
Matrix Spike Analyzed: 04/28/2011 (11D1037-MS1)										
Perchlorate	31.8	2.0	ug/l	25.0	8.01	95	80-120			
Matrix Spike Dup Analyzed: 04/28/2011 (11D1037-MSD1)										
Perchlorate	31.4	2.0	ug/l	25.0	8.01	93	80-120	1	15	
Batch: 11D1097 Extracted: 04/29/11										
Blank Analyzed: 04/29/2011 (11D1097-BLK1)										
Perchlorate	ND	2.0	ug/l							
LCS Analyzed: 04/29/2011 (11D1097-BS1)										
Perchlorate	24.4	NA	ug/l	25.0		98	85-115			
LCS Dup Analyzed: 04/29/2011 (11D1097-BSD1)										
Perchlorate	23.7	NA	ug/l	25.0		95	85-115	3	15	

TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
 4646 E Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO 3994018

Report Number: PUD1525

Sampled: 04/26/11

Received: 04/26/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11D1097 Extracted: 04/29/11										
Duplicate Analyzed: 04/29/2011 (11D1097-DUP1)										
Perchlorate	86.3	10	ug/l		87.2			1	15	
Source: PUD1525-03										
Matrix Spike Analyzed: 04/29/2011 (11D1097-MS1)										
Perchlorate	41.4	2.0	ug/l	25.0	17.6	95	80-120			
Source: PUD1587-01										
Matrix Spike Dup Analyzed: 04/29/2011 (11D1097-MSD1)										
Perchlorate	41.1	2.0	ug/l	25.0	17.6	94	80-120	0.7	15	
Source: PUD1587-01										

TestAmerica Phoenix

Tina Paulauskas
 Project Manager

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PUD1525 <Page 4 of 6>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO 3994018

Report Number: PUD1525

Sampled: 04/26/11

Received: 04/26/11

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD Relative Percent Difference

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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PUD1525 <Page 5 of 6>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO 3994018

Report Number: PUD1525

Sampled: 04/26/11

Received: 04/26/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 314.0	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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PUD1525 <Page 6 of 6>

THE LEADER IN ENVIRONMENTAL TESTING

TAL-0013-550 (10/10)

- [] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
- [] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
- [] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Page 1 of 1

Client Name / Address: Medcoher Pipe Inc. 4646E Van Buren St. Ste 400 Phoenix AZ 85008			Project / PO Number: VP20 3994018				Analysis Required										
Project Manager: Greg Gwinford			Phone Number: 602-291-1770				314.0 perchlorate										
Sampler: Brian Brochman			Fax Number: 602-231-0131														
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	Special Instructions										
MW-5	GW	500ml poly	1	4/26/11	1052	None	X	PUD1525-01 -02 -03									
MW-1	GW	500ml poly	1	4/26/11	1234	None	X										
MW-2	GW	500ml poly	1	4/26/11	1441	None	X										
P/B																	
Relinquished By:			Date/Time:		Received By:			Date/Time:		Turnaround Time: (Check)							
Brian Brochman			4/26/11 1620							same day _____ 72 hours _____ 24 hours _____ 5 days _____ 48 hours _____ normal <input checked="" type="checkbox"/>							
Relinquished By:			Date/Time:		Received By:			Date/Time:		Sample Integrity: (Check)							
					Received in Lab By: 			4/26/11 1620		intact <input checked="" type="checkbox"/> on ice <input type="checkbox"/> 1.4 ^{ac}							

Note: By relinquishing samples to TestAmerica, 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.

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO 3994018

Sampled: 04/27/11
Received: 04/27/11
Issued: 05/03/11 12:50

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PUD1587-01	MW-6	Water
PUD1587-02	MW-13	Water

SAMPLE RECEIPT: Samples were received intact, at 0.2°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:



TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO 3994018

Report Number: PUD1587

Sampled: 04/27/11

Received: 04/27/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUD1587-01 (MW-6 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11D1097	2.0	18	1	4/29/2011	4/29/2011	
Sample ID: PUD1587-02 (MW-13 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11D1097	2.0	7.0	1	4/29/2011	4/29/2011	

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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PUD1587 <Page 2 of 5>

ARCADIS U.S., Inc. - Phoenix
 4646 E Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO 3994018

Report Number: PUD1587

Sampled: 04/27/11

Received: 04/27/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11D1097 Extracted: 04/29/11										
Blank Analyzed: 04/29/2011 (11D1097-BLK1)										
Perchlorate	ND	2.0	ug/l							
LCS Analyzed: 04/29/2011 (11D1097-BS1)										
Perchlorate	24.4	NA	ug/l	25.0		98	85-115			
LCS Dup Analyzed: 04/29/2011 (11D1097-BSD1)										
Perchlorate	23.7	NA	ug/l	25.0		95	85-115	3	15	
Duplicate Analyzed: 04/29/2011 (11D1097-DUP1)										
Perchlorate	86.3	10	ug/l			87.2		1	15	
Matrix Spike Analyzed: 04/29/2011 (11D1097-MS1)										
Perchlorate	41.4	2.0	ug/l	25.0	17.6	95	80-120			
Matrix Spike Dup Analyzed: 04/29/2011 (11D1097-MSD1)										
Perchlorate	41.1	2.0	ug/l	25.0	17.6	94	80-120	0.7	15	

TestAmerica Phoenix

Tina Paulauskas
 Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO 3994018

Report Number: PUD1587

Sampled: 04/27/11

Received: 04/27/11

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD Relative Percent Difference

TestAmerica Phoenix

Tina Paulauskas
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced,
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PUD1587 <Page 4 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO 3994018

Report Number: PUD1587

Sampled: 04/27/11

Received: 04/27/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 314.0	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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PUD1587 <Page 5 of 5>

THE LEADER IN ENVIRONMENTAL TESTING

[] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
 [] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
 [] Las Vegas - 2520 E. Sunset, Suite 3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

Page 1 of 1

TAL-0013-550 (12/08)

Client Name/Address: <i>Malcolm Pirnie Inc 4646 E Van Buren St Ste 400 Phoenix AZ 85006</i>		Project/PO Number: <i>UPCO 3994016</i>		Analysis Required								
Project Manager: <i>Greg Hammond</i>		Phone Number: <i>602-291-1970</i>		<i>374.0 per sample</i>								
Sampler: <i>Bertram Brochman</i>		Fax Number: <i>602-231-0131</i>										
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives					Special Instructions	
<i>MW-6</i>	<i>GW</i>	<i>500ml poly</i>	<i>1</i>	<i>4/27/11</i>	<i>0818</i>	<i>None</i>	<i>X</i>					<i>PD1587-01</i>
<i>MW-13</i>	<i>GW</i>	<i>500ml poly</i>	<i>1</i>	<i>4/27/11</i>	<i>1155</i>	<i>None</i>	<i>X</i>					<i>-02</i>
<i>BB</i>												
Relinquished By: <i>Bertram Brochman</i>		Date/Time: <i>4/27/11 1328</i>		Received By:		Date/Time:		Turnaround Time: (Check)				
Relinquished By:		Date/Time:		Received By:		Date/Time:		same day _____ 72 hours _____				
Relinquished By:		Date/Time:		Received in Lab By: <i>Carla Melus</i>		Date/Time: <i>4/27/11 1328</i>		24 hours _____ 5 days _____				
Relinquished By:		Date/Time:		Received in Lab By:		Date/Time:		48 hours _____ normal <input checked="" type="checkbox"/>				
Relinquished By:		Date/Time:		Received in Lab By:		Date/Time:		Sample Integrity: (Check)				
Relinquished By:		Date/Time:		Received in Lab By:		Date/Time:		intact <input checked="" type="checkbox"/> on ice <input checked="" type="checkbox"/>				

Note: By relinquishing samples to TestAmerica, 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. *0.2*

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO/3994018

Sampled: 04/28/11
Received: 04/28/11
Issued: 05/10/11 13:28

NELAP #01109CA Arizona DHS#AZ0728

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.
This entire report was reviewed and approved for release.*

CASE NARRATIVE

LABORATORY ID

PUD1699-01
PUD1699-02
PUD1699-03
PUD1699-04
PUD1699-05
PUD1699-06

CLIENT ID

TB042811-1
TB042811-2
MW-17
MW-16
MW-19
FD042811-01

MATRIX

Water
Water
Water
Water
Water
Water

TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUD1699

Sampled: 04/28/11

Received: 04/28/11

SAMPLE RECEIPT: Samples were received intact, at 3°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.
N1-Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).
N1a-The RPD exceeded the acceptance limit due to sample matrix effects.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Reviewed By:



TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUD1699

Sampled: 04/28/11

Received: 04/28/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUD1699-01 (TB042811-1 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11E0170	10	ND	1	5/5/2011	5/5/2011	
Benzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Bromobenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Bromochloromethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Bromodichloromethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Bromoform	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
Bromomethane	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
2-Butanone (MEK)	EPA 8260B	11E0170	2.5	ND	1	5/5/2011	5/5/2011	
n-Butylbenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
sec-Butylbenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
tert-Butylbenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Carbon disulfide	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Carbon tetrachloride	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Chlorobenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Chloroethane	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
Chloroform	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Chloromethane	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
2-Chlorotoluene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
4-Chlorotoluene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Dibromochloromethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11E0170	2.5	ND	1	5/5/2011	5/5/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Dibromomethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,2-Dichlorobenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,3-Dichlorobenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,4-Dichlorobenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Dichlorodifluoromethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,1-Dichloroethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,2-Dichloroethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,1-Dichloroethene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
cis-1,2-Dichloroethene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
trans-1,2-Dichloroethene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,2-Dichloropropane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,3-Dichloropropane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
2,2-Dichloropropane	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
1,1-Dichloropropene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
cis-1,3-Dichloropropene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
trans-1,3-Dichloropropene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Ethylbenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Hexachlorobutadiene	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	

TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUD1699

Sampled: 04/28/11

Received: 04/28/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUD1699-01 (TB042811-1 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11E0170	5.0	ND	1	5/5/2011	5/5/2011	
Iodomethane	EPA 8260B	11E0170	2.5	ND	1	5/5/2011	5/5/2011	
Isopropylbenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
p-Isopropyltoluene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Methylene Chloride	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11E0170	2.5	ND	1	5/5/2011	5/5/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Naphthalene	EPA 8260B	11E0170	2.5	ND	1	5/5/2011	5/5/2011	
n-Propylbenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Styrene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Tetrachloroethene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Toluene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
1,1,1-Trichloroethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,1,2-Trichloroethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Trichloroethene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Trichlorofluoromethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,2,3-Trichloropropane	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Vinyl Acetate	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
Vinyl chloride	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Xylenes, Total	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
Surrogate: Dibromofluoromethane (70-130%)								111 %
Surrogate: Toluene-d8 (70-130%)								100 %
Surrogate: 4-Bromofluorobenzene (70-130%)								102 %

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUD1699

Sampled: 04/28/11

Received: 04/28/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUD1699-03 (MW-17 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11E0170	10	ND	1	5/5/2011	5/5/2011	
Benzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Bromobenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Bromochloromethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Bromodichloromethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Bromoform	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
Bromomethane	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
2-Butanone (MEK)	EPA 8260B	11E0170	2.5	ND	1	5/5/2011	5/5/2011	
n-Butylbenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
sec-Butylbenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
tert-Butylbenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Carbon disulfide	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Carbon tetrachloride	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Chlorobenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Chloroethane	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
Chloroform	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Chloromethane	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
2-Chlorotoluene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
4-Chlorotoluene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Dibromochloromethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11E0170	2.5	ND	1	5/5/2011	5/5/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Dibromomethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,2-Dichlorobenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,3-Dichlorobenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,4-Dichlorobenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Dichlorodifluoromethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,1-Dichloroethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,2-Dichloroethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,1-Dichloroethene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
cis-1,2-Dichloroethene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
trans-1,2-Dichloroethene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,2-Dichloropropane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,3-Dichloropropane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
2,2-Dichloropropane	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
1,1-Dichloropropene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
cis-1,3-Dichloropropene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
trans-1,3-Dichloropropene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Ethylbenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Hexachlorobutadiene	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	

TestAmerica Phoenix

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Project ID: UPCO/3994018

Report Number: PUD1699

Sampled: 04/28/11

Received: 04/28/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUD1699-03 (MW-17 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11E0170	5.0	ND	1	5/5/2011	5/5/2011	
Iodomethane	EPA 8260B	11E0170	2.5	ND	1	5/5/2011	5/5/2011	
Isopropylbenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
p-Isopropyltoluene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Methylene Chloride	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11E0170	2.5	ND	1	5/5/2011	5/5/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Naphthalene	EPA 8260B	11E0170	2.5	ND	1	5/5/2011	5/5/2011	
n-Propylbenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Styrene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Tetrachloroethene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Toluene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
1,1,1-Trichloroethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,1,2-Trichloroethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Trichloroethene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Trichlorofluoromethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,2,3-Trichloropropane	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Vinyl Acetate	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
Vinyl chloride	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Xylenes, Total	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
Surrogate: Dibromofluoromethane (70-130%)								113 %
Surrogate: Toluene-d8 (70-130%)								101 %
Surrogate: 4-Bromofluorobenzene (70-130%)								102 %

TestAmerica Phoenix

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Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUD1699

Sampled: 04/28/11

Received: 04/28/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUD1699-04 (MW-16 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11E0170	10	ND	1	5/5/2011	5/5/2011	
Benzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Bromobenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Bromochloromethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Bromodichloromethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Bromoform	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
Bromomethane	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
2-Butanone (MEK)	EPA 8260B	11E0170	2.5	ND	1	5/5/2011	5/5/2011	
n-Butylbenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
sec-Butylbenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
tert-Butylbenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Carbon disulfide	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Carbon tetrachloride	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Chlorobenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Chloroethane	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
Chloroform	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Chloromethane	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
2-Chlorotoluene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
4-Chlorotoluene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Dibromochloromethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11E0170	2.5	ND	1	5/5/2011	5/5/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Dibromomethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,2-Dichlorobenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,3-Dichlorobenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,4-Dichlorobenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Dichlorodifluoromethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,1-Dichloroethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,2-Dichloroethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,1-Dichloroethene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
cis-1,2-Dichloroethene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
trans-1,2-Dichloroethene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,2-Dichloropropane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,3-Dichloropropane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
2,2-Dichloropropane	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
1,1-Dichloropropene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
cis-1,3-Dichloropropene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
trans-1,3-Dichloropropene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Ethylbenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Hexachlorobutadiene	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	

TestAmerica Phoenix

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Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUD1699

Sampled: 04/28/11

Received: 04/28/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUD1699-04 (MW-16 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11E0170	5.0	ND	1	5/5/2011	5/5/2011	
Iodomethane	EPA 8260B	11E0170	2.5	ND	1	5/5/2011	5/5/2011	
Isopropylbenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
p-Isopropyltoluene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Methylene Chloride	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11E0170	2.5	ND	1	5/5/2011	5/5/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Naphthalene	EPA 8260B	11E0170	2.5	ND	1	5/5/2011	5/5/2011	
n-Propylbenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Styrene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Tetrachloroethene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Toluene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
1,1,1-Trichloroethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,1,2-Trichloroethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Trichloroethene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Trichlorofluoromethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,2,3-Trichloropropane	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Vinyl Acetate	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
Vinyl chloride	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Xylenes, Total	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
Surrogate: Dibromofluoromethane (70-130%)								112 %
Surrogate: Toluene-d8 (70-130%)								101 %
Surrogate: 4-Bromofluorobenzene (70-130%)								97 %

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
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Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUD1699

Sampled: 04/28/11

Received: 04/28/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUD1699-05 (MW-19 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11E0170	10	ND	1	5/5/2011	5/5/2011	
Benzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Bromobenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Bromochloromethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Bromodichloromethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Bromoform	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
Bromomethane	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
2-Butanone (MEK)	EPA 8260B	11E0170	2.5	ND	1	5/5/2011	5/5/2011	
n-Butylbenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
sec-Butylbenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
tert-Butylbenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Carbon disulfide	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Carbon tetrachloride	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Chlorobenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Chloroethane	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
Chloroform	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Chloromethane	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
2-Chlorotoluene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
4-Chlorotoluene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Dibromochloromethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11E0170	2.5	ND	1	5/5/2011	5/5/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Dibromomethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,2-Dichlorobenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,3-Dichlorobenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,4-Dichlorobenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Dichlorodifluoromethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,1-Dichloroethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,2-Dichloroethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,1-Dichloroethene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
cis-1,2-Dichloroethene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
trans-1,2-Dichloroethene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,2-Dichloropropane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,3-Dichloropropane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
2,2-Dichloropropane	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
1,1-Dichloropropene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
cis-1,3-Dichloropropene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
trans-1,3-Dichloropropene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Ethylbenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Hexachlorobutadiene	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	

TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUD1699

Sampled: 04/28/11

Received: 04/28/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUD1699-05 (MW-19 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11E0170	5.0	ND	1	5/5/2011	5/5/2011	
Iodomethane	EPA 8260B	11E0170	2.5	ND	1	5/5/2011	5/5/2011	
Isopropylbenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
p-Isopropyltoluene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Methylene Chloride	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11E0170	2.5	ND	1	5/5/2011	5/5/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Naphthalene	EPA 8260B	11E0170	2.5	ND	1	5/5/2011	5/5/2011	
n-Propylbenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Styrene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Tetrachloroethene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Toluene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
1,1,1-Trichloroethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,1,2-Trichloroethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Trichloroethene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Trichlorofluoromethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,2,3-Trichloropropane	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Vinyl Acetate	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
Vinyl chloride	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Xylenes, Total	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
Surrogate: Dibromofluoromethane (70-130%)								112 %
Surrogate: Toluene-d8 (70-130%)								101 %
Surrogate: 4-Bromofluorobenzene (70-130%)								99 %

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Tina Paulauskas
Project Manager

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PUD1699 <Page 10 of 41>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUD1699

Sampled: 04/28/11
Received: 04/28/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUD1699-06 (FD042811-01 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11E0170	10	ND	1	5/5/2011	5/5/2011	
Benzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Bromobenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Bromochloromethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Bromodichloromethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Bromoform	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
Bromomethane	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
2-Butanone (MEK)	EPA 8260B	11E0170	2.5	ND	1	5/5/2011	5/5/2011	
n-Butylbenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
sec-Butylbenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
tert-Butylbenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Carbon disulfide	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Carbon tetrachloride	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Chlorobenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Chloroethane	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
Chloroform	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Chloromethane	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
2-Chlorotoluene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
4-Chlorotoluene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Dibromochloromethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11E0170	2.5	ND	1	5/5/2011	5/5/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Dibromomethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,2-Dichlorobenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,3-Dichlorobenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,4-Dichlorobenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Dichlorodifluoromethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,1-Dichloroethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,2-Dichloroethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,1-Dichloroethene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
cis-1,2-Dichloroethene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
trans-1,2-Dichloroethene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,2-Dichloropropane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,3-Dichloropropane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
2,2-Dichloropropane	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
1,1-Dichloropropene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
cis-1,3-Dichloropropene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
trans-1,3-Dichloropropene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Ethylbenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Hexachlorobutadiene	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	

TestAmerica Phoenix

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ARCADIS U.S., Inc. - Phoenix
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Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUD1699

Sampled: 04/28/11

Received: 04/28/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUD1699-06 (FD042811-01 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11E0170	5.0	ND	1	5/5/2011	5/5/2011	
Iodomethane	EPA 8260B	11E0170	2.5	ND	1	5/5/2011	5/5/2011	
Isopropylbenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
p-Isopropyltoluene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Methylene Chloride	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11E0170	2.5	ND	1	5/5/2011	5/5/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Naphthalene	EPA 8260B	11E0170	2.5	ND	1	5/5/2011	5/5/2011	
n-Propylbenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Styrene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Tetrachloroethene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Toluene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
1,1,1-Trichloroethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,1,2-Trichloroethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Trichloroethene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Trichlorofluoromethane	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,2,3-Trichloropropane	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Vinyl Acetate	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
Vinyl chloride	EPA 8260B	11E0170	0.50	ND	1	5/5/2011	5/5/2011	
Xylenes, Total	EPA 8260B	11E0170	1.0	ND	1	5/5/2011	5/5/2011	
Surrogate: Dibromofluoromethane (70-130%)								112 %
Surrogate: Toluene-d8 (70-130%)								101 %
Surrogate: 4-Bromofluorobenzene (70-130%)								102 %

TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
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Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUD1699

Sampled: 04/28/11

Received: 04/28/11

TOTAL METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUD1699-03 (MW-17 - Water)								
Reporting Units: mg/l								
Calcium	EPA 200.7	11D1069	2.0	35	1	4/28/2011	5/3/2011	
Magnesium	EPA 200.7	11D1069	2.0	15	1	4/28/2011	5/3/2011	
Mercury	EPA 245.1	11E0034	0.00020	ND	1	5/3/2011	5/3/2011	
Potassium	EPA 200.7	11D1069	2.0	6.8	1	4/28/2011	5/3/2011	
Sodium	EPA 200.7	11D1069	2.0	35	1	4/28/2011	5/3/2011	
Sample ID: PUD1699-04 (MW-16 - Water)								
Reporting Units: mg/l								
Calcium	EPA 200.7	11D1069	2.0	41	1	4/28/2011	5/3/2011	
Magnesium	EPA 200.7	11D1069	2.0	9.5	1	4/28/2011	5/3/2011	
Mercury	EPA 245.1	11E0034	0.00020	ND	1	5/3/2011	5/3/2011	
Potassium	EPA 200.7	11D1069	2.0	2.9	1	4/28/2011	5/3/2011	
Sodium	EPA 200.7	11D1069	2.0	50	1	4/28/2011	5/3/2011	
Sample ID: PUD1699-05 (MW-19 - Water)								
Reporting Units: mg/l								
Calcium	EPA 200.7	11D1069	2.0	30	1	4/28/2011	5/3/2011	
Magnesium	EPA 200.7	11D1069	2.0	12	1	4/28/2011	5/3/2011	
Mercury	EPA 245.1	11E0034	0.00020	ND	1	5/3/2011	5/3/2011	
Potassium	EPA 200.7	11D1069	2.0	7.5	1	4/28/2011	5/3/2011	
Sodium	EPA 200.7	11D1069	2.0	39	1	4/28/2011	5/3/2011	
Sample ID: PUD1699-06 (FD042811-01 - Water)								
Reporting Units: mg/l								
Calcium	EPA 200.7	11D1069	2.0	30	1	4/28/2011	5/3/2011	
Magnesium	EPA 200.7	11D1069	2.0	12	1	4/28/2011	5/3/2011	
Mercury	EPA 245.1	11E0034	0.00020	ND	1	5/3/2011	5/3/2011	
Potassium	EPA 200.7	11D1069	2.0	7.1	1	4/28/2011	5/3/2011	
Sodium	EPA 200.7	11D1069	2.0	37	1	4/28/2011	5/3/2011	

TestAmerica Phoenix

Tina Paulauskas
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Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUD1699

Sampled: 04/28/11

Received: 04/28/11

TOTAL METALS BY ICP/MS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUD1699-03 (MW-17 - Water)								
Reporting Units: mg/l								
Arsenic	EPA 200.8	11D1070	0.0010	0.0071	1	4/28/2011	5/3/2011	
Barium	EPA 200.8	11D1070	0.0050	0.15	5	4/28/2011	5/6/2011	
Cadmium	EPA 200.8	11D1070	0.0050	ND	5	4/28/2011	5/6/2011	D1
Chromium	EPA 200.8	11D1070	0.0010	0.031	1	4/28/2011	5/3/2011	
Lead	EPA 200.8	11D1070	0.0050	0.013	5	4/28/2011	5/6/2011	
Selenium	EPA 200.8	11D1070	0.0020	0.0020	1	4/28/2011	5/3/2011	
Silver	EPA 200.8	11D1070	0.0050	ND	5	4/28/2011	5/6/2011	D1
Sample ID: PUD1699-04 (MW-16 - Water)								
Reporting Units: mg/l								
Arsenic	EPA 200.8	11D1070	0.0010	0.0025	1	4/28/2011	5/3/2011	
Barium	EPA 200.8	11D1070	0.0010	0.11	1	4/28/2011	5/3/2011	
Cadmium	EPA 200.8	11D1070	0.0010	ND	1	4/28/2011	5/3/2011	
Chromium	EPA 200.8	11D1070	0.0010	ND	1	4/28/2011	5/3/2011	
Lead	EPA 200.8	11D1070	0.0010	ND	1	4/28/2011	5/3/2011	
Selenium	EPA 200.8	11D1070	0.0020	ND	1	4/28/2011	5/3/2011	
Silver	EPA 200.8	11D1070	0.0010	ND	1	4/28/2011	5/3/2011	
Sample ID: PUD1699-05 (MW-19 - Water)								
Reporting Units: mg/l								
Arsenic	EPA 200.8	11D1070	0.0010	0.014	1	4/28/2011	5/3/2011	
Barium	EPA 200.8	11D1070	0.0010	0.046	1	4/28/2011	5/3/2011	
Cadmium	EPA 200.8	11D1070	0.0010	ND	1	4/28/2011	5/3/2011	
Chromium	EPA 200.8	11D1070	0.0010	0.024	1	4/28/2011	5/3/2011	
Lead	EPA 200.8	11D1070	0.0010	0.0019	1	4/28/2011	5/3/2011	
Selenium	EPA 200.8	11D1070	0.0020	0.0028	1	4/28/2011	5/3/2011	
Silver	EPA 200.8	11D1070	0.0010	ND	1	4/28/2011	5/3/2011	

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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PUD1699 <Page 14 of 41>

ARCADIS U.S., Inc. - Phoenix
 4646 E Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUD1699

Sampled: 04/28/11

Received: 04/28/11

TOTAL METALS BY ICP/MS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUD1699-06 (FD042811-01 - Water)								
Reporting Units: mg/l								
Arsenic	EPA 200.8	11D1070	0.0010	0.014	1	4/28/2011	5/3/2011	
Barium	EPA 200.8	11D1070	0.0010	0.045	1	4/28/2011	5/3/2011	
Cadmium	EPA 200.8	11D1070	0.0010	ND	1	4/28/2011	5/3/2011	
Chromium	EPA 200.8	11D1070	0.0010	0.025	1	4/28/2011	5/3/2011	
Lead	EPA 200.8	11D1070	0.0010	0.0015	1	4/28/2011	5/3/2011	
Selenium	EPA 200.8	11D1070	0.0020	0.0027	1	4/28/2011	5/3/2011	
Silver	EPA 200.8	11D1070	0.0010	ND	1	4/28/2011	5/3/2011	

TestAmerica Phoenix

Tina Paulauskas
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PUD1699 <Page 15 of 41>

ARCADIS U.S., Inc. - Phoenix
 4646 E Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUD1699

Sampled: 04/28/11

Received: 04/28/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUD1699-03 (MW-17 - Water)								
Reporting Units: mg/l								
Alkalinity as CaCO3	SM 2320B	11E0121	6.0	160	1	5/4/2011	5/4/2011	
Bicarbonate Alkalinity as CaCO3	SM 2320B	11E0121	6.0	160	1	5/4/2011	5/4/2011	
Carbonate Alkalinity as CaCO3	SM 2320B	11E0121	6.0	ND	1	5/4/2011	5/4/2011	
Chloride	EPA 300.0	11D1109	2.0	6.7	1	4/29/2011	4/29/2011	
Hydroxide Alkalinity as CaCO3	SM 2320B	11E0121	6.0	ND	1	5/4/2011	5/4/2011	
Nitrate-N	EPA 300.0	11D1109	0.20	1.1	1	4/29/2011	4/29/2011	
Sulfate	EPA 300.0	11D1109	2.0	9.0	1	4/29/2011	4/29/2011	
Total Dissolved Solids	SM 2540C	11E0075	20	260	1	5/3/2011	5/3/2011	
Alkalinity, Phenolphthalein	SM 2320B	11E0121	6.0	ND	1	5/4/2011	5/4/2011	
Sample ID: PUD1699-03RE1 (MW-17 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11E0076	2.0	ND	1	5/3/2011	5/3/2011	
Sample ID: PUD1699-04 (MW-16 - Water)								
Reporting Units: mg/l								
Alkalinity as CaCO3	SM 2320B	11E0121	6.0	210	1	5/4/2011	5/4/2011	
Bicarbonate Alkalinity as CaCO3	SM 2320B	11E0121	6.0	210	1	5/4/2011	5/4/2011	
Carbonate Alkalinity as CaCO3	SM 2320B	11E0121	6.0	ND	1	5/4/2011	5/4/2011	
Chloride	EPA 300.0	11D1109	2.0	16	1	4/29/2011	4/29/2011	
Hydroxide Alkalinity as CaCO3	SM 2320B	11E0121	6.0	ND	1	5/4/2011	5/4/2011	
Nitrate-N	EPA 300.0	11D1109	0.20	2.0	1	4/29/2011	4/29/2011	
Sulfate	EPA 300.0	11D1109	2.0	9.5	1	4/29/2011	4/29/2011	
Total Dissolved Solids	SM 2540C	11E0075	20	320	1	5/3/2011	5/3/2011	
Alkalinity, Phenolphthalein	SM 2320B	11E0121	6.0	ND	1	5/4/2011	5/4/2011	
Sample ID: PUD1699-04RE1 (MW-16 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11E0076	2.0	ND	1	5/3/2011	5/3/2011	

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Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUD1699

Sampled: 04/28/11

Received: 04/28/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUD1699-05 (MW-19 - Water)								
Reporting Units: mg/l								
Alkalinity as CaCO3	SM 2320B	11E0121	6.0	120	1	5/4/2011	5/4/2011	
Bicarbonate Alkalinity as CaCO3	SM 2320B	11E0121	6.0	120	1	5/4/2011	5/4/2011	
Carbonate Alkalinity as CaCO3	SM 2320B	11E0121	6.0	ND	1	5/4/2011	5/4/2011	
Chloride	EPA 300.0	11D1033	2.0	22	1	4/28/2011	4/29/2011	
Hydroxide Alkalinity as CaCO3	SM 2320B	11E0121	6.0	ND	1	5/4/2011	5/4/2011	
Nitrate-N	EPA 300.0	11D1033	0.20	7.8	1	4/28/2011	4/29/2011	
Sulfate	EPA 300.0	11D1033	2.0	12	1	4/28/2011	4/29/2011	
Total Dissolved Solids	SM 2540C	11E0075	20	350	1	5/3/2011	5/3/2011	
Alkalinity, Phenolphthalein	SM 2320B	11E0121	6.0	ND	1	5/4/2011	5/4/2011	
Sample ID: PUD1699-05RE1 (MW-19 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11E0076	4000	55000	2000	5/3/2011	5/3/2011	
Sample ID: PUD1699-06 (FD042811-01 - Water)								
Reporting Units: mg/l								
Alkalinity as CaCO3	SM 2320B	11E0121	6.0	110	1	5/4/2011	5/4/2011	
Bicarbonate Alkalinity as CaCO3	SM 2320B	11E0121	6.0	110	1	5/4/2011	5/4/2011	
Carbonate Alkalinity as CaCO3	SM 2320B	11E0121	6.0	ND	1	5/4/2011	5/4/2011	
Chloride	EPA 300.0	11D1109	2.0	22	1	4/29/2011	4/29/2011	
Hydroxide Alkalinity as CaCO3	SM 2320B	11E0121	6.0	ND	1	5/4/2011	5/4/2011	
Nitrate-N	EPA 300.0	11D1109	0.20	7.8	1	4/29/2011	4/29/2011	
Sulfate	EPA 300.0	11D1109	2.0	12	1	4/29/2011	4/29/2011	
Total Dissolved Solids	SM 2540C	11E0075	20	350	1	5/3/2011	5/3/2011	
Alkalinity, Phenolphthalein	SM 2320B	11E0121	6.0	ND	1	5/4/2011	5/4/2011	
Sample ID: PUD1699-06RE1 (FD042811-01 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11E0076	4000	53000	2000	5/3/2011	5/3/2011	

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PUD1699 <Page 17 of 41>

ARCADIS U.S., Inc. - Phoenix
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Project ID: UPCO/3994018

Report Number: PUD1699

Sampled: 04/28/11
 Received: 04/28/11

1,4-DIOXANE BY GCMS - SINGLE ION MONITORING (SIM)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUD1699-02 (TB042811-2 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8260B-SIM	11E0413	2.0	ND	1	5/4/2011	5/4/2011	
<i>Surrogate: Dibromofluoromethane (80-120%)</i>				91 %				
Sample ID: PUD1699-03 (MW-17 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8260B-SIM	11E0413	2.0	ND	1	5/4/2011	5/4/2011	
<i>Surrogate: Dibromofluoromethane (80-120%)</i>				95 %				
Sample ID: PUD1699-04 (MW-16 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8260B-SIM	11E0413	2.0	ND	1	5/4/2011	5/4/2011	
<i>Surrogate: Dibromofluoromethane (80-120%)</i>				94 %				
Sample ID: PUD1699-05 (MW-19 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8260B-SIM	11E0413	2.0	ND	1	5/4/2011	5/4/2011	
<i>Surrogate: Dibromofluoromethane (80-120%)</i>				95 %				
Sample ID: PUD1699-06 (FD042811-01 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8260B-SIM	11E0413	2.0	ND	1	5/4/2011	5/4/2011	
<i>Surrogate: Dibromofluoromethane (80-120%)</i>				93 %				

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Project ID: UPCO/3994018

Report Number: PUD1699

Sampled: 04/28/11

Received: 04/28/11

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: MW-17 (PUD1699-03) - Water EPA 300.0	2	04/28/2011 07:37	04/28/2011 15:40	04/29/2011 11:00	04/29/2011 14:19
Sample ID: MW-16 (PUD1699-04) - Water EPA 300.0	2	04/28/2011 11:50	04/28/2011 15:40	04/29/2011 11:00	04/29/2011 14:37
Sample ID: MW-19 (PUD1699-05) - Water EPA 300.0	2	04/28/2011 13:35	04/28/2011 15:40	04/28/2011 16:18	04/29/2011 00:48
Sample ID: FD042811-01 (PUD1699-06) - Water EPA 300.0	2	04/28/2011 12:00	04/28/2011 15:40	04/29/2011 11:00	04/29/2011 14:56

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PUD1699 <Page 19 of 41>

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Sampled: 04/28/11

Received: 04/28/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 11E0170 Extracted: 05/05/11										
Blank Analyzed: 05/05/2011 (11E0170-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	0.50	ug/l							
Bromochloromethane	ND	0.50	ug/l							
Bromodichloromethane	ND	0.50	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
2-Butanone (MEK)	ND	2.5	ug/l							
n-Butylbenzene	ND	0.50	ug/l							
sec-Butylbenzene	ND	0.50	ug/l							
tert-Butylbenzene	ND	0.50	ug/l							
Carbon disulfide	ND	0.50	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	0.50	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	0.50	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	0.50	ug/l							
4-Chlorotoluene	ND	0.50	ug/l							
Dibromochloromethane	ND	0.50	ug/l							
1,2-Dibromo-3-chloropropane	ND	2.5	ug/l							
1,2-Dibromoethane (EDB)	ND	0.50	ug/l							
Dibromomethane	ND	0.50	ug/l							
1,2-Dichlorobenzene	ND	0.50	ug/l							
1,3-Dichlorobenzene	ND	0.50	ug/l							
1,4-Dichlorobenzene	ND	0.50	ug/l							
Dichlorodifluoromethane	ND	0.50	ug/l							
1,1-Dichloroethane	ND	0.50	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	0.50	ug/l							
cis-1,2-Dichloroethene	ND	0.50	ug/l							
trans-1,2-Dichloroethene	ND	0.50	ug/l							
1,2-Dichloropropane	ND	0.50	ug/l							
1,3-Dichloropropane	ND	0.50	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							

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Report Number: PUD1699

Sampled: 04/28/11
Received: 04/28/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11E0170 Extracted: 05/05/11										
Blank Analyzed: 05/05/2011 (11E0170-BLK1)										
1,1-Dichloropropene	ND	0.50	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
2-Hexanone	ND	5.0	ug/l							
Iodomethane	ND	2.5	ug/l							
Isopropylbenzene	ND	0.50	ug/l							
p-Isopropyltoluene	ND	0.50	ug/l							
Methylene Chloride	ND	1.0	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	2.5	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	0.50	ug/l							
Naphthalene	ND	2.5	ug/l							
n-Propylbenzene	ND	0.50	ug/l							
Styrene	ND	0.50	ug/l							
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l							
Tetrachloroethene	ND	0.50	ug/l							
Toluene	ND	0.50	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	0.50	ug/l							
1,1,2-Trichloroethane	ND	0.50	ug/l							
Trichloroethene	ND	0.50	ug/l							
Trichlorofluoromethane	ND	0.50	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	0.50	ug/l							
1,3,5-Trimethylbenzene	ND	0.50	ug/l							
Vinyl Acetate	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
Xylenes, Total	ND	1.0	ug/l							
Surrogate: Dibromofluoromethane	27.4		ug/l	25.0		110	70-130			
Surrogate: Toluene-d8	25.5		ug/l	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	25.3		ug/l	25.0		101	70-130			

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Report Number: PUD1699

Sampled: 04/28/11
Received: 04/28/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 11E0170 Extracted: 05/05/11										
LCS Analyzed: 05/05/2011 (11E0170-BS1)										
Acetone	25.4	10	ug/l	25.0		102	30-150			
Benzene	22.8	0.50	ug/l	25.0		91	70-130			
Bromobenzene	25.5	0.50	ug/l	25.0		102	70-130			
Bromochloromethane	24.3	0.50	ug/l	25.0		97	70-130			
Bromodichloromethane	22.7	0.50	ug/l	25.0		91	70-130			
Bromoform	18.7	1.0	ug/l	25.0		75	67-122			
Bromomethane	21.6	1.0	ug/l	25.0		86	64-132			
2-Butanone (MEK)	28.0	2.5	ug/l	25.0		112	48-150			
n-Butylbenzene	24.8	0.50	ug/l	25.0		99	70-130			
sec-Butylbenzene	24.4	0.50	ug/l	25.0		98	70-130			
tert-Butylbenzene	24.2	0.50	ug/l	25.0		97	70-130			
Carbon disulfide	26.0	0.50	ug/l	25.0		104	61-126			
Carbon tetrachloride	23.7	0.50	ug/l	25.0		95	70-130			
Chlorobenzene	24.5	0.50	ug/l	25.0		98	70-130			
Chloroethane	22.6	1.0	ug/l	25.0		90	69-128			
Chloroform	22.8	0.50	ug/l	25.0		91	70-130			
Chloromethane	22.2	1.0	ug/l	25.0		89	56-131			
2-Chlorotoluene	23.3	0.50	ug/l	25.0		93	70-130			
4-Chlorotoluene	24.2	0.50	ug/l	25.0		97	70-130			
Dibromochloromethane	22.8	0.50	ug/l	25.0		91	70-130			
1,2-Dibromo-3-chloropropane	21.2	2.5	ug/l	25.0		85	63-129			
1,2-Dibromoethane (EDB)	23.9	0.50	ug/l	25.0		96	70-130			
Dibromomethane	23.2	0.50	ug/l	25.0		93	70-130			
1,2-Dichlorobenzene	25.3	0.50	ug/l	25.0		101	70-130			
1,3-Dichlorobenzene	24.3	0.50	ug/l	25.0		97	70-130			
1,4-Dichlorobenzene	24.8	0.50	ug/l	25.0		99	70-130			
Dichlorodifluoromethane	22.0	0.50	ug/l	25.0		88	42-150			
1,1-Dichloroethane	23.2	0.50	ug/l	25.0		93	70-130			
1,2-Dichloroethane	24.2	0.50	ug/l	25.0		97	72-133			
1,1-Dichloroethene	23.7	0.50	ug/l	25.0		95	70-130			
cis-1,2-Dichloroethene	22.0	0.50	ug/l	25.0		88	70-130			
trans-1,2-Dichloroethene	22.7	0.50	ug/l	25.0		91	70-130			
1,2-Dichloropropane	22.9	0.50	ug/l	25.0		92	70-130			
1,3-Dichloropropane	22.8	0.50	ug/l	25.0		91	70-130			
2,2-Dichloropropane	22.2	1.0	ug/l	25.0		89	70-130			

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Report Number: PUD1699

Sampled: 04/28/11
Received: 04/28/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11E0170 Extracted: 05/05/11										
LCS Analyzed: 05/05/2011 (11E0170-BS1)										
1,1-Dichloropropene	21.8	0.50	ug/l	25.0		87	70-130			
cis-1,3-Dichloropropene	23.7	0.50	ug/l	25.0		95	70-130			
trans-1,3-Dichloropropene	23.0	0.50	ug/l	25.0		92	70-130			
Ethylbenzene	24.2	0.50	ug/l	25.0		97	70-130			
Hexachlorobutadiene	24.4	1.0	ug/l	25.0		98	70-130			
2-Hexanone	25.0	5.0	ug/l	25.0		100	44-150			
Iodomethane	26.9	2.5	ug/l	25.0		108	58-138			
Isopropylbenzene	26.0	0.50	ug/l	25.0		104	70-130			
p-Isopropyltoluene	24.3	0.50	ug/l	25.0		97	70-130			
Methylene Chloride	22.3	1.0	ug/l	25.0		89	70-130			
4-Methyl-2-pentanone (MIBK)	23.6	2.5	ug/l	25.0		94	61-142			
Methyl-tert-butyl Ether (MTBE)	25.4	0.50	ug/l	25.0		102	70-130			
Naphthalene	24.4	2.5	ug/l	25.0		98	65-129			
n-Propylbenzene	25.1	0.50	ug/l	25.0		100	70-130			
Styrene	21.7	0.50	ug/l	25.0		87	70-130			
1,1,1,2-Tetrachloroethane	24.6	0.50	ug/l	25.0		99	70-130			
1,1,2,2-Tetrachloroethane	23.1	0.50	ug/l	25.0		93	70-130			
Tetrachloroethene	25.0	0.50	ug/l	25.0		100	70-130			
Toluene	23.5	0.50	ug/l	25.0		94	70-130			
1,2,3-Trichlorobenzene	25.7	1.0	ug/l	25.0		103	70-130			
1,2,4-Trichlorobenzene	26.8	1.0	ug/l	25.0		107	70-130			
1,1,1-Trichloroethane	23.8	0.50	ug/l	25.0		95	70-130			
1,1,2-Trichloroethane	23.3	0.50	ug/l	25.0		93	70-130			
Trichloroethene	23.3	0.50	ug/l	25.0		93	70-130			
Trichlorofluoromethane	27.1	0.50	ug/l	25.0		108	78-149			
1,2,3-Trichloropropane	21.0	1.0	ug/l	25.0		84	70-130			
1,2,4-Trimethylbenzene	24.4	0.50	ug/l	25.0		98	70-130			
1,3,5-Trimethylbenzene	25.1	0.50	ug/l	25.0		100	70-130			
Vinyl Acetate	21.2	1.0	ug/l	25.0		85	57-149			
Vinyl chloride	22.9	0.50	ug/l	25.0		92	66-134			
Xylenes, Total	47.7	1.0	ug/l	50.0		95	70-130			
Surrogate: Dibromofluoromethane	25.1		ug/l	25.0		100	70-130			
Surrogate: Toluene-d8	25.1		ug/l	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	24.7		ug/l	25.0		99	70-130			

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Report Number: PUD1699

Sampled: 04/28/11

Received: 04/28/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11E0170 Extracted: 05/05/11										
LCS Dup Analyzed: 05/05/2011 (11E0170-BSD1)										
Acetone	28.5	10	ug/l	25.0		114	30-150	11	35	
Benzene	24.0	0.50	ug/l	25.0		96	70-130	5	20	
Bromobenzene	26.4	0.50	ug/l	25.0		105	70-130	3	20	
Bromochloromethane	24.9	0.50	ug/l	25.0		100	70-130	3	20	
Bromodichloromethane	23.8	0.50	ug/l	25.0		95	70-130	5	20	
Bromoform	19.6	1.0	ug/l	25.0		78	67-122	5	20	
Bromomethane	22.2	1.0	ug/l	25.0		89	64-132	3	20	
2-Butanone (MEK)	32.2	2.5	ug/l	25.0		129	48-150	14	33	
n-Butylbenzene	26.3	0.50	ug/l	25.0		105	70-130	6	20	
sec-Butylbenzene	25.9	0.50	ug/l	25.0		104	70-130	6	20	
tert-Butylbenzene	25.8	0.50	ug/l	25.0		103	70-130	6	20	
Carbon disulfide	28.0	0.50	ug/l	25.0		112	61-126	8	20	
Carbon tetrachloride	25.9	0.50	ug/l	25.0		104	70-130	9	20	
Chlorobenzene	26.1	0.50	ug/l	25.0		104	70-130	6	20	
Chloroethane	23.7	1.0	ug/l	25.0		95	69-128	5	20	
Chloroform	24.5	0.50	ug/l	25.0		98	70-130	7	20	
Chloromethane	22.9	1.0	ug/l	25.0		92	56-131	3	20	
2-Chlorotoluene	24.3	0.50	ug/l	25.0		97	70-130	4	20	
4-Chlorotoluene	25.1	0.50	ug/l	25.0		100	70-130	4	20	
Dibromochloromethane	24.7	0.50	ug/l	25.0		99	70-130	8	20	
1,2-Dibromo-3-chloropropane	22.1	2.5	ug/l	25.0		88	63-129	4	25	
1,2-Dibromoethane (EDB)	25.8	0.50	ug/l	25.0		103	70-130	8	20	
Dibromomethane	24.8	0.50	ug/l	25.0		99	70-130	7	20	
1,2-Dichlorobenzene	25.8	0.50	ug/l	25.0		103	70-130	2	20	
1,3-Dichlorobenzene	25.4	0.50	ug/l	25.0		102	70-130	4	20	
1,4-Dichlorobenzene	25.8	0.50	ug/l	25.0		103	70-130	4	20	
Dichlorodifluoromethane	23.2	0.50	ug/l	25.0		93	42-150	5	20	
1,1-Dichloroethane	24.8	0.50	ug/l	25.0		99	70-130	6	20	
1,2-Dichloroethane	25.0	0.50	ug/l	25.0		100	72-133	4	20	
1,1-Dichloroethene	26.7	0.50	ug/l	25.0		107	70-130	12	20	
cis-1,2-Dichloroethene	23.4	0.50	ug/l	25.0		93	70-130	6	20	
trans-1,2-Dichloroethene	23.6	0.50	ug/l	25.0		94	70-130	4	20	
1,2-Dichloropropane	24.5	0.50	ug/l	25.0		98	70-130	7	20	
1,3-Dichloropropane	24.1	0.50	ug/l	25.0		97	70-130	6	20	
2,2-Dichloropropane	23.7	1.0	ug/l	25.0		95	70-130	6	20	

TestAmerica Phoenix

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Report Number: PUD1699

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11E0170 Extracted: 05/05/11										
LCS Dup Analyzed: 05/05/2011 (11E0170-BSD1)										
1,1-Dichloropropene	24.0	0.50	ug/l	25.0		96	70-130	10	20	
cis-1,3-Dichloropropene	24.8	0.50	ug/l	25.0		99	70-130	5	20	
trans-1,3-Dichloropropene	23.6	0.50	ug/l	25.0		94	70-130	2	20	
Ethylbenzene	26.0	0.50	ug/l	25.0		104	70-130	7	20	
Hexachlorobutadiene	26.2	1.0	ug/l	25.0		105	70-130	7	20	
2-Hexanone	32.8	5.0	ug/l	25.0		131	44-150	27	31	
Iodomethane	28.0	2.5	ug/l	25.0		112	58-138	4	25	
Isopropylbenzene	27.5	0.50	ug/l	25.0		110	70-130	5	20	
p-Isopropyltoluene	25.8	0.50	ug/l	25.0		103	70-130	6	20	
Methylene Chloride	24.1	1.0	ug/l	25.0		96	70-130	8	20	
4-Methyl-2-pentanone (MIBK)	26.8	2.5	ug/l	25.0		107	61-142	13	22	
Methyl-tert-butyl Ether (MTBE)	25.6	0.50	ug/l	25.0		102	70-130	0.6	20	
Naphthalene	25.6	2.5	ug/l	25.0		102	65-129	5	20	
n-Propylbenzene	26.9	0.50	ug/l	25.0		107	70-130	7	20	
Styrene	23.0	0.50	ug/l	25.0		92	70-130	6	20	
1,1,1,2-Tetrachloroethane	26.0	0.50	ug/l	25.0		104	70-130	5	20	
1,1,2,2-Tetrachloroethane	24.0	0.50	ug/l	25.0		96	70-130	4	20	
Tetrachloroethene	27.2	0.50	ug/l	25.0		109	70-130	8	20	
Toluene	25.4	0.50	ug/l	25.0		102	70-130	8	20	
1,2,3-Trichlorobenzene	27.5	1.0	ug/l	25.0		110	70-130	7	20	
1,2,4-Trichlorobenzene	28.1	1.0	ug/l	25.0		112	70-130	5	20	
1,1,1-Trichloroethane	25.3	0.50	ug/l	25.0		101	70-130	6	20	
1,1,2-Trichloroethane	24.9	0.50	ug/l	25.0		100	70-130	7	20	
Trichloroethene	25.4	0.50	ug/l	25.0		102	70-130	8	20	
Trichlorofluoromethane	28.2	0.50	ug/l	25.0		113	78-149	4	20	
1,2,3-Trichloropropane	22.5	1.0	ug/l	25.0		90	70-130	7	20	
1,2,4-Trimethylbenzene	25.8	0.50	ug/l	25.0		103	70-130	5	20	
1,3,5-Trimethylbenzene	26.3	0.50	ug/l	25.0		105	70-130	5	20	
Vinyl Acetate	21.4	1.0	ug/l	25.0		86	57-149	0.6	21	
Vinyl chloride	24.3	0.50	ug/l	25.0		97	66-134	6	20	
Xylenes, Total	51.7	1.0	ug/l	50.0		103	70-130	8	20	
Surrogate: Dibromofluoromethane	25.3		ug/l	25.0		101	70-130			
Surrogate: Toluene-d8	25.0		ug/l	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	24.8		ug/l	25.0		99	70-130			

TestAmerica Phoenix

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11E0170 Extracted: 05/05/11										
Matrix Spike Analyzed: 05/05/2011 (11E0170-MS1)					Source: PUD1699-03					
Acetone	10.5	10	ug/l	25.0	ND	42	10-150			
Benzene	22.9	0.50	ug/l	25.0	ND	92	70-130			
Bromobenzene	25.8	0.50	ug/l	25.0	ND	103	70-130			
Bromochloromethane	23.8	0.50	ug/l	25.0	ND	95	70-130			
Bromodichloromethane	22.7	0.50	ug/l	25.0	ND	91	70-130			
Bromoform	18.8	1.0	ug/l	25.0	ND	75	62-126			
Bromomethane	21.2	1.0	ug/l	25.0	ND	85	55-136			
2-Butanone (MEK)	15.4	2.5	ug/l	25.0	ND	62	22-150			
n-Butylbenzene	24.6	0.50	ug/l	25.0	ND	99	70-130			
sec-Butylbenzene	24.3	0.50	ug/l	25.0	ND	97	70-130			
tert-Butylbenzene	24.2	0.50	ug/l	25.0	ND	97	70-130			
Carbon disulfide	26.4	0.50	ug/l	25.0	ND	105	56-132			
Carbon tetrachloride	23.9	0.50	ug/l	25.0	ND	96	76-131			
Chlorobenzene	24.2	0.50	ug/l	25.0	ND	97	70-130			
Chloroethane	22.6	1.0	ug/l	25.0	ND	90	67-134			
Chloroform	23.5	0.50	ug/l	25.0	0.280	93	70-130			
Chloromethane	21.7	1.0	ug/l	25.0	ND	87	50-135			
2-Chlorotoluene	23.7	0.50	ug/l	25.0	ND	95	70-130			
4-Chlorotoluene	24.3	0.50	ug/l	25.0	ND	97	70-130			
Dibromochloromethane	22.7	0.50	ug/l	25.0	ND	91	70-130			
1,2-Dibromo-3-chloropropane	20.3	2.5	ug/l	25.0	ND	81	60-135			
1,2-Dibromoethane (EDB)	24.1	0.50	ug/l	25.0	ND	97	70-130			
Dibromomethane	23.5	0.50	ug/l	25.0	ND	94	70-130			
1,2-Dichlorobenzene	24.6	0.50	ug/l	25.0	ND	98	70-130			
1,3-Dichlorobenzene	24.0	0.50	ug/l	25.0	ND	96	70-130			
1,4-Dichlorobenzene	24.4	0.50	ug/l	25.0	ND	98	70-130			
Dichlorodifluoromethane	21.0	0.50	ug/l	25.0	ND	84	36-150			
1,1-Dichloroethane	23.7	0.50	ug/l	25.0	ND	95	70-130			
1,2-Dichloroethane	24.7	0.50	ug/l	25.0	ND	99	68-143			
1,1-Dichloroethene	25.0	0.50	ug/l	25.0	ND	100	70-130			
cis-1,2-Dichloroethene	21.5	0.50	ug/l	25.0	ND	86	70-130			
trans-1,2-Dichloroethene	22.0	0.50	ug/l	25.0	ND	88	70-130			
1,2-Dichloropropane	23.5	0.50	ug/l	25.0	ND	94	70-130			
1,3-Dichloropropane	23.1	0.50	ug/l	25.0	ND	92	70-130			
2,2-Dichloropropane	22.4	1.0	ug/l	25.0	ND	90	66-130			

TestAmerica Phoenix

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11E0170 Extracted: 05/05/11										
Matrix Spike Analyzed: 05/05/2011 (11E0170-MS1)					Source: PUD1699-03					
1,1-Dichloropropene	22.3	0.50	ug/l	25.0	ND	89	70-130			
cis-1,3-Dichloropropene	23.7	0.50	ug/l	25.0	ND	95	70-130			
trans-1,3-Dichloropropene	22.6	0.50	ug/l	25.0	ND	91	71-132			
Ethylbenzene	23.8	0.50	ug/l	25.0	ND	95	70-130			
Hexachlorobutadiene	24.1	1.0	ug/l	25.0	ND	96	66-129			
2-Hexanone	16.7	5.0	ug/l	25.0	ND	67	18-150			
Iodomethane	26.7	2.5	ug/l	25.0	ND	107	47-141			
Isopropylbenzene	26.4	0.50	ug/l	25.0	ND	106	78-137			
p-Isopropyltoluene	24.6	0.50	ug/l	25.0	ND	99	70-130			
Methylene Chloride	23.0	1.0	ug/l	25.0	ND	92	74-132			
4-Methyl-2-pentanone (MIBK)	21.8	2.5	ug/l	25.0	ND	87	56-145			
Methyl-tert-butyl Ether (MTBE)	22.7	0.50	ug/l	25.0	ND	91	67-138			
Naphthalene	22.4	2.5	ug/l	25.0	ND	90	54-135			
n-Propylbenzene	25.7	0.50	ug/l	25.0	ND	103	70-130			
Styrene	21.4	0.50	ug/l	25.0	ND	86	51-123			
1,1,1,2-Tetrachloroethane	24.2	0.50	ug/l	25.0	ND	97	70-130			
1,1,2,2-Tetrachloroethane	23.9	0.50	ug/l	25.0	ND	96	69-133			
Tetrachloroethene	24.3	0.50	ug/l	25.0	ND	97	70-130			
Toluene	23.8	0.50	ug/l	25.0	0.330	94	70-130			
1,2,3-Trichlorobenzene	24.8	1.0	ug/l	25.0	ND	99	70-130			
1,2,4-Trichlorobenzene	25.4	1.0	ug/l	25.0	ND	102	66-126			
1,1,1-Trichloroethane	23.8	0.50	ug/l	25.0	ND	95	76-132			
1,1,2-Trichloroethane	24.3	0.50	ug/l	25.0	ND	97	70-130			
Trichloroethene	23.2	0.50	ug/l	25.0	ND	93	70-130			
Trichlorofluoromethane	27.3	0.50	ug/l	25.0	ND	109	74-150			
1,2,3-Trichloropropane	21.8	1.0	ug/l	25.0	ND	87	70-130			
1,2,4-Trimethylbenzene	24.4	0.50	ug/l	25.0	ND	98	70-130			
1,3,5-Trimethylbenzene	25.1	0.50	ug/l	25.0	ND	100	61-138			
Vinyl Acetate	20.7	1.0	ug/l	25.0	ND	83	50-150			
Vinyl chloride	22.6	0.50	ug/l	25.0	ND	90	58-139			
Xylenes, Total	47.0	1.0	ug/l	50.0	ND	94	70-130			
Surrogate: Dibromofluoromethane	26.0		ug/l	25.0		104	70-130			
Surrogate: Toluene-d8	25.6		ug/l	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	24.7		ug/l	25.0		99	70-130			

TestAmerica Phoenix

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11E0170 Extracted: 05/05/11										
Matrix Spike Dup Analyzed: 05/05/2011 (11E0170-MSD1)					Source: PUD1699-03					
Acetone	12.7	10	ug/l	25.0	ND	51	10-150	19	35	
Benzene	23.3	0.50	ug/l	25.0	ND	93	70-130	2	20	
Bromobenzene	25.5	0.50	ug/l	25.0	ND	102	70-130	1	20	
Bromochloromethane	25.5	0.50	ug/l	25.0	ND	102	70-130	7	20	
Bromodichloromethane	23.3	0.50	ug/l	25.0	ND	93	70-130	2	20	
Bromoform	19.8	1.0	ug/l	25.0	ND	79	62-126	5	20	
Bromomethane	22.0	1.0	ug/l	25.0	ND	88	55-136	4	24	
2-Butanone (MEK)	18.4	2.5	ug/l	25.0	ND	73	22-150	17	31	
n-Butylbenzene	24.5	0.50	ug/l	25.0	ND	98	70-130	0.5	20	
sec-Butylbenzene	24.7	0.50	ug/l	25.0	ND	99	70-130	2	20	
tert-Butylbenzene	24.5	0.50	ug/l	25.0	ND	98	70-130	1	20	
Carbon disulfide	27.3	0.50	ug/l	25.0	ND	109	56-132	4	20	
Carbon tetrachloride	25.1	0.50	ug/l	25.0	ND	100	76-131	5	20	
Chlorobenzene	24.8	0.50	ug/l	25.0	ND	99	70-130	3	20	
Chloroethane	23.6	1.0	ug/l	25.0	ND	94	67-134	4	20	
Chloroform	24.2	0.50	ug/l	25.0	0.280	96	70-130	3	20	
Chloromethane	22.6	1.0	ug/l	25.0	ND	90	50-135	4	20	
2-Chlorotoluene	23.7	0.50	ug/l	25.0	ND	95	70-130	0.2	20	
4-Chlorotoluene	24.2	0.50	ug/l	25.0	ND	97	70-130	0.4	20	
Dibromochloromethane	23.2	0.50	ug/l	25.0	ND	93	70-130	2	20	
1,2-Dibromo-3-chloropropane	22.6	2.5	ug/l	25.0	ND	90	60-135	11	29	
1,2-Dibromoethane (EDB)	25.6	0.50	ug/l	25.0	ND	102	70-130	6	20	
Dibromomethane	24.5	0.50	ug/l	25.0	ND	98	70-130	4	20	
1,2-Dichlorobenzene	25.2	0.50	ug/l	25.0	ND	101	70-130	3	20	
1,3-Dichlorobenzene	24.2	0.50	ug/l	25.0	ND	97	70-130	0.5	20	
1,4-Dichlorobenzene	24.6	0.50	ug/l	25.0	ND	99	70-130	1	20	
Dichlorodifluoromethane	22.2	0.50	ug/l	25.0	ND	89	36-150	5	22	
1,1-Dichloroethane	24.6	0.50	ug/l	25.0	ND	98	70-130	4	20	
1,2-Dichloroethane	25.7	0.50	ug/l	25.0	ND	103	68-143	4	20	
1,1-Dichloroethene	25.3	0.50	ug/l	25.0	ND	101	70-130	1	20	
cis-1,2-Dichloroethene	22.4	0.50	ug/l	25.0	ND	90	70-130	4	20	
trans-1,2-Dichloroethene	23.4	0.50	ug/l	25.0	ND	94	70-130	6	20	
1,2-Dichloropropane	23.7	0.50	ug/l	25.0	ND	95	70-130	0.8	20	
1,3-Dichloropropane	23.4	0.50	ug/l	25.0	ND	93	70-130	1	20	
2,2-Dichloropropane	23.0	1.0	ug/l	25.0	ND	92	66-130	2	20	

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VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11E0170 Extracted: 05/05/11										
Matrix Spike Dup Analyzed: 05/05/2011 (11E0170-MSD1)					Source: PUD1699-03					
1,1-Dichloropropene	23.0	0.50	ug/l	25.0	ND	92	70-130	3	20	
cis-1,3-Dichloropropene	23.8	0.50	ug/l	25.0	ND	95	70-130	0.3	20	
trans-1,3-Dichloropropene	23.9	0.50	ug/l	25.0	ND	96	71-132	6	20	
Ethylbenzene	24.5	0.50	ug/l	25.0	ND	98	70-130	3	20	
Hexachlorobutadiene	24.0	1.0	ug/l	25.0	ND	96	66-129	0.6	21	
2-Hexanone	20.4	5.0	ug/l	25.0	ND	82	18-150	20	25	
Iodomethane	27.4	2.5	ug/l	25.0	ND	110	47-141	3	29	
Isopropylbenzene	26.6	0.50	ug/l	25.0	ND	107	78-137	0.8	20	
p-Isopropyltoluene	24.9	0.50	ug/l	25.0	ND	100	70-130	1	20	
Methylene Chloride	23.6	1.0	ug/l	25.0	ND	94	74-132	3	20	
4-Methyl-2-pentanone (MIBK)	25.9	2.5	ug/l	25.0	ND	104	56-145	17	26	
Methyl-tert-butyl Ether (MTBE)	25.7	0.50	ug/l	25.0	ND	103	67-138	12	21	
Naphthalene	24.9	2.5	ug/l	25.0	ND	100	54-135	11	33	
n-Propylbenzene	25.5	0.50	ug/l	25.0	ND	102	70-130	0.8	20	
Styrene	21.7	0.50	ug/l	25.0	ND	87	51-123	1	21	
1,1,1,2-Tetrachloroethane	25.2	0.50	ug/l	25.0	ND	101	70-130	4	20	
1,1,2,2-Tetrachloroethane	25.4	0.50	ug/l	25.0	ND	102	69-133	6	20	
Tetrachloroethene	25.5	0.50	ug/l	25.0	ND	102	70-130	5	20	
Toluene	24.5	0.50	ug/l	25.0	0.330	97	70-130	3	20	
1,2,3-Trichlorobenzene	25.7	1.0	ug/l	25.0	ND	103	70-130	4	20	
1,2,4-Trichlorobenzene	25.9	1.0	ug/l	25.0	ND	104	66-126	2	20	
1,1,1-Trichloroethane	24.8	0.50	ug/l	25.0	ND	99	76-132	4	20	
1,1,2-Trichloroethane	25.2	0.50	ug/l	25.0	ND	101	70-130	4	20	
Trichloroethene	23.8	0.50	ug/l	25.0	ND	95	70-130	2	20	
Trichlorofluoromethane	28.5	0.50	ug/l	25.0	ND	114	74-150	4	20	
1,2,3-Trichloropropane	22.9	1.0	ug/l	25.0	ND	92	70-130	5	20	
1,2,4-Trimethylbenzene	24.3	0.50	ug/l	25.0	ND	97	70-130	0.5	20	
1,3,5-Trimethylbenzene	25.2	0.50	ug/l	25.0	ND	101	61-138	0.4	33	
Vinyl Acetate	22.4	1.0	ug/l	25.0	ND	90	50-150	8	23	
Vinyl chloride	23.3	0.50	ug/l	25.0	ND	93	58-139	3	21	
Xylenes, Total	48.5	1.0	ug/l	50.0	ND	97	70-130	3	20	
Surrogate: Dibromofluoromethane	26.0		ug/l	25.0		104	70-130			
Surrogate: Toluene-d8	25.4		ug/l	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	24.8		ug/l	25.0		99	70-130			

TestAmerica Phoenix

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Project ID: UPCO/3994018

Report Number: PUD1699

Sampled: 04/28/11

Received: 04/28/11

METHOD BLANK/QC DATA

TOTAL METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 11D1069 Extracted: 04/28/11										
Blank Analyzed: 05/03/2011 (11D1069-BLK1)										
Calcium	ND	2.0	mg/l							
Magnesium	ND	2.0	mg/l							
Potassium	ND	2.0	mg/l							
Sodium	ND	2.0	mg/l							
LCS Analyzed: 05/03/2011 (11D1069-BS1)										
Calcium	10.5	2.0	mg/l	10.0		105	85-115			
Magnesium	10.5	2.0	mg/l	10.0		105	85-115			
Potassium	9.92	2.0	mg/l	10.0		99	85-115			
Sodium	10.5	2.0	mg/l	10.0		105	85-115			
LCS Dup Analyzed: 05/03/2011 (11D1069-BSD1)										
Calcium	10.5	2.0	mg/l	10.0		105	85-115	0.8	20	
Magnesium	10.5	2.0	mg/l	10.0		105	85-115	0.6	20	
Potassium	9.92	2.0	mg/l	10.0		99	85-115	0.08	20	
Sodium	10.6	2.0	mg/l	10.0		106	85-115	0.4	20	
Matrix Spike Analyzed: 05/03/2011 (11D1069-MS1) Source: PUD1621-01										
Calcium	55.0	2.0	mg/l	10.0	42.8	121	75-125			
Magnesium	30.2	2.0	mg/l	10.0	19.6	106	75-125			
Potassium	10.9	2.0	mg/l	10.0	2.74	81	75-125			
Sodium	19.2	2.0	mg/l	10.0	10.2	90	75-125			
Matrix Spike Analyzed: 05/03/2011 (11D1069-MS2) Source: PUD1688-01										
Calcium	298	2.0	mg/l	10.0	266	314	75-125			M3
Magnesium	41.3	2.0	mg/l	10.0	29.4	119	75-125			
Potassium	23.8	2.0	mg/l	10.0	15.0	88	75-125			
Sodium	ND	2.0	mg/l	10.0	ND		75-125			M3

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METHOD BLANK/QC DATA

TOTAL METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11D1069 Extracted: 04/28/11										
Matrix Spike Dup Analyzed: 05/03/2011 (11D1069-MSD1)					Source: PUD1621-01					
Calcium	54.5	2.0	mg/l	10.0	42.8	116	75-125	0.9	10	
Magnesium	30.6	2.0	mg/l	10.0	19.6	111	75-125	1	10	
Potassium	11.4	2.0	mg/l	10.0	2.74	87	75-125	5	10	
Sodium	19.8	2.0	mg/l	10.0	10.2	96	75-125	3	10	
Matrix Spike Dup Analyzed: 05/03/2011 (11D1069-MSD2)					Source: PUD1688-01					
Calcium	278	2.0	mg/l	10.0	266	121	75-125	7	10	
Magnesium	40.8	2.0	mg/l	10.0	29.4	114	75-125	1	10	
Potassium	23.9	2.0	mg/l	10.0	15.0	89	75-125	0.3	10	
Sodium	ND	2.0	mg/l	10.0	ND		75-125		10	M3
Batch: 11E0034 Extracted: 05/03/11										
Blank Analyzed: 05/03/2011 (11E0034-BLK1)										
Mercury	ND	0.00020	mg/l							
LCS Analyzed: 05/03/2011 (11E0034-BS1)										
Mercury	0.00937	0.00020	mg/l	0.0100		94	85-115			
LCS Dup Analyzed: 05/03/2011 (11E0034-BSD1)										
Mercury	0.0105	0.00020	mg/l	0.0100		105	85-115	12	20	
Matrix Spike Analyzed: 05/03/2011 (11E0034-MS1)					Source: PUD1628-01					
Mercury	0.00858	0.00020	mg/l	0.0100	ND	86	70-130			
Matrix Spike Analyzed: 05/03/2011 (11E0034-MS2)					Source: PUD1684-01					
Mercury	0.00676	0.00020	mg/l	0.0100	ND	68	70-130			M2

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METHOD BLANK/QC DATA

TOTAL METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11E0034 Extracted: 05/03/11										
Matrix Spike Dup Analyzed: 05/03/2011 (11E0034-MSD1)					Source: PUD1628-01					
Mercury	0.00866	0.00020	mg/l	0.0100	ND	87	70-130	1	20	
Matrix Spike Dup Analyzed: 05/03/2011 (11E0034-MSD2)					Source: PUD1684-01					
Mercury	0.00992	0.00020	mg/l	0.0100	ND	99	70-130	38	20	<i>N/a</i>

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METHOD BLANK/QC DATA

TOTAL METALS BY ICP/MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11D1070 Extracted: 04/28/11										
Blank Analyzed: 05/03/2011 (11D1070-BLK1)										
Arsenic	ND	0.0010	mg/l							
Barium	ND	0.0010	mg/l							
Cadmium	ND	0.0010	mg/l							
Chromium	ND	0.0010	mg/l							
Lead	ND	0.0010	mg/l							
Selenium	ND	0.0020	mg/l							
Silver	ND	0.0010	mg/l							
LCS Analyzed: 05/03/2011 (11D1070-BS1)										
Arsenic	0.0989	0.0010	mg/l	0.100		99	85-115			
Barium	0.105	0.0010	mg/l	0.100		105	85-115			
Cadmium	0.100	0.0010	mg/l	0.100		100	85-115			
Chromium	0.0946	0.0010	mg/l	0.100		95	85-115			
Lead	0.105	0.0010	mg/l	0.100		105	85-115			
Selenium	0.101	0.0020	mg/l	0.100		101	85-115			
Silver	0.0997	0.0010	mg/l	0.100		100	85-115			
LCS Dup Analyzed: 05/03/2011 (11D1070-BSD1)										
Arsenic	0.0973	0.0010	mg/l	0.100		97	85-115	2	20	
Barium	0.104	0.0010	mg/l	0.100		104	85-115	0.5	20	
Cadmium	0.0990	0.0010	mg/l	0.100		99	85-115	1	20	
Chromium	0.0945	0.0010	mg/l	0.100		95	85-115	0.08	20	
Lead	0.102	0.0010	mg/l	0.100		102	85-115	2	20	
Selenium	0.0962	0.0020	mg/l	0.100		96	85-115	5	20	
Silver	0.0987	0.0010	mg/l	0.100		99	85-115	1	20	
Matrix Spike Analyzed: 05/03/2011 (11D1070-MS1)										
					Source: PUD1618-01					
Arsenic	0.101	0.0010	mg/l	0.100	0.00384	98	70-130			
Barium	0.338	0.0010	mg/l	0.100	0.233	105	70-130			
Cadmium	0.0983	0.0010	mg/l	0.100	ND	98	70-130			
Chromium	0.0961	0.0010	mg/l	0.100	0.00354	93	70-130			
Lead	0.0998	0.0010	mg/l	0.100	0.000630	99	70-130			
Selenium	0.0963	0.0020	mg/l	0.100	ND	96	70-130			
Silver	0.0961	0.0010	mg/l	0.100	0.000136	96	70-130			

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METHOD BLANK/QC DATA

TOTAL METALS BY ICP/MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11D1070 Extracted: 04/28/11										
Matrix Spike Analyzed: 05/03/2011 (11D1070-MS2)					Source: PUD1619-01					
Arsenic	0.105	0.0010	mg/l	0.100	0.00527	100	70-130			
Barium	0.324	0.0010	mg/l	0.100	0.218	106	70-130			
Cadmium	0.0987	0.0010	mg/l	0.100	ND	99	70-130			
Chromium	0.0976	0.0010	mg/l	0.100	0.000422	97	70-130			
Lead	0.0988	0.0010	mg/l	0.100	0.000280	98	70-130			
Selenium	0.0983	0.0020	mg/l	0.100	ND	98	70-130			
Silver	0.0945	0.0010	mg/l	0.100	ND	95	70-130			
Matrix Spike Dup Analyzed: 05/03/2011 (11D1070-MSD1)					Source: PUD1618-01					
Arsenic	0.103	0.0010	mg/l	0.100	0.00384	99	70-130	1	15	
Barium	0.336	0.0010	mg/l	0.100	0.233	103	70-130	0.7	15	
Cadmium	0.0986	0.0010	mg/l	0.100	ND	99	70-130	0.4	15	
Chromium	0.0964	0.0010	mg/l	0.100	0.00354	93	70-130	0.4	15	
Lead	0.0994	0.0010	mg/l	0.100	0.000630	99	70-130	0.4	15	
Selenium	0.0971	0.0020	mg/l	0.100	ND	97	70-130	0.8	15	
Silver	0.0960	0.0010	mg/l	0.100	0.000136	96	70-130	0.06	15	
Matrix Spike Dup Analyzed: 05/03/2011 (11D1070-MSD2)					Source: PUD1619-01					
Arsenic	0.106	0.0010	mg/l	0.100	0.00527	101	70-130	0.9	15	
Barium	0.319	0.0010	mg/l	0.100	0.218	101	70-130	1	15	
Cadmium	0.0997	0.0010	mg/l	0.100	ND	100	70-130	1	15	
Chromium	0.0963	0.0010	mg/l	0.100	0.000422	96	70-130	1	15	
Lead	0.0991	0.0010	mg/l	0.100	0.000280	99	70-130	0.3	15	
Selenium	0.101	0.0020	mg/l	0.100	ND	101	70-130	3	15	
Silver	0.0955	0.0010	mg/l	0.100	ND	96	70-130	1	15	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11D1033 Extracted: 04/28/11										
Blank Analyzed: 04/28/2011 (11D1033-BLK1)										
Chloride	ND	2.0	mg/l							
Nitrate-N	ND	0.20	mg/l							
Sulfate	ND	2.0	mg/l							
LCS Analyzed: 04/28/2011 (11D1033-BS1)										
Chloride	19.4	2.0	mg/l	20.0		97	90-110			NI
Nitrate-N	3.98	0.20	mg/l	4.00		100	90-110			
Sulfate	19.6	2.0	mg/l	20.0		98	90-110			NI
LCS Dup Analyzed: 04/28/2011 (11D1033-BSD1)										
Chloride	19.4	2.0	mg/l	20.0		97	90-110	0.02	15	NI
Nitrate-N	3.97	0.20	mg/l	4.00		99	90-110	0.3	15	
Sulfate	19.6	2.0	mg/l	20.0		98	90-110	0.07	15	NI
Matrix Spike Analyzed: 04/28/2011 (11D1033-MS1)					Source: PUD1676-05					
Nitrate-N	15.2	0.20	mg/l	4.00	11.5	92	80-120			
Matrix Spike Dup Analyzed: 04/28/2011 (11D1033-MSD1)					Source: PUD1676-05					
Nitrate-N	15.3	0.20	mg/l	4.00	11.5	95	80-120	0.8	15	
Batch: 11D1109 Extracted: 04/29/11										
Blank Analyzed: 04/29/2011 (11D1109-BLK1)										
Chloride	ND	2.0	mg/l							
Nitrate-N	ND	0.20	mg/l							
Sulfate	ND	2.0	mg/l							

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11D1109 Extracted: 04/29/11										
LCS Analyzed: 04/29/2011 (11D1109-BS1)										
Chloride	20.0	2.0	mg/l	20.0		100	90-110			NI
Nitrate-N	4.08	0.20	mg/l	4.00		102	90-110			NI
Sulfate	20.1	2.0	mg/l	20.0		101	90-110			NI
LCS Dup Analyzed: 04/29/2011 (11D1109-BSD1)										
Chloride	20.0	2.0	mg/l	20.0		100	90-110	0.2	15	NI
Nitrate-N	4.11	0.20	mg/l	4.00		103	90-110	0.6	15	NI
Sulfate	20.2	2.0	mg/l	20.0		101	90-110	0.2	15	NI
Batch: 11E0075 Extracted: 05/03/11										
Blank Analyzed: 05/03/2011 (11E0075-BLK1)										
Total Dissolved Solids	ND	20	mg/l							
LCS Analyzed: 05/03/2011 (11E0075-BS1)										
Total Dissolved Solids	988	20	mg/l	1000		99	80-115			
LCS Dup Analyzed: 05/03/2011 (11E0075-BSD1)										
Total Dissolved Solids	1000	20	mg/l	1000		100	80-115	2	10	
Duplicate Analyzed: 05/03/2011 (11E0075-DUP1)										
Total Dissolved Solids	3930	40	mg/l		Source: PUD1661-01 3990			2	10	
Duplicate Analyzed: 05/03/2011 (11E0075-DUP2)										
Total Dissolved Solids	1560	20	mg/l		Source: PUD1740-01 1560			0.3	10	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11E0076 Extracted: 05/03/11										
Blank Analyzed: 05/03/2011 (11E0076-BLK1)										
Perchlorate	ND	2.0	ug/l							
LCS Analyzed: 05/03/2011 (11E0076-BS1)										
Perchlorate	24.5	NA	ug/l	25.0		98	85-115			
LCS Dup Analyzed: 05/03/2011 (11E0076-BSD1)										
Perchlorate	25.0	NA	ug/l	25.0		100	85-115	2	15	
Duplicate Analyzed: 05/03/2011 (11E0076-DUP1)										
Perchlorate	1.19	2.0	ug/l		1.35			13	15	Source: PUD1699-03RE1
Matrix Spike Analyzed: 05/03/2011 (11E0076-MS1)										
Perchlorate	23.9	2.0	ug/l	25.0	1.12	91	80-120			Source: PUD1699-04RE1
Matrix Spike Dup Analyzed: 05/03/2011 (11E0076-MSD1)										
Perchlorate	24.5	2.0	ug/l	25.0	1.12	94	80-120	3	15	Source: PUD1699-04RE1
Batch: 11E0121 Extracted: 05/04/11										
Blank Analyzed: 05/04/2011 (11E0121-BLK1)										
Alkalinity as CaCO3	ND	6.0	mg/l							
Bicarbonate Alkalinity as CaCO3	ND	6.0	mg/l							
Carbonate Alkalinity as CaCO3	ND	6.0	mg/l							
Hydroxide Alkalinity as CaCO3	ND	6.0	mg/l							
Alkalinity, Phenolphthalein	ND	6.0	mg/l							
LCS Analyzed: 05/04/2011 (11E0121-BS2)										
Alkalinity as CaCO3	252	6.0	mg/l	250		101	90-110			

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 11E0121 Extracted: 05/04/11										
LCS Dup Analyzed: 05/04/2011 (11E0121-BSD2)										
Alkalinity as CaCO3	250	6.0	mg/l	250		100	90-110	1	20	
					Source: PUD1618-01					
Alkalinity as CaCO3	173	6.0	mg/l		172			0.5	20	
Bicarbonate Alkalinity as CaCO3	161	6.0	mg/l		161			0.04	20	
Carbonate Alkalinity as CaCO3	11.6	6.0	mg/l		10.7			8	20	
Hydroxide Alkalinity as CaCO3	ND	6.0	mg/l		ND				20	
Alkalinity, Phenolphthalein	ND	6.0	mg/l		ND				20	
					Source: PUD1621-01					
Alkalinity as CaCO3	195	6.0	mg/l		194			0.05	20	
Bicarbonate Alkalinity as CaCO3	195	6.0	mg/l		194			0.05	20	
Carbonate Alkalinity as CaCO3	ND	6.0	mg/l		ND				20	
Hydroxide Alkalinity as CaCO3	ND	6.0	mg/l		ND				20	
Alkalinity, Phenolphthalein	ND	6.0	mg/l		ND				20	

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METHOD BLANK/QC DATA

1,4-DIOXANE BY GCMS - SINGLE ION MONITORING (SIM)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11E0413 Extracted: 05/04/11										
Blank Analyzed: 05/04/2011 (11E0413-BLK1)										
1,4-Dioxane	ND	2.0	ug/l							
Surrogate: Dibromofluoromethane	0.900		ug/l	1.00		90	80-120			
LCS Analyzed: 05/04/2011 (11E0413-BS1)										
1,4-Dioxane	9.24	2.0	ug/l	10.0		92	70-125			
Surrogate: Dibromofluoromethane	0.890		ug/l	1.00		89	80-120			
Matrix Spike Analyzed: 05/04/2011 (11E0413-MS1) Source: PUD1699-03										
1,4-Dioxane	9.69	2.0	ug/l	10.0	ND	97	70-130			
Surrogate: Dibromofluoromethane	0.940		ug/l	1.00		94	80-120			
Matrix Spike Dup Analyzed: 05/04/2011 (11E0413-MSD1) Source: PUD1699-03										
1,4-Dioxane	9.94	2.0	ug/l	10.0	ND	99	70-130	3	30	
Surrogate: Dibromofluoromethane	0.960		ug/l	1.00		96	80-120			

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DATA QUALIFIERS AND DEFINITIONS

- D1** Sample required dilution due to matrix.
- M2** Matrix spike recovery was low; the associated blank spike recovery was acceptable.
- M3** The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The associated blank spike recovery was acceptable.
- N1** See case narrative.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica Phoenix

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PUD1699 <Page 40 of 41>

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Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 200.7	Water		X
EPA 200.8	Water		X
EPA 245.1	Water		X
EPA 300.0	Water		X
EPA 314.0	Water		X
EPA 8260B	Water	X	X
SM 2320B	Water		X
SM 2540C	Water		

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

Subcontracted Laboratories

TestAmerica - Irvine, CA NELAC Cert #01108CA, California Cert #1197, Arizona Cert #AZ0671, Nevada Cert #CA72-2002-63

17461 Derian Ave. Suite 100 - Irvine, CA 92614

Method Performed: EPA 8260B-SIM

Samples: PUD1699-02, PUD1699-03, PUD1699-04, PUD1699-05, PUD1699-06

TestAmerica Phoenix

Tina Paulauskas
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

PUD1699 <Page 41 of 41>

[] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
 [] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
 [] Las Vegas - 2520 E. Sunset, Suite 3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

FAL-0013-550 (12/08)

Client Name / Address:
 Malcolm Pirnie Inc.
 4646 E Van Buren St Ste 400
 Phoenix AZ 85009

Project / PO Number:
 UPCO/3994018

Project Manager:
 Greg Guimond

Sampler:
 Brian Brockman

Phone Number:
 602-214-1990

Fax Number:
 602-231-0131

Analysis Required

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	314 perchlorate	General Chem E500 Cl, SO4, NO3, NH4, Zn, Cd, Cr, Pb	2415.1 Hg, Se, Ag	200.7 Ca, Mg, K, Na	8260B VOCs	8260B SIM 1,4-dioxane	Special Instructions
TB042811-1	Lab H2O	VOA	1	-	-	HCl							01
TB042811-2	Lab H2O	VOA	1	-	-	HCl							02
MW-17	GW	500ml poly	1	4/28/11	0737	None	X						03
MW-17	GW	500ml poly	1	4/28/11	0737	None		X					1
MW-17	GW	500ml poly	1	4/28/11	0737	HNO3			X	X	X		04
MW-17	GW	VOA	12	4/28/11	0737	HCl					X	X	05
MW-16	GW	500ml poly	1	4/28/11	1150	None	X						1
MW-16	GW	500ml poly	1	4/28/11	1150	None		X					1
MW-16	GW	500ml poly	1	4/28/11	1150	HNO3			X	X	X		1
MW-16	GW	VOA	6	4/28/11	1150	HCl					X	X	1
MW-19	GW	500ml poly	1	4/28/11	1335	None	X						05
MW-19	GW	500ml poly	1	4/28/11	1335	None		X					} High perchlorate conc.
MW-19	GW	500ml poly	1	4/28/11	1335	HNO3			X	X	X		
MW-19	GW	VOA	6	4/28/11	1335	HCl					X	X	

Relinquished By: Brian Brockman Date/Time: 4/28/11 1540

Received By: _____ Date/Time: _____

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

Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: _____

Sample Integrity: (Check)
 intact on ice

Note: By relinquishing samples to TestAmerica, 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.

3.42

THE LEADER IN ENVIRONMENTAL TESTING
TAL-0013-550 (10/10)

- [] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
- [] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
- [] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Client Name/Address: <i>Malcolm Pirnie Inc. 4646 E Van Buren St Ste 400 Phoenix AZ 85008</i>							Project/PO Number: <i>UPCO/3994018</i>							Analysis Required																				
Project Manager: <i>Greg Guimond</i>							Phone Number: <i>602-214-1790</i>							<table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <tr> <td style="width: 10%;"><i>314</i></td> <td style="width: 10%;"><i>perchlorate</i></td> <td style="width: 10%;"><i>E300</i></td> <td style="width: 10%;"><i>M2520</i></td> <td style="width: 10%;"><i>M2540</i></td> <td style="width: 10%;"><i>As, Ba, Cd</i></td> <td style="width: 10%;"><i>Cr, Pb</i></td> <td style="width: 10%;"><i>245.1 Ng, Sc, Ag</i></td> <td style="width: 10%;"><i>200.7 Ca, Mg, K</i></td> <td style="width: 10%;"><i>Na</i></td> <td style="width: 10%;"><i>8260B</i></td> <td style="width: 10%;"><i>VOCS</i></td> <td style="width: 10%;"><i>8260B SW</i></td> <td style="width: 10%;"><i>1,4-dioxane</i></td> </tr> </table>							<i>314</i>	<i>perchlorate</i>	<i>E300</i>	<i>M2520</i>	<i>M2540</i>	<i>As, Ba, Cd</i>	<i>Cr, Pb</i>	<i>245.1 Ng, Sc, Ag</i>	<i>200.7 Ca, Mg, K</i>	<i>Na</i>	<i>8260B</i>	<i>VOCS</i>	<i>8260B SW</i>	<i>1,4-dioxane</i>
<i>314</i>	<i>perchlorate</i>	<i>E300</i>	<i>M2520</i>	<i>M2540</i>	<i>As, Ba, Cd</i>	<i>Cr, Pb</i>	<i>245.1 Ng, Sc, Ag</i>	<i>200.7 Ca, Mg, K</i>	<i>Na</i>	<i>8260B</i>	<i>VOCS</i>	<i>8260B SW</i>	<i>1,4-dioxane</i>																					
Sampler: <i>Brian Brockman</i>							Fax Number: <i>602-231-0131</i>																											
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives							Special Instructions																					
<i>FD042811-01</i>	<i>GW</i>	<i>500ml poly</i>	<i>1</i>	<i>4/28/11</i>	<i>1200</i>	<i>None</i>	<i>X</i>						<i>06</i>																					
<i>PD042811-01</i>	<i>GW</i>	<i>500ml poly</i>	<i>1</i>	<i>4/28/11</i>	<i>1200</i>	<i>None</i>		<i>X</i>					<i>I</i>																					
<i>FD042811-01</i>	<i>GW</i>	<i>500ml poly</i>	<i>1</i>	<i>4/28/11</i>	<i>1200</i>	<i>HNO3</i>			<i>X</i>	<i>X</i>	<i>X</i>		<i>I</i>																					
<i>FD042811-01</i>	<i>GW</i>	<i>VOA</i>	<i>6</i>	<i>4/28/11</i>	<i>1200</i>	<i>HCl</i>				<i>X</i>	<i>X</i>		<i>I</i>																					
<i>BB</i>																																		
Relinquished By: <i>Brian Brockman</i>							Date/Time: <i>4/28/11 1540</i>							Received By: <i>[Signature]</i>							Date/Time:													
Relinquished By:							Date/Time:							Received By:							Date/Time:													
Relinquished By:							Date/Time:							Received in Lab By: <i>[Signature]</i>							Date/Time: <i>4/28/11 1540</i>							Turnaround Time: (Check) same day _____ 72 hours _____ 24 hours _____ 5 days _____ 48 hours _____ normal <input checked="" type="checkbox"/>						
Relinquished By:							Date/Time:							Received in Lab By:							Date/Time:							Sample Integrity: (Check) intact <input checked="" type="checkbox"/> on ice <input checked="" type="checkbox"/>						

Note: By relinquishing samples to TestAmerica, 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.

3.42

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO-3994018

Sampled: 04/28/11
Received: 04/28/11
Issued: 05/09/11 12:59

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID

PUD1694-01

CLIENT ID

MW-16

MATRIX

Water

SAMPLE RECEIPT: Samples were received intact, at 3°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Reviewed By:



TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUD1694

Sampled: 04/28/11

Received: 04/28/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUD1694-01 (MW-16 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 332.0	11E0486	0.20	0.65	2	5/4/2011	5/4/2011	

TestAmerica Phoenix

Tina Paulauskas
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

PUD1694 <Page 2 of 5>

ARCADIS U.S., Inc. - Phoenix
 4646 E Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO-3994018
 Report Number: PUD1694

Sampled: 04/28/11
 Received: 04/28/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11E0486 Extracted: 05/04/11										
Blank Analyzed: 05/04/2011 (11E0486-BLK1)										
Perchlorate	ND	0.10	ug/l							
LCS Analyzed: 05/04/2011 (11E0486-BS1)										
Perchlorate	4.87	0.10	ug/l	5.00		97	80-120			
Matrix Spike Analyzed: 05/04/2011 (11E0486-MS1)										
Perchlorate	5.35	0.20	ug/l	5.00	0.645	94	80-120			
Matrix Spike Dup Analyzed: 05/04/2011 (11E0486-MSD1)										
Perchlorate	5.12	0.20	ug/l	5.00	0.645	90	80-120	4	20	

TestAmerica Phoenix

Tina Paulauskas
 Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUD1694

Sampled: 04/28/11

Received: 04/28/11

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD Relative Percent Difference

TestAmerica Phoenix

Tina Paulauskas
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced,
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PUD1694 <Page 4 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUD1694

Sampled: 04/28/11

Received: 04/28/11

Certification Summary

Subcontracted Laboratories

TestAmerica - Irvine, CA *NELAC Cert #01108CA, California Cert #1197, Arizona Cert #AZ0671, Nevada Cert #CA72-2002-63*

17461 Derian Ave. Suite 100 - Irvine, CA 92614

Method Performed: EPA 332.0

Samples: PUD1694-01

TestAmerica Phoenix

Tina Paulauskas
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced,
except in full, without written permission from TestAmerica.*

PUD1694 <Page 5 of 5>

THE LEADER IN ENVIRONMENTAL TESTING
TAL-0013-550 (10/10)

[] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
 [] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
 [] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Page 1 of 1

Client Name/Address: Medco Inc 4646 E Van Buren St #400 Phoenix AZ 85008			Project/PO Number: UPCO/8994018				Analysis Required								
Project Manager: Greg Gummund			Phone Number: 602-214-1770				332 perchlorate								
Sampler: Brian Brochner			Fax Number: 602-231-0131												
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives									Special Instructions
MW-16	GW	500ml poly	1	4/24/11	1150	None	X								Pu01694-01
Relinquished By: Brian Brochner		Date/Time: 4/24/11 1540		Received By:		Date/Time:		Turnaround Time: (Check)							
Relinquished By:		Date/Time:		Received By:		Date/Time:		same day _____ 72 hours _____ 24 hours _____ 5 days _____ 48 hours _____ normal <input checked="" type="checkbox"/>							
Relinquished By:		Date/Time:		Received in Lab By: Cull		Date/Time: 4/27/11 15:40		Sample Integrity: (Check)							
								intact <input checked="" type="checkbox"/> on ice <input checked="" type="checkbox"/>							

Note: By relinquishing samples to TestAmerica, 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.

342

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO-3994018

Sampled: 04/28/11
Received: 04/28/11
Issued: 05/09/11 13:07

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID

PUD1695-01

CLIENT ID

MW-17

MATRIX

Water

SAMPLE RECEIPT: Samples were received intact, at 3°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Reviewed By:



TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUD1695

Sampled: 04/28/11

Received: 04/28/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUD1695-01 (MW-17 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 332.0	11E0486	0.20	0.73	2	5/4/2011	5/4/2011	

TestAmerica Phoenix

Tina Paulauskas
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

PUD1695 <Page 2 of 5>

ARCADIS U.S., Inc. - Phoenix
 4646 E Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO-3994018
 Report Number: PUD1695

Sampled: 04/28/11
 Received: 04/28/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11E0486 Extracted: 05/04/11										
Blank Analyzed: 05/04/2011 (11E0486-BLK1)										
Perchlorate	ND	0.10	ug/l							
LCS Analyzed: 05/04/2011 (11E0486-BS1)										
Perchlorate	4.87	0.10	ug/l	5.00		97	80-120			
Matrix Spike Analyzed: 05/04/2011 (11E0486-MS1)										
Perchlorate	5.35	0.20	ug/l	5.00	0.645	94	80-120			
Matrix Spike Dup Analyzed: 05/04/2011 (11E0486-MSD1)										
Perchlorate	5.12	0.20	ug/l	5.00	0.645	90	80-120	4	20	

TestAmerica Phoenix

Tina Paulauskas
 Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUD1695

Sampled: 04/28/11

Received: 04/28/11

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD Relative Percent Difference

TestAmerica Phoenix

Tina Paulauskas
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced,
except in full, without written permission from TestAmerica.*

PUD1695 <Page 4 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUD1695

Sampled: 04/28/11

Received: 04/28/11

Certification Summary

Subcontracted Laboratories

TestAmerica - Irvine, CA *NELAC Cert #01108CA, California Cert #1197, Arizona Cert #AZ0671, Nevada Cert #CA72-2002-63*

17461 Derian Ave. Suite 100 - Irvine, CA 92614

Method Performed: EPA 332.0

Samples: PUD1695-01

TestAmerica Phoenix

Tina Paulauskas
Project Manager

THE LEADER IN ENVIRONMENTAL TESTING

TAL-0013-550 (10/10)

- [] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
- [] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
- [] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Page 1 of 1

Client Name/Address: <i>Walton Piping Inc 4646 E Van Buren St Ste 400 Phoenix</i>		Project/PO Number: <i>UPCO/3994018</i>			Analysis Required						
Project Manager: <i>Greg Guinnard</i>		Phone Number: <i>602-214-1770</i>			<i>332 perchlorate</i>						
Sampler: <i>Bryan Brockman</i>		Fax Number: <i>602-231-0131</i>									
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives					Special Instructions
<i>MW-17</i>	<i>GW</i>	<i>500ml poly</i>	<i>1</i>	<i>4/28/11</i>	<i>0737</i>	<i>None</i>	<i>X</i>				<i>PU01695-01</i>
<i>BB</i>											
Relinquished By: <i>Bryan Brockman</i>		Date/Time: <i>4/28/11 1540</i>		Received By:		Date/Time:		Turnaround Time: (Check)			
Relinquished By:		Date/Time:		Received By:		Date/Time:		same day _____ 72 hours _____			
Relinquished By:		Date/Time:		Received in Lab By: <i>AK</i>		Date/Time: <i>4/28/11 15:40</i>		24 hours _____ 5 days _____			
Relinquished By:		Date/Time:		Received in Lab By:		Date/Time:		48 hours _____ normal <input checked="" type="checkbox"/>			
Relinquished By:		Date/Time:		Received in Lab By:		Date/Time:		Sample Integrity: (Check)			
Relinquished By:		Date/Time:		Received in Lab By:		Date/Time:		intact <input checked="" type="checkbox"/> on ice <input checked="" type="checkbox"/>			

Note: By relinquishing samples to TestAmerica, 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.

3.406

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO-3994018

Sampled: 07/27/11
Received: 07/27/11
Issued: 07/31/11 09:22

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID

PUG1726-01

CLIENT ID

MW9

MATRIX

Water

SAMPLE RECEIPT: Samples were received intact, at 3°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:



TestAmerica Phoenix

Kylie Emily For Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1726

Sampled: 07/27/11

Received: 07/27/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUG1726-01 (MW9 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11G1033	2.0	ND	1	7/28/2011	7/28/2011	

TestAmerica Phoenix

Kylie Emily For Tina Paulauskas
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

PUG1726 <Page 2 of 5>

ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO-3994018
 Report Number: PUG1726

Sampled: 07/27/11
 Received: 07/27/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11G1033 Extracted: 07/28/11										
Blank Analyzed: 07/28/2011 (11G1033-BLK1)										
Perchlorate	ND	2.0	ug/l							
LCS Analyzed: 07/28/2011 (11G1033-BS1)										
Perchlorate	24.9	2.0	ug/l	25.0		100	85-115			
LCS Dup Analyzed: 07/28/2011 (11G1033-BSD1)										
Perchlorate	25.0	2.0	ug/l	25.0		100	85-115	0.3	15	
Duplicate Analyzed: 07/28/2011 (11G1033-DUP1)										
Perchlorate	1.35	2.0	ug/l					38	15	R9
Matrix Spike Analyzed: 07/28/2011 (11G1033-MS1)										
Perchlorate	24.4	2.0	ug/l	25.0	1.23	93	80-120			
Matrix Spike Dup Analyzed: 07/28/2011 (11G1033-MSD1)										
Perchlorate	23.9	2.0	ug/l	25.0	1.23	91	80-120	2	15	

TestAmerica Phoenix

Kylie Emily For Tina Paulauskas
 Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1726

Sampled: 07/27/11

Received: 07/27/11

DATA QUALIFIERS AND DEFINITIONS

- R9** Sample RPD exceeded the laboratory acceptance limit
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica Phoenix

Kylie Emily For Tina Paulauskas
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced,
except in full, without written permission from TestAmerica.*

PUG1726 <Page 4 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1726

Sampled: 07/27/11

Received: 07/27/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 314.0	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

Kylie Emily For Tina Paulauskas
Project Manager

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PUG1726 <Page 5 of 5>

ID#: 16992

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Page 1 of 1

Lab Work Order # PUG1726

Send Results to:	Contact & Company Name: <i>ARCADIS</i>	Telephone: <i>602 438 0883</i>
	Address: <i>4646 EVANBUEN</i>	Fax: <i>602 438 0102</i>
	City State Zip: <i>PHX AZ 85008</i>	E-mail Address:
	Project Name/Location (City, State): <i>UPCO</i>	

Preservative	<i>E</i>						
Filtered (✓)							
# of Containers	<i>1</i>						
Container Information	<i>3</i>						

Keys

Preservation Key:
 A. H₂SO₄
 B. HCL
 C. HNO₃
 D. NaOH
 E. None
 F. Other:
 G. Other:
 H. Other:

Container Information Key:
 1. 40 ml Vial
 2. 1 L Amber
 3. 250 ml Plastic
 4. 500 ml Plastic
 5. Encore
 6. 2 oz. Glass
 7. 4 oz. Glass
 8. 8 oz. Glass
 9. Other:
 10. Other:

Matrix Key:
 SO - Soil SE - Sediment NL - NAPL/Oil
 W - Water SL - Sludge SW - Sample Wipe
 T - Tissue A - Air Other:

PARAMETER ANALYSIS & METHOD

Sample ID	Collection		Type (✓)		Matrix	PARAMETER ANALYSIS & METHOD										REMARKS									
	Date	Time	Comp.	Grab		<i>314 DRUGS/TOX</i>																			
<i>MW9</i>	<i>7-27</i>	<i>8:35</i>		<i>Y</i>	<i>U</i>	<i>X</i>																	<i>OL</i>		

Special Instructions/Comments: Special QA/QC Instructions (✓):

Laboratory Information and Receipt		Relinquished By		Received By		Relinquished By		Laboratory Received By	
Lab Name: <i>TEST AMERICA</i>	Cooler Custody Seal (✓) <input type="checkbox"/> Intact <input type="checkbox"/> Not Intact	Printed Name: <i>Mark Sudo</i>	Signature: <i>Mark Sudo</i>	Printed Name:	Signature:	Printed Name:	Signature:	Printed Name: <i>Johnson</i>	Signature: <i>RJ Johnson</i>
<input checked="" type="checkbox"/> Cooler packed with ice (✓)	Sample Receipt: Condition/Cooler Temp: <i>2.6</i>	Firm: <i>ARCADIS</i>	Date/Time: <i>7-27-11 1634</i>	Firm/Courier:	Date/Time:	Firm/Courier:	Date/Time:	Firm: <i>TA</i>	Date/Time: <i>7-27-11 1634</i>
Specify Turnaround Requirements:	Shipping Tracking #:								

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO 039940180000

Sampled: 07/28/11
Received: 07/28/11
Issued: 08/08/11 09:26

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PUG1815-01	MW7	Water
PUG1815-02	MW8	Water
PUG1815-03	MW10	Water
PUG1815-04	MW3	Water
PUG1815-05	MW6	Water

SAMPLE RECEIPT: Samples were received intact, at 3°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:



TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO 039940180000

Report Number: PUG1815

Sampled: 07/28/11

Received: 07/28/11

TOTAL METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUG1815-02 (MW8 - Water)								
Reporting Units: mg/l								
Mercury	EPA 245.1	11G1057	0.00020	ND	1	7/29/2011	7/29/2011	

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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PUG1815 <Page 2 of 10>

ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO 039940180000

Report Number: PUG1815

Sampled: 07/28/11
 Received: 07/28/11

TOTAL METALS BY ICP/MS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUG1815-02 (MW8 - Water)								
Reporting Units: mg/l								
Arsenic	EPA 200.8	11G1103	0.0010	0.046	1	7/29/2011	8/3/2011	
Barium	EPA 200.8	11G1103	0.0010	0.0065	1	7/29/2011	8/3/2011	
Cadmium	EPA 200.8	11G1103	0.0010	ND	1	7/29/2011	8/3/2011	
Chromium	EPA 200.8	11G1103	0.0010	0.022	1	7/29/2011	8/3/2011	
Lead	EPA 200.8	11G1103	0.0010	0.0055	1	7/29/2011	8/3/2011	
Selenium	EPA 200.8	11G1103	0.0020	ND	1	7/29/2011	8/3/2011	
Silver	EPA 200.8	11G1103	0.0010	ND	1	7/29/2011	8/3/2011	

TestAmerica Phoenix

Tina Paulauskas
 Project Manager

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PUG1815 <Page 3 of 10>

ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO 039940180000

Report Number: PUG1815

Sampled: 07/28/11

Received: 07/28/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUG1815-01 (MW7 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11H0151	2.0	ND	1	8/2/2011	8/2/2011	
Sample ID: PUG1815-02 (MW8 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11H0151	2.0	ND	1	8/2/2011	8/2/2011	
Sample ID: PUG1815-03 (MW10 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11H0151	2.0	ND	1	8/2/2011	8/2/2011	
Sample ID: PUG1815-04 (MW3 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11H0151	2.0	ND	1	8/2/2011	8/2/2011	
Sample ID: PUG1815-05 (MW6 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11H0151	2.0	14	1	8/2/2011	8/2/2011	

TestAmerica Phoenix

Tina Paulauskas
 Project Manager

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PUG1815 <Page 4 of 10>

ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO 039940180000

Report Number: PUG1815

Sampled: 07/28/11

Received: 07/28/11

METHOD BLANK/QC DATA

TOTAL METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11G1057 Extracted: 07/29/11										
Blank Analyzed: 07/29/2011 (11G1057-BLK1)										
Mercury	ND	0.00020	mg/l							
LCS Analyzed: 07/29/2011 (11G1057-BS1)										
Mercury	0.00973	0.00020	mg/l	0.0100		97	85-115			
LCS Dup Analyzed: 07/29/2011 (11G1057-BSD1)										
Mercury	0.00977	0.00020	mg/l	0.0100		98	85-115	0.5	20	
Matrix Spike Analyzed: 07/29/2011 (11G1057-MS1)										
Mercury	0.00969	0.00020	mg/l	0.0100	ND	97	70-130			
Matrix Spike Analyzed: 07/29/2011 (11G1057-MS2)										
Mercury	0.00986	0.00020	mg/l	0.0100	ND	99	70-130			
Matrix Spike Dup Analyzed: 07/29/2011 (11G1057-MSD1)										
Mercury	0.00999	0.00020	mg/l	0.0100	ND	100	70-130	3	20	
Matrix Spike Dup Analyzed: 07/29/2011 (11G1057-MSD2)										
Mercury	0.00999	0.00020	mg/l	0.0100	ND	100	70-130	1	20	

TestAmerica Phoenix

Tina Paulauskas
 Project Manager

ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO 039940180000

Report Number: PUG1815

Sampled: 07/28/11

Received: 07/28/11

METHOD BLANK/QC DATA

TOTAL METALS BY ICP/MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11G1103 Extracted: 07/29/11										
Blank Analyzed: 08/03/2011 (11G1103-BLK1)										
Arsenic	ND	0.0010	mg/l							
Barium	ND	0.0010	mg/l							
Cadmium	ND	0.0010	mg/l							
Chromium	ND	0.0010	mg/l							
Lead	ND	0.0010	mg/l							
Selenium	ND	0.0020	mg/l							
Silver	ND	0.0010	mg/l							
LCS Analyzed: 08/03/2011 (11G1103-BS1)										
Arsenic	0.0969	0.0010	mg/l	0.100		97	85-115			
Barium	0.107	0.0010	mg/l	0.100		107	85-115			
Cadmium	0.106	0.0010	mg/l	0.100		106	85-115			
Chromium	0.0969	0.0010	mg/l	0.100		97	85-115			
Lead	0.110	0.0010	mg/l	0.100		110	85-115			
Selenium	0.0965	0.0020	mg/l	0.100		96	85-115			
Silver	0.0993	0.0010	mg/l	0.100		99	85-115			
LCS Dup Analyzed: 08/03/2011 (11G1103-BSD1)										
Arsenic	0.0958	0.0010	mg/l	0.100		96	85-115	1	20	
Barium	0.106	0.0010	mg/l	0.100		106	85-115	0.2	20	
Cadmium	0.104	0.0010	mg/l	0.100		104	85-115	2	20	
Chromium	0.0965	0.0010	mg/l	0.100		96	85-115	0.5	20	
Lead	0.109	0.0010	mg/l	0.100		109	85-115	1	20	
Selenium	0.0951	0.0020	mg/l	0.100		95	85-115	1	20	
Silver	0.0970	0.0010	mg/l	0.100		97	85-115	2	20	
Matrix Spike Analyzed: 08/03/2011 (11G1103-MS1)										
					Source: PUG1730-01					
Arsenic	0.0995	0.0010	mg/l	0.100	0.00123	98	70-130			
Barium	0.141	0.0010	mg/l	0.100	0.0362	105	70-130			
Cadmium	0.105	0.0010	mg/l	0.100	ND	105	70-130			
Chromium	0.0971	0.0010	mg/l	0.100	0.000421	97	70-130			
Lead	0.105	0.0010	mg/l	0.100	0.000227	105	70-130			
Selenium	0.0954	0.0020	mg/l	0.100	ND	95	70-130			
Silver	0.0908	0.0010	mg/l	0.100	ND	91	70-130			

TestAmerica Phoenix

Tina Paulauskas
 Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO 039940180000
Report Number: PUG1815

Sampled: 07/28/11
Received: 07/28/11

METHOD BLANK/QC DATA

TOTAL METALS BY ICP/MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11G1103 Extracted: 07/29/11										
Matrix Spike Analyzed: 08/03/2011 (11G1103-MS2)					Source: PUG1730-02					
Arsenic	0.0973	0.0010	mg/l	0.100	0.000553	97	70-130			
Barium	0.144	0.0010	mg/l	0.100	0.0375	107	70-130			
Cadmium	0.105	0.0010	mg/l	0.100	ND	105	70-130			
Chromium	0.0959	0.0010	mg/l	0.100	ND	96	70-130			
Lead	0.108	0.0010	mg/l	0.100	0.00196	106	70-130			
Selenium	0.0943	0.0020	mg/l	0.100	ND	94	70-130			
Silver	0.0931	0.0010	mg/l	0.100	0.000558	93	70-130			
Matrix Spike Dup Analyzed: 08/03/2011 (11G1103-MSD1)					Source: PUG1730-01					
Arsenic	0.100	0.0010	mg/l	0.100	0.00123	99	70-130	0.5	20	
Barium	0.143	0.0010	mg/l	0.100	0.0362	107	70-130	1	20	
Cadmium	0.106	0.0010	mg/l	0.100	ND	106	70-130	1	20	
Chromium	0.0993	0.0010	mg/l	0.100	0.000421	99	70-130	2	20	
Lead	0.106	0.0010	mg/l	0.100	0.000227	105	70-130	0.6	20	
Selenium	0.0943	0.0020	mg/l	0.100	ND	94	70-130	1	20	
Silver	0.0950	0.0010	mg/l	0.100	ND	95	70-130	5	20	
Matrix Spike Dup Analyzed: 08/03/2011 (11G1103-MSD2)					Source: PUG1730-02					
Arsenic	0.0979	0.0010	mg/l	0.100	0.000553	97	70-130	0.7	20	
Barium	0.145	0.0010	mg/l	0.100	0.0375	108	70-130	0.5	20	
Cadmium	0.106	0.0010	mg/l	0.100	ND	106	70-130	0.7	20	
Chromium	0.0978	0.0010	mg/l	0.100	ND	98	70-130	2	20	
Lead	0.109	0.0010	mg/l	0.100	0.00196	107	70-130	0.2	20	
Selenium	0.0958	0.0020	mg/l	0.100	ND	96	70-130	2	20	
Silver	0.0935	0.0010	mg/l	0.100	0.000558	93	70-130	0.4	20	

TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO 039940180000

Report Number: PUG1815

Sampled: 07/28/11

Received: 07/28/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11H0151 Extracted: 08/02/11										
Blank Analyzed: 08/02/2011 (11H0151-BLK1)										
Perchlorate	ND	2.0	ug/l							
LCS Analyzed: 08/02/2011 (11H0151-BS1)										
Perchlorate	24.7	2.0	ug/l	25.0		99	85-115			
LCS Dup Analyzed: 08/02/2011 (11H0151-BSD1)										
Perchlorate	24.6	2.0	ug/l	25.0		98	85-115	0.4	15	
Duplicate Analyzed: 08/02/2011 (11H0151-DUP1)										
Perchlorate	14.4	2.0	ug/l							
					Source: PUG1815-05					
					14.2			0.9	15	
Matrix Spike Analyzed: 08/02/2011 (11H0151-MS1)										
Perchlorate	25.6	2.0	ug/l	25.0						
					Source: PUG1815-02					
					1.37	97	80-120			
Matrix Spike Dup Analyzed: 08/02/2011 (11H0151-MSD1)										
Perchlorate	25.9	2.0	ug/l	25.0						
					Source: PUG1815-02					
					1.37	98	80-120	1	15	

TestAmerica Phoenix

Tina Paulauskas
 Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO 039940180000

Report Number: PUG1815

Sampled: 07/28/11

Received: 07/28/11

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD Relative Percent Difference

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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except in full, without written permission from TestAmerica.*

PUG1815 <Page 9 of 10>

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO 039940180000

Report Number: PUG1815

Sampled: 07/28/11

Received: 07/28/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 200.8	Water		X
EPA 245.1	Water		X
EPA 314.0	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

Tina Paulauskas
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

PUG1815 <Page 10 of 10>

ID#: 16994

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Lab Work Order # **PUG 1815**

Send Results to: **ARCADIS**
 Telephone: **602 4380885**
 Address: **4646 EVANS BLVD**
 City: **PHX** State: **AZ** Zip: **85008**
 Project Name/Location (City, State): **UPCO**
 Project #: **039940180000**
 Sampler's Printed Name: **Mark Sawko**
 Sampler's Signature: *[Signature]*

Preservative	E	C							
Filtered (✓)									
# of Containers	1	1							
Container Information	3	4							

PARAMETER ANALYSIS & METHOD

*514 PERMUTAP
 200.0 AS WA CD
 100.0 CR FS SE*

Keys

Preservation Key:	Container Information Key:
A. H ₂ SO ₄	1. 40 ml Vial
B. HCL	2. 1 L Amber
C. HNO ₃	3. 250 ml Plastic
D. NaOH	4. 500 ml Plastic
E. None	5. Encore
F. Other: _____	6. 2 oz. Glass
G. Other: _____	7. 4 oz. Glass
H. Other: _____	8. 8 oz. Glass
	9. Other: _____
	10. Other: _____

Matrix Key:

SO - Soil	SE - Sediment	NL - NAPL/Oil
W - Water	SL - Sludge	SW - Sample Wipe
T - Tissue	A - Air	Other: _____

Sample ID	Collection		Type (✓)		Matrix	PARAMETER ANALYSIS & METHOD				REMARKS	
	Date	Time	Comp	Grab							
MW7	7-28	830	X	W	X						-01
MW8	7-28	10:00	X	W	X	X					-02
MW10	7-28	1044	X	W	X						-03
MW5	7-28	1140	X	W	X						-04
MW6	7-28	1231	X	W	X						-05

Special Instructions/Comments: _____ Special QA/QC Instructions(✓): _____

Laboratory Information and Receipt		Relinquished By	Received By	Relinquished By	Laboratory Received By
Lab Name: TEST AMERICA	Cooler Custody Seal (✓) <input type="checkbox"/> Intact <input type="checkbox"/> Not Intact	Printed Name: Mark Sawko Signature: <i>[Signature]</i>	Printed Name: _____ Signature: _____	Printed Name: _____ Signature: _____	Printed Name: <i>[Signature]</i> Signature: <i>[Signature]</i>
<input checked="" type="checkbox"/> Cooler packed with ice (✓)	Sample Receipt: _____	Firm: ARCADIS	Firm/Courier: _____	Firm/Courier: _____	Firm: TH - Ahx
Specify Turnaround Requirements: _____	Condition/Cooler Temp: 2.6°C	Date/Time: 7-28-11 1332	Date/Time: _____	Date/Time: _____	Date/Time: 7/28/11 1332

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: 0399440180000

Sampled: 07/29/11
Received: 07/29/11
Issued: 08/08/11 11:28

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PUG1899-01	MW4	Water
PUG1899-02	MW15	Water
PUG1899-03	MW11	Water
PUG1899-04	MW5	Water
PUG1899-05	MW12	Water

SAMPLE RECEIPT: Samples were received intact, at 4°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:



TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: 0399440180000

Report Number: PUG1899

Sampled: 07/29/11

Received: 07/29/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUG1899-01 (MW4 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11H0154	2.0	ND	1	8/3/2011	8/3/2011	
Sample ID: PUG1899-02 (MW15 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11H0154	2.0	ND	1	8/3/2011	8/3/2011	
Sample ID: PUG1899-03 (MW11 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11H0154	2.0	2.0	1	8/3/2011	8/3/2011	
Sample ID: PUG1899-04 (MW5 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11H0154	2.0	22	1	8/3/2011	8/3/2011	
Sample ID: PUG1899-05 (MW12 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11H0154	2.0	ND	1	8/3/2011	8/3/2011	

TestAmerica Phoenix

Tina Paulauskas
 Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

PUG1899 <Page 2 of 5>

ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: 0399440180000
 Report Number: PUG1899

Sampled: 07/29/11
 Received: 07/29/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11H0154 Extracted: 08/03/11										
Blank Analyzed: 08/03/2011 (11H0154-BLK1)										
Perchlorate	ND	2.0	ug/l							
LCS Analyzed: 08/03/2011 (11H0154-BS1)										
Perchlorate	24.0	2.0	ug/l	25.0		96	85-115			
LCS Dup Analyzed: 08/03/2011 (11H0154-BSD1)										
Perchlorate	23.9	2.0	ug/l	25.0		96	85-115	0.1	15	
Duplicate Analyzed: 08/03/2011 (11H0154-DUP1)										
Perchlorate	22.3	2.0	ug/l		22.4			0.4	15	
Matrix Spike Analyzed: 08/03/2011 (11H0154-MS1)										
Perchlorate	21.5	2.0	ug/l	25.0	ND	86	80-120			
Matrix Spike Dup Analyzed: 08/03/2011 (11H0154-MSD1)										
Perchlorate	23.1	2.0	ug/l	25.0	ND	93	80-120	7	15	

TestAmerica Phoenix

Tina Paulauskas
 Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: 0399440180000

Report Number: PUG1899

Sampled: 07/29/11

Received: 07/29/11

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD Relative Percent Difference

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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PUG1899 <Page 4 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: 0399440180000

Report Number: PUG1899

Sampled: 07/29/11

Received: 07/29/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 314.0	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

Tina Paulauskas
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

PUG1899 <Page 5 of 5>

ID#: **16998**

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Lab Work Order #

Send Results to:	Contact & Company Name: ARCADIS	Telephone: 602 438 0883	Preservative: E																		
	Address: 4646 E VAUBUREN	Fax: 607 430 0102	# of Containers: 1																		
	City: PHX	State: AZ	Zip: 85008	Container Information: 3																	
	Project Name/Location (City, State):			PARAMETER ANALYSIS & METHOD																	
Project #: 039940180000			314 PERFLUORATE																		
Sampler's Printed Name: Mark Savko																					
Sampler's Signature: <i>[Signature]</i>																					
Sample ID	Collection		Type (✓)		Matrix																REMARKS
	Date	Time	Comp	Grab																	
MW4	7-29	5:36	X	W	X																PUG 1899-01
MW15	7-29	7:49	X	W	X																-02
MW11	7-29	9:33	X	W	X																-03
MW5	7-29	10:45	X	W	X																-04
MW12	7-29	13:15	X	W	X																-05

- Keys**
- Preservation Key:**
 A. H₂SO₄
 B. HCL
 C. HNO₃
 D. NaOH
 E. None
 F. Other: _____
 G. Other: _____
 H. Other: _____
- Container Information Key:**
 1. 40 ml Vial
 2. 1 L Amber
 3. 250 ml Plastic
 4. 500 ml Plastic
 5. Encore
 6. 2 oz. Glass
 7. 4 oz. Glass
 8. 8 oz. Glass
 9. Other: _____
 10. Other: _____
- Matrix Key:**
 SO - Soil SE - Sediment NL - NAPL/Oil
 W - Water SL - Sludge SW - Sample Wipe
 T - Tissue A - Air Other: _____

Special Instructions/Comments: _____ Special QA/QC Instructions(✓): _____

Laboratory Information and Receipt		Relinquished By		Received By		Relinquished By		Laboratory Received By	
Lab Name: TEST AMERICA	Cooler Custody Seal (✓) <input type="checkbox"/> Intact <input type="checkbox"/> Not Intact	Printed Name: Mark Savko	Signature: <i>[Signature]</i>	Printed Name:	Signature:	Printed Name:	Signature:	Printed Name: Peter Floyd	Signature: <i>[Signature]</i>
<input checked="" type="checkbox"/> Cooler packed with ice (✓)	Sample Receipt:	Firm: ARCADIS	Firm/Courier:	Firm/Courier:	Firm/Courier:	Firm: TA	Firm/Courier:	Firm/Courier:	Firm/Courier:
Shipping Tracking #:	Condition/Cooler Temp: 3.8	Date/Time: 7-29-11 1522	Date/Time:	Date/Time:	Date/Time:	Date/Time: 7/29/11 1522	Date/Time:	Date/Time:	Date/Time:

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO 039940180000

Sampled: 08/01/11
Received: 08/01/11
Issued: 08/15/11 13:01

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PUH0083-01	MW17	Water
PUH0083-02	MW1	Water
PUH0083-03	MW2	Water
PUH0083-04	DUP	Water
PUH0083-05	Trip Blank	Water

SAMPLE RECEIPT: Samples were received intact, at 3°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: Results that fall between the MDL and RL are 'E4' flagged.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

ADDITIONAL INFORMATION: Chain-of-Custody does not list Perchlorate analysis for sample PUH0083 -04, however a sample container was received for Perchlorate for this sample. Per client request, Perchlorate was analyzed and reported for sample PUH0083 -04.

Reviewed By:



TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO 039940180000

Report Number: PUH0083

Sampled: 08/01/11

Received: 08/01/11

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUH0083-01 (MW17 - Water)					Sampled: 08/01/11				
Reporting Units: ug/l									
Perchlorate	EPA 314.0	11H0154	N/A	2.0	ND	1	08/03/11	08/03/11	
Sample ID: PUH0083-02 (MW1 - Water)					Sampled: 08/01/11				
Reporting Units: ug/l									
Perchlorate	EPA 314.0	11H0154	N/A	10	68	5	08/03/11	08/03/11	
Sample ID: PUH0083-03 (MW2 - Water)					Sampled: 08/01/11				
Reporting Units: ug/l									
Perchlorate	EPA 314.0	11H0154	N/A	10	84	5	08/03/11	08/03/11	
Sample ID: PUH0083-04 (DUP - Water)					Sampled: 08/01/11				
Reporting Units: ug/l									
Perchlorate	EPA 314.0	11H0154	N/A	10	83	5	08/03/11	08/03/11	

TestAmerica Phoenix

Tina Paulauskas
 Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO 039940180000

Report Number: PUH0083

Sampled: 08/01/11

Received: 08/01/11

1,4-DIOXANE BY GCMS - SINGLE ION MONITORING (SIM)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUH0083-02 (MW1 - Water)					Sampled: 08/01/11				
Reporting Units: ug/l									
1,4-Dioxane	EPA 8260B-SIM	11H1117	1.0	2.0	ND	1	08/09/11	08/09/11	
<i>Surrogate: Dibromofluoromethane (80-120%)</i>					<i>120 %</i>				
Sample ID: PUH0083-03 (MW2 - Water)					Sampled: 08/01/11				
Reporting Units: ug/l									
1,4-Dioxane	EPA 8260B-SIM	11H1117	1.0	2.0	2.7	1	08/09/11	08/09/11	
<i>Surrogate: Dibromofluoromethane (80-120%)</i>					<i>116 %</i>				
Sample ID: PUH0083-04 (DUP - Water)					Sampled: 08/01/11				
Reporting Units: ug/l									
1,4-Dioxane	EPA 8260B-SIM	11H1117	1.0	2.0	2.6	1	08/09/11	08/09/11	
<i>Surrogate: Dibromofluoromethane (80-120%)</i>					<i>117 %</i>				
Sample ID: PUH0083-05 (Trip Blank - Water)					Sampled: 08/01/11				
Reporting Units: ug/l									
1,4-Dioxane	EPA 8260B-SIM	11H1117	1.0	2.0	ND	1	08/09/11	08/09/11	
<i>Surrogate: Dibromofluoromethane (80-120%)</i>					<i>117 %</i>				

TestAmerica Phoenix

Tina Paulauskas
 Project Manager

ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO 039940180000

Report Number: PUH0083

Sampled: 08/01/11

Received: 08/01/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 11H0154 Extracted: 08/03/11											
Blank Analyzed: 08/03/2011 (11H0154-BLK1)											
Perchlorate	ND	2.0	N/A	ug/l							
LCS Analyzed: 08/03/2011 (11H0154-BS1)											
Perchlorate	24.0	2.0	N/A	ug/l	25.0		96	85-115			
LCS Dup Analyzed: 08/03/2011 (11H0154-BSD1)											
Perchlorate	23.9	2.0	N/A	ug/l	25.0		96	85-115	0.1	15	
Duplicate Analyzed: 08/03/2011 (11H0154-DUP1)											
Perchlorate	22.3	2.0	N/A	ug/l		Source: PUG1899-04 22.4			0.4	15	
Matrix Spike Analyzed: 08/03/2011 (11H0154-MS1)											
Perchlorate	21.5	2.0	N/A	ug/l	25.0	Source: PUH0158-04 ND	86	80-120			
Matrix Spike Dup Analyzed: 08/03/2011 (11H0154-MSD1)											
Perchlorate	23.1	2.0	N/A	ug/l	25.0	Source: PUH0158-04 ND	93	80-120	7	15	

TestAmerica Phoenix

Tina Paulauskas
 Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO 039940180000
Report Number: PUH0083

Sampled: 08/01/11
Received: 08/01/11

METHOD BLANK/QC DATA

1,4-DIOXANE BY GCMS - SINGLE ION MONITORING (SIM)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11H1117 Extracted: 08/09/11											
Blank Analyzed: 08/09/2011 (11H1117-BLK1)											
1,4-Dioxane	ND	2.0	1.0	ug/l							
Surrogate: Dibromofluoromethane	1.10			ug/l	1.00		110	80-120			
LCS Analyzed: 08/09/2011 (11H1117-BS1)											
1,4-Dioxane	9.98	2.0	1.0	ug/l	10.0		100	70-125			
Surrogate: Dibromofluoromethane	1.07			ug/l	1.00		107	80-120			
LCS Dup Analyzed: 08/09/2011 (11H1117-BSD1)											
1,4-Dioxane	10.7	2.0	1.0	ug/l	10.0		107	70-125	7	30	
Surrogate: Dibromofluoromethane	1.09			ug/l	1.00		109	80-120			
Matrix Spike Analyzed: 08/09/2011 (11H1117-MS1)											
						Source: PUH0083-02					
1,4-Dioxane	11.1	2.0	1.0	ug/l	10.0	ND	111	70-130			
Surrogate: Dibromofluoromethane	1.17			ug/l	1.00		117	80-120			
Matrix Spike Dup Analyzed: 08/09/2011 (11H1117-MSD1)											
						Source: PUH0083-02					
1,4-Dioxane	11.1	2.0	1.0	ug/l	10.0	ND	111	70-130	0.09	30	
Surrogate: Dibromofluoromethane	1.14			ug/l	1.00		114	80-120			

TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO 039940180000

Report Number: PUH0083

Sampled: 08/01/11

Received: 08/01/11

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD Relative Percent Difference

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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PUH0083 <Page 6 of 7>

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO 039940180000

Report Number: PUH0083

Sampled: 08/01/11

Received: 08/01/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 314.0	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

Subcontracted Laboratories

TestAmerica - Irvine, CA NELAC Cert #01108CA, California Cert #1197, Arizona Cert #AZ0671, Nevada Cert #CA72-2002-63, ORELAP Cert #Text1

17461 Derian Ave., Suite 100 - Irvine, CA 92614

Method Performed: EPA 8260B-SIM

Samples: PUH0083-02, PUH0083-03, PUH0083-04, PUH0083-05

TestAmerica Phoenix

Tina Paulauskas
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

PUH0083 <Page 7 of 7>

ID#: 16997

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Lab Work Order #

Send Results to:	Contact & Company Name: ARCADIS		Telephone: 602 438 0885		Preservative: E A						Keys Preservation Key: A. H ₂ SO ₄ B. HCl C. HNO ₃ D. NaOH E. None F. Other: _____ G. Other: _____ H. Other: _____ Container Information Key: 1. 40 ml Vial 2. 1 L Amber 3. 250 ml Plastic 4. 500 ml Plastic 5. Encore 6. 2 oz. Glass 7. 4 oz. Glass 8. 8 oz. Glass 9. Other: _____ 10. Other: _____ Matrix Key: SO - Soil SE - Sediment NL - NAPL/Oil W - Water SL - Sludge SW - Sample Wipe T - Tissue A - Air Other: _____	
	Address: 4646 E VAN BUREN		Fax: 602 438 0102		Filtered (✓):							
	City: PAX	State: AZ	Zip: 85008	E-mail Address:		# of Containers:	1	3				
	Project Name/Location (City, State): UPCO			Project #: 039940180000		Container Information:	3	1				
Sampler's Printed Name: Mark Sawko		Sampler's Signature: <i>[Signature]</i>		PARAMETER ANALYSIS & METHOD								
Sample ID					Collection		Type (✓)		Matrix		PERCHLORATE 514 1,4-DIOXANE 8220 +	
	Date	Time	Comp	Grab								
MW17	8-1	713		X	W			X				
MW1	8-1	1135		X	W			X	X			
MW2	8-1	1232		X	W			X	X			
DUP	8-1	1300		X	W				X			
TRIP BLANK	8-1			X	W				X			
REMARKS												
PUH00883-01												
-02												
-03												
-04												
-05												
Special Instructions/Comments:					<input type="checkbox"/> Special QA/QC Instructions(✓):							
Laboratory Information and Receipt												
Lab Name: TEST AMERICA	Cooler Custody Seal (✓)		Relinquished By:		Received By:		Relinquished By:		Laboratory Received By:			
<input checked="" type="checkbox"/> Cooler packed with ice (✓)	<input type="checkbox"/> Intact <input type="checkbox"/> Not Intact		Printed Name: Mark Sawko		Printed Name: [Blank]		Printed Name: [Blank]		Printed Name: Peter Floyd			
Specify Turnaround Requirements:	Sample Receipt:		Signature: <i>[Signature]</i>		Signature: [Blank]		Signature: [Blank]		Signature: <i>[Signature]</i>			
Shipping Tracking #:	Condition/Cooler Temp: 2-6°C		Firm: ARCADIS		Firm/Courier:		Firm/Courier:		Firm: JTA			
			Date/Time: 8-11 1655		Date/Time:		Date/Time:		Date/Time: 8/11 1655			

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO 39940180000

Sampled: 08/02/11
Received: 08/02/11
Issued: 08/08/11 13:40

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PUH0158-01	MW14	Water
PUH0158-02	MW16	Water
PUH0158-03	MW13	Water
PUH0158-04	MW18	Water
PUH0158-05	DUP	Water

SAMPLE RECEIPT: Samples were received intact, at 4°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:



TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO 39940180000

Report Number: PUH0158

Sampled: 08/02/11

Received: 08/02/11

TOTAL METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUH0158-04 (MW18 - Water)				Sampled: 08/02/11				
Reporting Units: mg/l								
Arsenic	EPA 200.7	11H0144	0.10	ND	1	8/3/2011	8/4/2011	
Barium	EPA 200.7	11H0144	0.010	0.015	1	8/3/2011	8/4/2011	
Cadmium	EPA 200.7	11H0144	0.0010	ND	1	8/3/2011	8/4/2011	
Chromium	EPA 200.7	11H0144	0.010	ND	1	8/3/2011	8/4/2011	
Lead	EPA 200.7	11H0144	0.015	ND	1	8/3/2011	8/4/2011	
Mercury	EPA 245.1	11H0233	0.00020	ND	1	8/5/2011	8/5/2011	
Selenium	EPA 200.7	11H0144	0.10	ND	1	8/3/2011	8/4/2011	
Silver	EPA 200.7	11H0144	0.010	ND	1	8/3/2011	8/4/2011	
Sample ID: PUH0158-05 (DUP - Water)				Sampled: 08/02/11				
Reporting Units: mg/l								
Arsenic	EPA 200.7	11H0144	0.10	ND	1	8/3/2011	8/4/2011	
Barium	EPA 200.7	11H0144	0.010	0.016	1	8/3/2011	8/4/2011	
Cadmium	EPA 200.7	11H0144	0.0010	ND	1	8/3/2011	8/4/2011	
Chromium	EPA 200.7	11H0144	0.010	ND	1	8/3/2011	8/4/2011	
Lead	EPA 200.7	11H0144	0.015	ND	1	8/3/2011	8/4/2011	
Mercury	EPA 245.1	11H0233	0.00020	ND	1	8/5/2011	8/5/2011	
Selenium	EPA 200.7	11H0144	0.10	ND	1	8/3/2011	8/4/2011	
Silver	EPA 200.7	11H0144	0.010	ND	1	8/3/2011	8/4/2011	

TestAmerica Phoenix

Tina Paulauskas
 Project Manager

ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO 39940180000

Report Number: PUH0158

Sampled: 08/02/11

Received: 08/02/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUH0158-01 (MW14 - Water)				Sampled: 08/02/11				
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11H0154	2.0	ND	1	8/3/2011	8/3/2011	
Sample ID: PUH0158-02 (MW16 - Water)				Sampled: 08/02/11				
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11H0154	2.0	ND	1	8/3/2011	8/3/2011	
Sample ID: PUH0158-03 (MW13 - Water)				Sampled: 08/02/11				
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11H0154	2.0	7.4	1	8/3/2011	8/3/2011	
Sample ID: PUH0158-04 (MW18 - Water)				Sampled: 08/02/11				
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11H0154	2.0	ND	1	8/3/2011	8/3/2011	
Sample ID: PUH0158-05 (DUP - Water)				Sampled: 08/02/11				
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11H0154	2.0	ND	1	8/3/2011	8/3/2011	

TestAmerica Phoenix

Tina Paulauskas
 Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO 39940180000
Report Number: PUH0158

Sampled: 08/02/11
Received: 08/02/11

METHOD BLANK/QC DATA

TOTAL METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11H0144 Extracted: 08/03/11										
Blank Analyzed: 08/04/2011 (11H0144-BLK1)										
Arsenic	ND	0.10	mg/l							
Barium	ND	0.010	mg/l							
Cadmium	ND	0.0010	mg/l							
Chromium	ND	0.010	mg/l							
Lead	ND	0.015	mg/l							
Selenium	ND	0.10	mg/l							
Silver	ND	0.010	mg/l							
LCS Analyzed: 08/04/2011 (11H0144-BS1)										
Arsenic	0.961	0.10	mg/l	1.00		96	85-115			
Barium	0.977	0.010	mg/l	1.00		98	85-115			
Cadmium	0.991	0.0010	mg/l	1.00		99	85-115			
Chromium	0.966	0.010	mg/l	1.00		97	85-115			
Lead	0.959	0.015	mg/l	1.00		96	85-115			
Selenium	1.01	0.10	mg/l	1.00		101	85-115			
Silver	0.490	0.010	mg/l	0.500		98	85-115			
LCS Dup Analyzed: 08/04/2011 (11H0144-BSD1)										
Arsenic	0.923	0.10	mg/l	1.00		92	85-115	4	20	
Barium	0.952	0.010	mg/l	1.00		95	85-115	3	20	
Cadmium	0.968	0.0010	mg/l	1.00		97	85-115	2	20	
Chromium	0.944	0.010	mg/l	1.00		94	85-115	2	20	
Lead	0.924	0.015	mg/l	1.00		92	85-115	4	20	
Selenium	0.974	0.10	mg/l	1.00		97	85-115	4	20	
Silver	0.478	0.010	mg/l	0.500		96	85-115	2	20	
Matrix Spike Analyzed: 08/04/2011 (11H0144-MS1)										
Source: PUH0158-04										
Arsenic	0.993	0.10	mg/l	1.00	0.0178	98	75-125			
Barium	0.994	0.010	mg/l	1.00	0.0151	98	75-125			
Cadmium	0.998	0.0010	mg/l	1.00	ND	100	75-125			
Chromium	0.971	0.010	mg/l	1.00	0.00288	97	75-125			
Lead	0.970	0.015	mg/l	1.00	ND	97	75-125			
Selenium	1.02	0.10	mg/l	1.00	ND	102	75-125			
Silver	0.492	0.010	mg/l	0.500	ND	98	75-125			

TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO 39940180000
Report Number: PUH0158

Sampled: 08/02/11
Received: 08/02/11

METHOD BLANK/QC DATA

TOTAL METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11H0144 Extracted: 08/03/11										
Matrix Spike Analyzed: 08/04/2011 (11H0144-MS2)					Source: PUH0158-05					
Arsenic	0.974	0.10	mg/l	1.00	0.0178	96	75-125			
Barium	0.991	0.010	mg/l	1.00	0.0158	98	75-125			
Cadmium	0.994	0.0010	mg/l	1.00	ND	99	75-125			
Chromium	0.968	0.010	mg/l	1.00	0.00328	96	75-125			
Lead	0.945	0.015	mg/l	1.00	ND	95	75-125			
Selenium	1.00	0.10	mg/l	1.00	ND	100	75-125			
Silver	0.490	0.010	mg/l	0.500	ND	98	75-125			
Matrix Spike Dup Analyzed: 08/04/2011 (11H0144-MSD1)					Source: PUH0158-04					
Arsenic	0.957	0.10	mg/l	1.00	0.0178	94	75-125	4	20	
Barium	0.957	0.010	mg/l	1.00	0.0151	94	75-125	4	20	
Cadmium	0.964	0.0010	mg/l	1.00	ND	96	75-125	4	20	
Chromium	0.936	0.010	mg/l	1.00	0.00288	93	75-125	4	20	
Lead	0.936	0.015	mg/l	1.00	ND	94	75-125	4	20	
Selenium	0.983	0.10	mg/l	1.00	ND	98	75-125	4	20	
Silver	0.469	0.010	mg/l	0.500	ND	94	75-125	5	20	
Matrix Spike Dup Analyzed: 08/04/2011 (11H0144-MSD2)					Source: PUH0158-05					
Arsenic	0.938	0.10	mg/l	1.00	0.0178	92	75-125	4	20	
Barium	0.940	0.010	mg/l	1.00	0.0158	92	75-125	5	20	
Cadmium	0.947	0.0010	mg/l	1.00	ND	95	75-125	5	20	
Chromium	0.926	0.010	mg/l	1.00	0.00328	92	75-125	4	20	
Lead	0.914	0.015	mg/l	1.00	ND	91	75-125	3	20	
Selenium	0.982	0.10	mg/l	1.00	ND	98	75-125	2	20	
Silver	0.464	0.010	mg/l	0.500	ND	93	75-125	5	20	
Batch: 11H0233 Extracted: 08/05/11										
Blank Analyzed: 08/05/2011 (11H0233-BLK1)										
Mercury	ND	0.00020	mg/l							

TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO 39940180000

Report Number: PUH0158

Sampled: 08/02/11

Received: 08/02/11

METHOD BLANK/QC DATA

TOTAL METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11H0233 Extracted: 08/05/11										
LCS Analyzed: 08/05/2011 (11H0233-BS1)										
Mercury	0.0103	0.00020	mg/l	0.0100		103	85-115			
LCS Dup Analyzed: 08/05/2011 (11H0233-BSD1)										
Mercury	0.0112	0.00020	mg/l	0.0100		112	85-115	8	20	
Matrix Spike Analyzed: 08/05/2011 (11H0233-MS1)										
Mercury	0.0100	0.00020	mg/l	0.0100	ND	100	70-130			
Matrix Spike Analyzed: 08/05/2011 (11H0233-MS2)										
Mercury	0.0108	0.00020	mg/l	0.0100	ND	108	70-130			
Matrix Spike Dup Analyzed: 08/05/2011 (11H0233-MSD1)										
Mercury	0.0108	0.00020	mg/l	0.0100	ND	108	70-130	8	20	
Matrix Spike Dup Analyzed: 08/05/2011 (11H0233-MSD2)										
Mercury	0.0112	0.00020	mg/l	0.0100	ND	112	70-130	3	20	

TestAmerica Phoenix

Tina Paulauskas
 Project Manager

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ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO 39940180000
 Report Number: PUH0158

Sampled: 08/02/11
 Received: 08/02/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11H0154 Extracted: 08/03/11										
Blank Analyzed: 08/03/2011 (11H0154-BLK1)										
Perchlorate	ND	2.0	ug/l							
LCS Analyzed: 08/03/2011 (11H0154-BS1)										
Perchlorate	24.0	2.0	ug/l	25.0		96	85-115			
LCS Dup Analyzed: 08/03/2011 (11H0154-BSD1)										
Perchlorate	23.9	2.0	ug/l	25.0		96	85-115	0.1	15	
Duplicate Analyzed: 08/03/2011 (11H0154-DUP1)										
Perchlorate	22.3	2.0	ug/l		22.4			0.4	15	
Matrix Spike Analyzed: 08/03/2011 (11H0154-MS1)										
Perchlorate	21.5	2.0	ug/l	25.0	ND	86	80-120			
Matrix Spike Dup Analyzed: 08/03/2011 (11H0154-MSD1)										
Perchlorate	23.1	2.0	ug/l	25.0	ND	93	80-120	7	15	

TestAmerica Phoenix

Tina Paulauskas
 Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO 39940180000

Report Number: PUH0158

Sampled: 08/02/11

Received: 08/02/11

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD Relative Percent Difference

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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PUH0158 <Page 8 of 9>

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO 39940180000

Report Number: PUH0158

Sampled: 08/02/11

Received: 08/02/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 200.7	Water		X
EPA 245.1	Water		X
EPA 314.0	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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PUH0158 <Page 9 of 9>

ID#: 17029

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Lab Work Order # **PUH058**

Send Results to:	Contact & Company Name: ARCADIS	Telephone: 602 438 0883	Preservative	E	C					<p>Keys</p> <p>Preservation Key: A. H₂SO₄ B. HCL C. HNO₃ D. NaOH E. None F. Other: _____ G. Other: _____ H. Other: _____</p> <p>Container Information Key: 1. 40 ml Vial 2. 1 L Amber 3. 250 ml Plastic 4. 500 ml Plastic 5. Encore 6. 2 oz. Glass 7. 4 oz. Glass 8. 8 oz. Glass 9. Other: _____ 10. Other: _____</p> <p>Matrix Key: SO - Soil SE - Sediment NL - NAPL/Oil W - Water SL - Sludge SW - Sample Wipe T - Tissue A - Air Other: _____</p>	
	Address: 4646 E VAN BUREN	Fax: 602 438 0102	# of Containers	1	1						
	City: PHX State: AZ Zip: 85008	E-mail Address:	Container Information	3	4						
	PARAMETER ANALYSIS & METHOD										
Project Name/Location (City, State): UPCO	Project #: 039940189000	PERMUTATE 314 METALS									
Sampler's Printed Name: Mark Sanko	Sampler's Signature: <i>[Signature]</i>										
Sample ID	Collection		Type (✓)		Matrix					REMARKS	
	Date	Time	Comp	Grab							
MW14	8-2	630		X	W	X					-01
MW16	8-2	1045		X	W	X					-02
MW13	8-2	1244		X	W	X					-03
MW18	8-2	1355		X	W	X	X			MS/MSD	-04
DUP	8-2	1415		V	W	X	X				-05
Special Instructions/Comments: _____ <input type="checkbox"/> Special QA/QC Instructions(✓): _____											
Laboratory Information and Receipt			Relinquished By		Received By		Relinquished By		Laboratory Received By		
Lab Name: TEST AMERICA	Cooler Custody Seal (✓) <input type="checkbox"/> Intact <input type="checkbox"/> Not Intact		Printed Name: Mark Sanko	Signature: <i>[Signature]</i>	Printed Name:	Signature:	Printed Name:	Signature:	Printed Name: Peter Floyd	Signature: <i>[Signature]</i>	
<input checked="" type="checkbox"/> Cooler packed with ice (✓)	Sample Receipt:		Firm: ARCADIS	Date/Time: 8-2-11 1500	Firm/Courier:	Date/Time:	Firm: TA Phx	Date/Time: 8/2/11 1500			
Specify Turnaround Requirements:	Condition/Cooler Temp: 36°										
Shipping Tracking #:											

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO 039940180000

Sampled: 08/03/11
Received: 08/03/11
Issued: 08/08/11 13:46

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID

PUH0188-01

CLIENT ID

MW19

MATRIX

Water

SAMPLE RECEIPT: Samples were received intact, at 6°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:



TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO 039940180000

Report Number: PUH0188

Sampled: 08/03/11

Received: 08/03/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUH0188-01 (MW19 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11H0154	4000	48000	2000	8/3/2011	8/3/2011	

TestAmerica Phoenix

Tina Paulauskas
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

PUH0188 <Page 2 of 5>

ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO 039940180000
 Report Number: PUH0188

Sampled: 08/03/11
 Received: 08/03/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11H0154 Extracted: 08/03/11										
Blank Analyzed: 08/03/2011 (11H0154-BLK1)										
Perchlorate	ND	2.0	ug/l							
LCS Analyzed: 08/03/2011 (11H0154-BS1)										
Perchlorate	24.0	2.0	ug/l	25.0		96	85-115			
LCS Dup Analyzed: 08/03/2011 (11H0154-BSD1)										
Perchlorate	23.9	2.0	ug/l	25.0		96	85-115	0.1	15	
Duplicate Analyzed: 08/03/2011 (11H0154-DUP1)										
Perchlorate	22.3	2.0	ug/l							
					Source: PUG1899-04					
					22.4			0.4	15	
Matrix Spike Analyzed: 08/03/2011 (11H0154-MS1)										
Perchlorate	21.5	2.0	ug/l	25.0	ND	86	80-120			
					Source: PUH0158-04					
Matrix Spike Dup Analyzed: 08/03/2011 (11H0154-MSD1)										
Perchlorate	23.1	2.0	ug/l	25.0	ND	93	80-120	7	15	
					Source: PUH0158-04					

TestAmerica Phoenix

Tina Paulauskas
 Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO 039940180000

Report Number: PUH0188

Sampled: 08/03/11

Received: 08/03/11

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD Relative Percent Difference

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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PUH0188 <Page 4 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO 039940180000

Report Number: PUH0188

Sampled: 08/03/11

Received: 08/03/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 314.0	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

Tina Paulauskas
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

PUH0188 <Page 5 of 5>

Send Results to:	Contact & Company Name: ARCADIS	Telephone: 602 438 0883
	Address: 4046 E VANROSEN	Fax: 602 438 0102
	City State Zip: PHX AZ 85008	E-mail Address:
	Project Name/Location (City, State): UPCO	Project #: 039940180000

Preservative: E									
Filtered (✓)									
# of Containers: 1									
Container Information: 3									

- Keys**
- Preservation Key:**
- A. H₂SO₄
 - B. HCL
 - C. HNO₃
 - D. NaOH
 - E. None
 - F. Other: _____
 - G. Other: _____
 - H. Other: _____
- Container Information Key:**
- 1. 40 ml Vial
 - 2. 1 L Amber
 - 3. 250 ml Plastic
 - 4. 500 ml Plastic
 - 5. Encore
 - 6. 2 oz. Glass
 - 7. 4 oz. Glass
 - 8. 8 oz. Glass
 - 9. Other: _____
 - 10. Other: _____
- Matrix Key:**
- SO - Soil
 - W - Water
 - T - Tissue
 - SE - Sediment
 - SL - Sludge
 - A - Air
 - NL - NAPL/Oil
 - SW - Sample Wipe
 - Other: _____

PARAMETER ANALYSIS & METHOD

PERRHOANE 314

Sampler's Printed Name: Mark Soule	Sampler's Signature:
--	--------------------------

Sample ID	Collection		Type (✓)		Matrix
	Date	Time	Comp	Grab	
MW 19	8-3-11	6:27	X	W	X

REMARKS -01

Special Instructions/Comments: _____ Special QA/QC Instructions (✓):

Laboratory Information and Receipt		Relinquished By	Received By	Relinquished By	Laboratory Received By
Lab Name: TEST AMERICA	Cooler Custody Seal (✓) <input type="checkbox"/> Intact <input type="checkbox"/> Not Intact	Printed Name: Mark Soule	Printed Name:	Printed Name:	Printed Name: Peter Floyd
<input checked="" type="checkbox"/> Cooler packed with ice (✓)	Sample Receipt: Condition/Cooler Temp: 6-0°C	Signature: 	Signature:	Signature:	Signature:
Specify Turnaround Requirements:	Firm: ARCADIS	Firm:	Firm/Courier:	Firm/Courier:	Firm: TA
Shipping Tracking #:	Date/Time: 8-3-11 917	Date/Time:	Date/Time:	Date/Time: 8/3/11 0917	Date/Time:

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: 03994018

Sampled: 09/06/11
Received: 09/06/11
Issued: 09/15/11 11:00

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID

PUI0188-01
PUI0188-02

CLIENT ID

PW-1
Trip

MATRIX

Water
Water

SAMPLE RECEIPT: Samples were received intact, at 3°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Reviewed By:



TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: 03994018

Report Number: PUI0188

Sampled: 09/06/11

Received: 09/06/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0188-01 (PW-1 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0358	10	ND	1	9/12/2011	9/12/2011	
Benzene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
Bromobenzene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
Bromochloromethane	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
Bromodichloromethane	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
Bromoform	EPA 8260B	11I0358	1.0	ND	1	9/12/2011	9/12/2011	
Bromomethane	EPA 8260B	11I0358	1.0	ND	1	9/12/2011	9/12/2011	
2-Butanone (MEK)	EPA 8260B	11I0358	2.5	ND	1	9/12/2011	9/12/2011	
n-Butylbenzene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
sec-Butylbenzene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
tert-Butylbenzene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
Carbon disulfide	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
Carbon tetrachloride	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
Chlorobenzene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
Chloroethane	EPA 8260B	11I0358	1.0	ND	1	9/12/2011	9/12/2011	
Chloroform	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
Chloromethane	EPA 8260B	11I0358	1.0	ND	1	9/12/2011	9/12/2011	
2-Chlorotoluene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
4-Chlorotoluene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
Dibromochloromethane	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0358	2.5	ND	1	9/12/2011	9/12/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
Dibromomethane	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
Dichlorodifluoromethane	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
1,1-Dichloroethane	EPA 8260B	11I0358	0.50	0.72	1	9/12/2011	9/12/2011	
1,2-Dichloroethane	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
1,1-Dichloroethene	EPA 8260B	11I0358	0.50	6.2	1	9/12/2011	9/12/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
1,2-Dichloropropane	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
1,3-Dichloropropane	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
2,2-Dichloropropane	EPA 8260B	11I0358	1.0	ND	1	9/12/2011	9/12/2011	
1,1-Dichloropropene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
Ethylbenzene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
Hexachlorobutadiene	EPA 8260B	11I0358	1.0	ND	1	9/12/2011	9/12/2011	

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Tina Paulauskas
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ARCADIS U.S., Inc. - Phoenix
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Project ID: 03994018

Report Number: PUI0188

Sampled: 09/06/11

Received: 09/06/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0188-01 (PW-1 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0358	2.5	ND	1	9/12/2011	9/12/2011	
Iodomethane	EPA 8260B	11I0358	2.5	ND	1	9/12/2011	9/12/2011	
Isopropylbenzene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
p-Isopropyltoluene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
Methylene Chloride	EPA 8260B	11I0358	1.0	ND	1	9/12/2011	9/12/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0358	2.5	ND	1	9/12/2011	9/12/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
Naphthalene	EPA 8260B	11I0358	2.5	ND	1	9/12/2011	9/12/2011	
n-Propylbenzene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
Styrene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
Tetrachloroethene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
Toluene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0358	1.0	ND	1	9/12/2011	9/12/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0358	1.0	ND	1	9/12/2011	9/12/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
Trichloroethene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
Trichlorofluoromethane	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0358	1.0	ND	1	9/12/2011	9/12/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
Vinyl Acetate	EPA 8260B	11I0358	1.0	ND	1	9/12/2011	9/12/2011	
Vinyl chloride	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
Xylenes, Total	EPA 8260B	11I0358	1.5	ND	1	9/12/2011	9/12/2011	
Surrogate: Dibromofluoromethane (70-130%)				101 %				
Surrogate: Toluene-d8 (70-130%)				100 %				
Surrogate: 4-Bromofluorobenzene (70-130%)				102 %				

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Project Manager

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PUI0188 <Page 3 of 21>

ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: 03994018

Report Number: PUI0188

Sampled: 09/06/11

Received: 09/06/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0188-02 (Trip - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0358	10	ND	1	9/12/2011	9/12/2011	
Benzene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
Bromobenzene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
Bromochloromethane	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
Bromodichloromethane	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
Bromoform	EPA 8260B	11I0358	1.0	ND	1	9/12/2011	9/12/2011	
Bromomethane	EPA 8260B	11I0358	1.0	ND	1	9/12/2011	9/12/2011	
2-Butanone (MEK)	EPA 8260B	11I0358	2.5	ND	1	9/12/2011	9/12/2011	
n-Butylbenzene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
sec-Butylbenzene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
tert-Butylbenzene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
Carbon disulfide	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
Carbon tetrachloride	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
Chlorobenzene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
Chloroethane	EPA 8260B	11I0358	1.0	ND	1	9/12/2011	9/12/2011	
Chloroform	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
Chloromethane	EPA 8260B	11I0358	1.0	ND	1	9/12/2011	9/12/2011	
2-Chlorotoluene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
4-Chlorotoluene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
Dibromochloromethane	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0358	2.5	ND	1	9/12/2011	9/12/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
Dibromomethane	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
Dichlorodifluoromethane	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
1,1-Dichloroethane	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
1,2-Dichloroethane	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
1,1-Dichloroethene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
1,2-Dichloropropane	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
1,3-Dichloropropane	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
2,2-Dichloropropane	EPA 8260B	11I0358	1.0	ND	1	9/12/2011	9/12/2011	
1,1-Dichloropropene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
Ethylbenzene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
Hexachlorobutadiene	EPA 8260B	11I0358	1.0	ND	1	9/12/2011	9/12/2011	

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ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: 03994018

Report Number: PUI0188

Sampled: 09/06/11

Received: 09/06/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0188-02 (Trip - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0358	2.5	ND	1	9/12/2011	9/12/2011	
Iodomethane	EPA 8260B	11I0358	2.5	ND	1	9/12/2011	9/12/2011	
Isopropylbenzene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
p-Isopropyltoluene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
Methylene Chloride	EPA 8260B	11I0358	1.0	ND	1	9/12/2011	9/12/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0358	2.5	ND	1	9/12/2011	9/12/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
Naphthalene	EPA 8260B	11I0358	2.5	ND	1	9/12/2011	9/12/2011	
n-Propylbenzene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
Styrene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
Tetrachloroethene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
Toluene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0358	1.0	ND	1	9/12/2011	9/12/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0358	1.0	ND	1	9/12/2011	9/12/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
Trichloroethene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
Trichlorofluoromethane	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0358	1.0	ND	1	9/12/2011	9/12/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
Vinyl Acetate	EPA 8260B	11I0358	1.0	ND	1	9/12/2011	9/12/2011	
Vinyl chloride	EPA 8260B	11I0358	0.50	ND	1	9/12/2011	9/12/2011	
Xylenes, Total	EPA 8260B	11I0358	1.5	ND	1	9/12/2011	9/12/2011	
Surrogate: Dibromofluoromethane (70-130%)				101 %				
Surrogate: Toluene-d8 (70-130%)				99 %				
Surrogate: 4-Bromofluorobenzene (70-130%)				103 %				

TestAmerica Phoenix

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Attention: Gregory Guimond

Project ID: 03994018

Report Number: PUI0188

Sampled: 09/06/11

Received: 09/06/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0188-01RE1 (PW-1 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	1110430	2.0	4.1	1	9/13/2011	9/13/2011	

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PUI0188 <Page 6 of 21>

ARCADIS U.S., Inc. - Phoenix
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Project ID: 03994018

Report Number: PUI0188

Sampled: 09/06/11

Received: 09/06/11

1,4-DIOXANE BY GCMS - SINGLE ION MONITORING (SIM)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0188-01 (PW-1 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8260B-SIM	1111151	2.0	3.0	1	9/12/2011	9/12/2011	
<i>Surrogate: Dibromofluoromethane (80-120%)</i>				<i>106 %</i>				

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PUI0188 <Page 7 of 21>

ARCADIS U.S., Inc. - Phoenix
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Project ID: 03994018
Report Number: PUI0188

Sampled: 09/06/11
Received: 09/06/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits RPD	RPD Limit	Data Qualifiers
Batch: 1110358 Extracted: 09/12/11									
Blank Analyzed: 09/12/2011 (1110358-BLK1)									
Acetone	ND	10	ug/l						
Benzene	ND	0.50	ug/l						
Bromobenzene	ND	0.50	ug/l						
Bromochloromethane	ND	0.50	ug/l						
Bromodichloromethane	ND	0.50	ug/l						
Bromoform	ND	1.0	ug/l						
Bromomethane	ND	1.0	ug/l						
2-Butanone (MEK)	ND	2.5	ug/l						
n-Butylbenzene	ND	0.50	ug/l						
sec-Butylbenzene	ND	0.50	ug/l						
tert-Butylbenzene	ND	0.50	ug/l						
Carbon disulfide	ND	0.50	ug/l						
Carbon tetrachloride	ND	0.50	ug/l						
Chlorobenzene	ND	0.50	ug/l						
Chloroethane	ND	1.0	ug/l						
Chloroform	ND	0.50	ug/l						
Chloromethane	ND	1.0	ug/l						
2-Chlorotoluene	ND	0.50	ug/l						
4-Chlorotoluene	ND	0.50	ug/l						
Dibromochloromethane	ND	0.50	ug/l						
1,2-Dibromo-3-chloropropane	ND	2.5	ug/l						
1,2-Dibromoethane (EDB)	ND	0.50	ug/l						
Dibromomethane	ND	0.50	ug/l						
1,2-Dichlorobenzene	ND	0.50	ug/l						
1,3-Dichlorobenzene	ND	0.50	ug/l						
1,4-Dichlorobenzene	ND	0.50	ug/l						
Dichlorodifluoromethane	ND	0.50	ug/l						
1,1-Dichloroethane	ND	0.50	ug/l						
1,2-Dichloroethane	ND	0.50	ug/l						
1,1-Dichloroethene	ND	0.50	ug/l						
cis-1,2-Dichloroethene	ND	0.50	ug/l						
trans-1,2-Dichloroethene	ND	0.50	ug/l						
1,2-Dichloropropane	ND	0.50	ug/l						
1,3-Dichloropropane	ND	0.50	ug/l						
2,2-Dichloropropane	ND	1.0	ug/l						

TestAmerica Phoenix

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Report Number: PUI0188

Sampled: 09/06/11
Received: 09/06/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD RPD	RPD Limit	Data Qualifiers
Batch: 1110358 Extracted: 09/12/11									
Blank Analyzed: 09/12/2011 (1110358-BLK1)									
1,1-Dichloropropene	ND	0.50	ug/l						
cis-1,3-Dichloropropene	ND	0.50	ug/l						
trans-1,3-Dichloropropene	ND	0.50	ug/l						
Ethylbenzene	ND	0.50	ug/l						
Hexachlorobutadiene	ND	1.0	ug/l						
2-Hexanone	ND	2.5	ug/l						
Iodomethane	ND	2.5	ug/l						
Isopropylbenzene	ND	0.50	ug/l						
p-Isopropyltoluene	ND	0.50	ug/l						
Methylene Chloride	ND	1.0	ug/l						
4-Methyl-2-pentanone (MIBK)	ND	2.5	ug/l						
Methyl-tert-butyl Ether (MTBE)	ND	0.50	ug/l						
Naphthalene	ND	2.5	ug/l						
n-Propylbenzene	ND	0.50	ug/l						
Styrene	ND	0.50	ug/l						
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l						
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l						
Tetrachloroethene	ND	0.50	ug/l						
Toluene	ND	0.50	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	0.50	ug/l						
1,1,2-Trichloroethane	ND	0.50	ug/l						
Trichloroethene	ND	0.50	ug/l						
Trichlorofluoromethane	ND	0.50	ug/l						
1,2,3-Trichloropropane	ND	1.0	ug/l						
1,2,4-Trimethylbenzene	ND	0.50	ug/l						
1,3,5-Trimethylbenzene	ND	0.50	ug/l						
Vinyl Acetate	ND	1.0	ug/l						
Vinyl chloride	ND	0.50	ug/l						
Xylenes, Total	ND	1.5	ug/l						
Surrogate: Dibromofluoromethane	24.8		ug/l	25.0		99		70-130	
Surrogate: Toluene-d8	24.8		ug/l	25.0		99		70-130	
Surrogate: 4-Bromofluorobenzene	25.3		ug/l	25.0		101		70-130	

TestAmerica Phoenix

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Project ID: 03994018
Report Number: PUI0188

Sampled: 09/06/11
Received: 09/06/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD RPD	RPD Limit	Data Qualifiers
Batch: 11I0358 Extracted: 09/12/11									
LCS Analyzed: 09/12/2011 (11I0358-BS1)									
Acetone	27.0	10	ug/l	25.0		108	30-150		
Benzene	25.2	0.50	ug/l	25.0		101	70-130		
Bromobenzene	25.4	0.50	ug/l	25.0		102	70-130		
Bromochloromethane	25.5	0.50	ug/l	25.0		102	70-130		
Bromodichloromethane	25.0	0.50	ug/l	25.0		100	70-130		
Bromoform	27.4	1.0	ug/l	25.0		110	67-122		
Bromomethane	25.7	1.0	ug/l	25.0		103	64-132		
2-Butanone (MEK)	27.4	2.5	ug/l	25.0		110	48-150		
n-Butylbenzene	25.5	0.50	ug/l	25.0		102	70-130		
sec-Butylbenzene	24.9	0.50	ug/l	25.0		100	70-130		
tert-Butylbenzene	25.5	0.50	ug/l	25.0		102	70-130		
Carbon disulfide	29.2	0.50	ug/l	25.0		117	61-126		
Carbon tetrachloride	26.9	0.50	ug/l	25.0		108	70-130		
Chlorobenzene	25.5	0.50	ug/l	25.0		102	70-130		
Chloroethane	26.4	1.0	ug/l	25.0		106	69-128		
Chloroform	24.8	0.50	ug/l	25.0		99	70-130		
Chloromethane	23.1	1.0	ug/l	25.0		92	56-131		
2-Chlorotoluene	24.7	0.50	ug/l	25.0		99	70-130		
4-Chlorotoluene	25.1	0.50	ug/l	25.0		100	70-130		
Dibromochloromethane	25.6	0.50	ug/l	25.0		102	70-130		
1,2-Dibromo-3-chloropropane	25.9	2.5	ug/l	25.0		103	63-129		
1,2-Dibromoethane (EDB)	24.8	0.50	ug/l	25.0		99	70-130		
Dibromomethane	24.4	0.50	ug/l	25.0		98	70-130		
1,2-Dichlorobenzene	25.6	0.50	ug/l	25.0		103	70-130		
1,3-Dichlorobenzene	25.2	0.50	ug/l	25.0		101	70-130		
1,4-Dichlorobenzene	25.8	0.50	ug/l	25.0		103	70-130		
Dichlorodifluoromethane	24.4	0.50	ug/l	25.0		98	42-150		
1,1-Dichloroethane	25.3	0.50	ug/l	25.0		101	70-130		
1,2-Dichloroethane	24.8	0.50	ug/l	25.0		99	72-133		
1,1-Dichloroethene	25.9	0.50	ug/l	25.0		104	70-130		
cis-1,2-Dichloroethene	23.7	0.50	ug/l	25.0		95	70-130		
trans-1,2-Dichloroethene	25.6	0.50	ug/l	25.0		102	70-130		
1,2-Dichloropropane	24.9	0.50	ug/l	25.0		100	70-130		
1,3-Dichloropropane	23.4	0.50	ug/l	25.0		93	70-130		
2,2-Dichloropropane	27.1	1.0	ug/l	25.0		109	70-130		

TestAmerica Phoenix

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Report Number: PUI0188

Sampled: 09/06/11
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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD	RPD Limit	Data Qualifiers
Batch: 1110358 Extracted: 09/12/11										
LCS Analyzed: 09/12/2011 (1110358-BS1)										
1,1-Dichloropropene	24.6	0.50	ug/l	25.0		99	70-130			
cis-1,3-Dichloropropene	25.9	0.50	ug/l	25.0		104	70-130			
trans-1,3-Dichloropropene	25.7	0.50	ug/l	25.0		103	70-130			
Ethylbenzene	24.9	0.50	ug/l	25.0		99	70-130			
Hexachlorobutadiene	26.5	1.0	ug/l	25.0		106	70-130			
2-Hexanone	26.8	2.5	ug/l	25.0		107	44-150			
Iodomethane	30.2	2.5	ug/l	25.0		121	58-138			
Isopropylbenzene	26.7	0.50	ug/l	25.0		107	70-130			
p-Isopropyltoluene	25.8	0.50	ug/l	25.0		103	70-130			
Methylene Chloride	23.5	1.0	ug/l	25.0		94	70-130			
4-Methyl-2-pentanone (MIBK)	22.6	2.5	ug/l	25.0		90	61-142			
Methyl-tert-butyl Ether (MTBE)	23.3	0.50	ug/l	25.0		93	70-130			
Naphthalene	27.6	2.5	ug/l	25.0		110	65-129			
n-Propylbenzene	25.9	0.50	ug/l	25.0		103	70-130			
Styrene	23.5	0.50	ug/l	25.0		94	70-130			
1,1,1,2-Tetrachloroethane	25.9	0.50	ug/l	25.0		103	70-130			
1,1,2,2-Tetrachloroethane	24.4	0.50	ug/l	25.0		97	70-130			
Tetrachloroethene	25.5	0.50	ug/l	25.0		102	70-130			
Toluene	25.6	0.50	ug/l	25.0		103	70-130			
1,2,3-Trichlorobenzene	27.0	1.0	ug/l	25.0		108	70-130			
1,2,4-Trichlorobenzene	27.0	1.0	ug/l	25.0		108	70-130			
1,1,1-Trichloroethane	26.2	0.50	ug/l	25.0		105	70-130			
1,1,2-Trichloroethane	24.8	0.50	ug/l	25.0		99	70-130			
Trichloroethene	24.6	0.50	ug/l	25.0		98	70-130			
Trichlorofluoromethane	30.0	0.50	ug/l	25.0		120	78-149			
1,2,3-Trichloropropane	24.7	1.0	ug/l	25.0		99	70-130			
1,2,4-Trimethylbenzene	24.4	0.50	ug/l	25.0		98	70-130			
1,3,5-Trimethylbenzene	25.4	0.50	ug/l	25.0		102	70-130			
Vinyl Acetate	26.4	1.0	ug/l	25.0		106	57-149			
Vinyl chloride	24.4	0.50	ug/l	25.0		97	66-134			
Xylenes, Total	46.7	1.5	ug/l	50.0		93	70-130			
Surrogate: Dibromofluoromethane	24.0		ug/l	25.0		96	70-130			
Surrogate: Toluene-d8	25.2		ug/l	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	24.1		ug/l	25.0		96	70-130			

TestAmerica Phoenix

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 1110358 Extracted: 09/12/11										
LCS Dup Analyzed: 09/12/2011 (1110358-BSD1)										
Acetone	14.6	10	ug/l	25.0		58	30-150	60	35	R6
Benzene	25.0	0.50	ug/l	25.0		100	70-130	0.6	20	
Bromobenzene	25.7	0.50	ug/l	25.0		103	70-130	1	20	
Bromochloromethane	25.4	0.50	ug/l	25.0		101	70-130	0.5	20	
Bromodichloromethane	24.9	0.50	ug/l	25.0		100	70-130	0.7	20	
Bromoform	27.9	1.0	ug/l	25.0		111	67-122	1	20	
Bromomethane	25.4	1.0	ug/l	25.0		101	64-132	1	20	
2-Butanone (MEK)	21.7	2.5	ug/l	25.0		87	48-150	23	33	
n-Butylbenzene	25.3	0.50	ug/l	25.0		101	70-130	0.6	20	
sec-Butylbenzene	24.5	0.50	ug/l	25.0		98	70-130	2	20	
tert-Butylbenzene	25.4	0.50	ug/l	25.0		102	70-130	0.6	20	
Carbon disulfide	28.3	0.50	ug/l	25.0		113	61-126	3	20	
Carbon tetrachloride	26.4	0.50	ug/l	25.0		106	70-130	2	20	
Chlorobenzene	24.8	0.50	ug/l	25.0		99	70-130	3	20	
Chloroethane	26.2	1.0	ug/l	25.0		105	69-128	0.7	20	
Chloroform	24.4	0.50	ug/l	25.0		98	70-130	2	20	
Chloromethane	22.7	1.0	ug/l	25.0		91	56-131	2	20	
2-Chlorotoluene	24.6	0.50	ug/l	25.0		98	70-130	0.7	20	
4-Chlorotoluene	24.9	0.50	ug/l	25.0		100	70-130	0.6	20	
Dibromochloromethane	25.6	0.50	ug/l	25.0		102	70-130	0.04	20	
1,2-Dibromo-3-chloropropane	26.2	2.5	ug/l	25.0		105	63-129	1	25	
1,2-Dibromoethane (EDB)	24.5	0.50	ug/l	25.0		98	70-130	1	20	
Dibromomethane	24.3	0.50	ug/l	25.0		97	70-130	0.6	20	
1,2-Dichlorobenzene	25.8	0.50	ug/l	25.0		103	70-130	0.8	20	
1,3-Dichlorobenzene	25.2	0.50	ug/l	25.0		101	70-130	0.08	20	
1,4-Dichlorobenzene	25.6	0.50	ug/l	25.0		103	70-130	0.9	20	
Dichlorodifluoromethane	23.9	0.50	ug/l	25.0		96	42-150	2	20	
1,1-Dichloroethane	25.0	0.50	ug/l	25.0		100	70-130	1	20	
1,2-Dichloroethane	24.6	0.50	ug/l	25.0		98	72-133	0.9	20	
1,1-Dichloroethene	25.5	0.50	ug/l	25.0		102	70-130	2	20	
cis-1,2-Dichloroethene	23.7	0.50	ug/l	25.0		95	70-130	0.3	20	
trans-1,2-Dichloroethene	25.3	0.50	ug/l	25.0		101	70-130	1	20	
1,2-Dichloropropane	24.7	0.50	ug/l	25.0		99	70-130	1	20	
1,3-Dichloropropane	23.1	0.50	ug/l	25.0		92	70-130	1	20	
2,2-Dichloropropane	26.0	1.0	ug/l	25.0		104	70-130	4	20	

TestAmerica Phoenix

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 1110358 Extracted: 09/12/11										
LCS Dup Analyzed: 09/12/2011 (1110358-BSD1)										
1,1-Dichloropropene	24.5	0.50	ug/l	25.0		98	70-130	0.7	20	
cis-1,3-Dichloropropene	25.8	0.50	ug/l	25.0		103	70-130	0.3	20	
trans-1,3-Dichloropropene	25.8	0.50	ug/l	25.0		103	70-130	0.5	20	
Ethylbenzene	24.0	0.50	ug/l	25.0		96	70-130	4	20	
Hexachlorobutadiene	26.0	1.0	ug/l	25.0		104	70-130	2	20	
2-Hexanone	20.3	2.5	ug/l	25.0		81	44-150	28	31	
Iodomethane	29.7	2.5	ug/l	25.0		119	58-138	2	25	
Isopropylbenzene	26.3	0.50	ug/l	25.0		105	70-130	2	20	
p-Isopropyltoluene	25.8	0.50	ug/l	25.0		103	70-130	0.1	20	
Methylene Chloride	23.4	1.0	ug/l	25.0		94	70-130	0.1	20	
4-Methyl-2-pentanone (MIBK)	23.1	2.5	ug/l	25.0		92	61-142	2	22	
Methyl-tert-butyl Ether (MTBE)	23.7	0.50	ug/l	25.0		95	70-130	2	20	
Naphthalene	28.8	2.5	ug/l	25.0		115	65-129	5	20	
n-Propylbenzene	25.7	0.50	ug/l	25.0		103	70-130	0.5	20	
Styrene	22.6	0.50	ug/l	25.0		90	70-130	4	20	
1,1,1,2-Tetrachloroethane	24.9	0.50	ug/l	25.0		99	70-130	4	20	
1,1,2,2-Tetrachloroethane	25.3	0.50	ug/l	25.0		101	70-130	4	20	
Tetrachloroethene	24.8	0.50	ug/l	25.0		99	70-130	3	20	
Toluene	25.2	0.50	ug/l	25.0		101	70-130	2	20	
1,2,3-Trichlorobenzene	27.6	1.0	ug/l	25.0		110	70-130	2	20	
1,2,4-Trichlorobenzene	27.3	1.0	ug/l	25.0		109	70-130	1	20	
1,1,1-Trichloroethane	25.8	0.50	ug/l	25.0		103	70-130	2	20	
1,1,2-Trichloroethane	25.0	0.50	ug/l	25.0		100	70-130	1	20	
Trichloroethene	24.2	0.50	ug/l	25.0		97	70-130	1	20	
Trichlorofluoromethane	28.6	0.50	ug/l	25.0		114	78-149	5	20	
1,2,3-Trichloropropane	25.5	1.0	ug/l	25.0		102	70-130	3	20	
1,2,4-Trimethylbenzene	24.2	0.50	ug/l	25.0		97	70-130	0.6	20	
1,3,5-Trimethylbenzene	25.2	0.50	ug/l	25.0		101	70-130	1	20	
Vinyl Acetate	28.0	1.0	ug/l	25.0		112	57-149	6	21	
Vinyl chloride	23.4	0.50	ug/l	25.0		94	66-134	4	20	
Xylenes, Total	45.0	1.5	ug/l	50.0		90	70-130	4	20	
Surrogate: Dibromofluoromethane	24.5		ug/l	25.0		98	70-130			
Surrogate: Toluene-d8	25.2		ug/l	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	23.5		ug/l	25.0		94	70-130			

TestAmerica Phoenix

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD	RPD Limit	Data Qualifiers
Batch: 1110358 Extracted: 09/12/11										
Matrix Spike Analyzed: 09/12/2011 (1110358-MS1)					Source: PUI0188-01					
Acetone	11.7	10	ug/l	25.0	ND	47	10-150			
Benzene	25.7	0.50	ug/l	25.0	0.160	102	70-130			
Bromobenzene	25.3	0.50	ug/l	25.0	ND	101	70-130			
Bromochloromethane	24.9	0.50	ug/l	25.0	ND	99	70-130			
Bromodichloromethane	24.1	0.50	ug/l	25.0	ND	96	70-130			
Bromoform	25.7	1.0	ug/l	25.0	ND	103	62-126			
Bromomethane	27.6	1.0	ug/l	25.0	ND	110	55-136			
2-Butanone (MEK)	18.5	2.5	ug/l	25.0	ND	74	22-150			
n-Butylbenzene	26.8	0.50	ug/l	25.0	ND	107	70-130			
sec-Butylbenzene	25.6	0.50	ug/l	25.0	ND	103	70-130			
tert-Butylbenzene	26.4	0.50	ug/l	25.0	ND	106	70-130			
Carbon disulfide	29.2	0.50	ug/l	25.0	ND	117	56-132			
Carbon tetrachloride	28.3	0.50	ug/l	25.0	ND	113	76-131			
Chlorobenzene	25.9	0.50	ug/l	25.0	ND	103	70-130			
Chloroethane	28.6	1.0	ug/l	25.0	ND	114	67-134			
Chloroform	25.0	0.50	ug/l	25.0	ND	100	70-130			
Chloromethane	23.9	1.0	ug/l	25.0	ND	96	50-135			
2-Chlorotoluene	24.8	0.50	ug/l	25.0	ND	99	70-130			
4-Chlorotoluene	25.2	0.50	ug/l	25.0	ND	101	70-130			
Dibromochloromethane	24.8	0.50	ug/l	25.0	ND	99	70-130			
1,2-Dibromo-3-chloropropane	22.5	2.5	ug/l	25.0	ND	90	60-135			
1,2-Dibromoethane (EDB)	23.6	0.50	ug/l	25.0	ND	95	70-130			
Dibromomethane	23.1	0.50	ug/l	25.0	ND	92	70-130			
1,2-Dichlorobenzene	25.1	0.50	ug/l	25.0	ND	100	70-130			
1,3-Dichlorobenzene	25.0	0.50	ug/l	25.0	ND	100	70-130			
1,4-Dichlorobenzene	25.5	0.50	ug/l	25.0	ND	102	70-130			
Dichlorodifluoromethane	27.0	0.50	ug/l	25.0	ND	108	36-150			
1,1-Dichloroethane	26.6	0.50	ug/l	25.0	0.720	103	70-130			
1,2-Dichloroethane	23.8	0.50	ug/l	25.0	ND	95	68-143			
1,1-Dichloroethene	34.1	0.50	ug/l	25.0	6.17	112	70-130			
cis-1,2-Dichloroethene	24.3	0.50	ug/l	25.0	ND	97	70-130			
trans-1,2-Dichloroethene	26.3	0.50	ug/l	25.0	ND	105	70-130			
1,2-Dichloropropane	24.4	0.50	ug/l	25.0	ND	98	70-130			
1,3-Dichloropropane	22.5	0.50	ug/l	25.0	ND	90	70-130			
2,2-Dichloropropane	29.1	1.0	ug/l	25.0	ND	116	66-130			

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VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD	RPD Limit	Data Qualifiers
Batch: 1110358 Extracted: 09/12/11										
Matrix Spike Analyzed: 09/12/2011 (1110358-MS1)					Source: PUI0188-01					
1,1-Dichloropropene	26.0	0.50	ug/l	25.0	ND	104	70-130			
cis-1,3-Dichloropropene	25.6	0.50	ug/l	25.0	ND	102	70-130			
trans-1,3-Dichloropropene	24.7	0.50	ug/l	25.0	ND	99	71-132			
Ethylbenzene	25.3	0.50	ug/l	25.0	ND	101	70-130			
Hexachlorobutadiene	27.7	1.0	ug/l	25.0	ND	111	66-129			
2-Hexanone	17.8	2.5	ug/l	25.0	ND	71	18-150			
Iodomethane	31.2	2.5	ug/l	25.0	ND	125	47-141			
Isopropylbenzene	27.2	0.50	ug/l	25.0	ND	109	78-137			
p-Isopropyltoluene	26.7	0.50	ug/l	25.0	ND	107	70-130			
Methylene Chloride	23.6	1.0	ug/l	25.0	ND	95	74-132			
4-Methyl-2-pentanone (MIBK)	20.3	2.5	ug/l	25.0	ND	81	56-145			
Methyl-tert-butyl Ether (MTBE)	22.1	0.50	ug/l	25.0	ND	88	67-138			
Naphthalene	26.1	2.5	ug/l	25.0	ND	104	54-135			
n-Propylbenzene	26.8	0.50	ug/l	25.0	ND	107	70-130			
Styrene	21.2	0.50	ug/l	25.0	ND	85	51-123			
1,1,1,2-Tetrachloroethane	25.2	0.50	ug/l	25.0	ND	101	70-130			
1,1,2,2-Tetrachloroethane	22.9	0.50	ug/l	25.0	ND	92	69-133			
Tetrachloroethene	26.9	0.50	ug/l	25.0	ND	108	70-130			
Toluene	25.7	0.50	ug/l	25.0	ND	103	70-130			
1,2,3-Trichlorobenzene	26.5	1.0	ug/l	25.0	ND	106	70-130			
1,2,4-Trichlorobenzene	26.7	1.0	ug/l	25.0	ND	107	66-126			
1,1,1-Trichloroethane	27.1	0.50	ug/l	25.0	ND	108	76-132			
1,1,2-Trichloroethane	23.4	0.50	ug/l	25.0	ND	93	70-130			
Trichloroethene	25.6	0.50	ug/l	25.0	ND	103	70-130			
Trichlorofluoromethane	32.1	0.50	ug/l	25.0	ND	129	74-150			
1,2,3-Trichloropropane	23.3	1.0	ug/l	25.0	ND	93	70-130			
1,2,4-Trimethylbenzene	23.3	0.50	ug/l	25.0	ND	93	70-130			
1,3,5-Trimethylbenzene	25.4	0.50	ug/l	25.0	ND	102	61-138			
Vinyl Acetate	26.5	1.0	ug/l	25.0	ND	106	50-150			
Vinyl chloride	28.4	0.50	ug/l	25.0	ND	114	58-139			
Xylenes, Total	46.9	1.5	ug/l	50.0	ND	94	70-130			
Surrogate: Dibromofluoromethane	24.0		ug/l	25.0		96	70-130			
Surrogate: Toluene-d8	25.1		ug/l	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	24.0		ug/l	25.0		96	70-130			

TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: 03994018
Report Number: PUI0188

Sampled: 09/06/11
Received: 09/06/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 1110358 Extracted: 09/12/11										
Matrix Spike Dup Analyzed: 09/12/2011 (1110358-MSD1)					Source: PUI0188-01					
Acetone	12.1	10	ug/l	25.0	ND	49	10-150	3	35	
Benzene	24.3	0.50	ug/l	25.0	0.160	96	70-130	6	20	
Bromobenzene	24.0	0.50	ug/l	25.0	ND	96	70-130	5	20	
Bromochloromethane	24.8	0.50	ug/l	25.0	ND	99	70-130	0.1	20	
Bromodichloromethane	22.6	0.50	ug/l	25.0	ND	91	70-130	6	20	
Bromoform	23.0	1.0	ug/l	25.0	ND	92	62-126	11	20	
Bromomethane	25.0	1.0	ug/l	25.0	ND	100	55-136	10	24	
2-Butanone (MEK)	19.3	2.5	ug/l	25.0	ND	77	22-150	4	31	
n-Butylbenzene	24.9	0.50	ug/l	25.0	ND	100	70-130	7	20	
sec-Butylbenzene	24.1	0.50	ug/l	25.0	ND	96	70-130	6	20	
tert-Butylbenzene	24.7	0.50	ug/l	25.0	ND	99	70-130	7	20	
Carbon disulfide	15.4	0.50	ug/l	25.0	ND	62	56-132	62	20	R2
Carbon tetrachloride	25.8	0.50	ug/l	25.0	ND	103	76-131	9	20	
Chlorobenzene	24.2	0.50	ug/l	25.0	ND	97	70-130	7	20	
Chloroethane	26.1	1.0	ug/l	25.0	ND	104	67-134	9	20	
Chloroform	24.0	0.50	ug/l	25.0	ND	96	70-130	4	20	
Chloromethane	22.3	1.0	ug/l	25.0	ND	89	50-135	7	20	
2-Chlorotoluene	23.2	0.50	ug/l	25.0	ND	93	70-130	7	20	
4-Chlorotoluene	23.7	0.50	ug/l	25.0	ND	95	70-130	6	20	
Dibromochloromethane	23.2	0.50	ug/l	25.0	ND	93	70-130	7	20	
1,2-Dibromo-3-chloropropane	23.3	2.5	ug/l	25.0	ND	93	60-135	3	29	
1,2-Dibromoethane (EDB)	23.4	0.50	ug/l	25.0	ND	94	70-130	0.9	20	
Dibromomethane	22.5	0.50	ug/l	25.0	ND	90	70-130	2	20	
1,2-Dichlorobenzene	24.0	0.50	ug/l	25.0	ND	96	70-130	4	20	
1,3-Dichlorobenzene	23.6	0.50	ug/l	25.0	ND	95	70-130	6	20	
1,4-Dichlorobenzene	24.2	0.50	ug/l	25.0	ND	97	70-130	5	20	
Dichlorodifluoromethane	24.3	0.50	ug/l	25.0	ND	97	36-150	10	22	
1,1-Dichloroethane	25.2	0.50	ug/l	25.0	0.720	98	70-130	5	20	
1,2-Dichloroethane	23.7	0.50	ug/l	25.0	ND	95	68-143	0.2	20	
1,1-Dichloroethene	31.2	0.50	ug/l	25.0	6.17	100	70-130	9	20	
cis-1,2-Dichloroethene	22.9	0.50	ug/l	25.0	ND	92	70-130	6	20	
trans-1,2-Dichloroethene	24.9	0.50	ug/l	25.0	ND	100	70-130	6	20	
1,2-Dichloropropane	23.6	0.50	ug/l	25.0	ND	94	70-130	3	20	
1,3-Dichloropropane	22.3	0.50	ug/l	25.0	ND	89	70-130	0.8	20	
2,2-Dichloropropane	26.9	1.0	ug/l	25.0	ND	108	66-130	8	20	

TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: 03994018
Report Number: PUI0188

Sampled: 09/06/11
Received: 09/06/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD	RPD Limit	Data Qualifiers
Batch: 1110358 Extracted: 09/12/11										
Matrix Spike Dup Analyzed: 09/12/2011 (1110358-MSD1)					Source: PUI0188-01					
1,1-Dichloropropene	24.4	0.50	ug/l	25.0	ND	98	70-130	6	20	
cis-1,3-Dichloropropene	23.4	0.50	ug/l	25.0	ND	94	70-130	9	20	
trans-1,3-Dichloropropene	23.4	0.50	ug/l	25.0	ND	94	71-132	5	20	
Ethylbenzene	23.7	0.50	ug/l	25.0	ND	95	70-130	6	20	
Hexachlorobutadiene	25.8	1.0	ug/l	25.0	ND	103	66-129	7	21	
2-Hexanone	18.2	2.5	ug/l	25.0	ND	73	18-150	2	25	
Iodomethane	29.0	2.5	ug/l	25.0	ND	116	47-141	7	29	
Isopropylbenzene	25.4	0.50	ug/l	25.0	ND	101	78-137	7	20	
p-Isopropyltoluene	24.8	0.50	ug/l	25.0	ND	99	70-130	7	20	
Methylene Chloride	22.9	1.0	ug/l	25.0	ND	91	74-132	3	20	
4-Methyl-2-pentanone (MIBK)	20.9	2.5	ug/l	25.0	ND	84	56-145	3	26	
Methyl-tert-butyl Ether (MTBE)	22.5	0.50	ug/l	25.0	ND	90	67-138	2	21	
Naphthalene	25.8	2.5	ug/l	25.0	ND	103	54-135	1	33	
n-Propylbenzene	24.8	0.50	ug/l	25.0	ND	99	70-130	7	20	
Styrene	17.8	0.50	ug/l	25.0	ND	71	51-123	18	21	
1,1,1,2-Tetrachloroethane	24.0	0.50	ug/l	25.0	ND	96	70-130	5	20	
1,1,2,2-Tetrachloroethane	23.1	0.50	ug/l	25.0	ND	93	69-133	1	20	
Tetrachloroethene	25.0	0.50	ug/l	25.0	ND	100	70-130	7	20	
Toluene	24.4	0.50	ug/l	25.0	ND	97	70-130	5	20	
1,2,3-Trichlorobenzene	25.4	1.0	ug/l	25.0	ND	101	70-130	4	20	
1,2,4-Trichlorobenzene	25.4	1.0	ug/l	25.0	ND	101	66-126	5	20	
1,1,1-Trichloroethane	25.6	0.50	ug/l	25.0	ND	103	76-132	6	20	
1,1,2-Trichloroethane	23.7	0.50	ug/l	25.0	ND	95	70-130	1	20	
Trichloroethene	24.0	0.50	ug/l	25.0	ND	96	70-130	6	20	
Trichlorofluoromethane	29.3	0.50	ug/l	25.0	ND	117	74-150	9	20	
1,2,3-Trichloropropane	23.3	1.0	ug/l	25.0	ND	93	70-130	0.3	20	
1,2,4-Trimethylbenzene	20.4	0.50	ug/l	25.0	ND	82	70-130	13	20	
1,3,5-Trimethylbenzene	23.7	0.50	ug/l	25.0	ND	95	61-138	7	33	
Vinyl Acetate	26.1	1.0	ug/l	25.0	ND	104	50-150	1	23	
Vinyl chloride	26.0	0.50	ug/l	25.0	ND	104	58-139	9	21	
Xylenes, Total	43.7	1.5	ug/l	50.0	ND	87	70-130	7	20	
Surrogate: Dibromofluoromethane	24.6		ug/l	25.0		98	70-130			
Surrogate: Toluene-d8	25.0		ug/l	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	23.9		ug/l	25.0		95	70-130			

TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: 03994018
 Report Number: PUI0188

Sampled: 09/06/11
 Received: 09/06/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 1110430 Extracted: 09/13/11										
Blank Analyzed: 09/13/2011 (1110430-BLK1)										
Perchlorate	ND	2.0	ug/l							
LCS Analyzed: 09/13/2011 (1110430-BS1)										
Perchlorate	24.1	2.0	ug/l	25.0		96	85-115			
LCS Dup Analyzed: 09/13/2011 (1110430-BSD1)										
Perchlorate	24.6	2.0	ug/l	25.0		98	85-115	2	15	
Duplicate Analyzed: 09/13/2011 (1110430-DUP1)										
Perchlorate	10600	2000	ug/l		Source: PUI0362-01RE1 10800			2	15	
Matrix Spike Analyzed: 09/13/2011 (1110430-MS1)										
Perchlorate	27.0	2.0	ug/l	25.0	Source: PUI0188-01RE1 4.06	92	80-120			
Matrix Spike Dup Analyzed: 09/13/2011 (1110430-MSD1)										
Perchlorate	26.1	2.0	ug/l	25.0	Source: PUI0188-01RE1 4.06	88	80-120	3	15	

TestAmerica Phoenix

Tina Paulauskas
 Project Manager

ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: 03994018
 Report Number: PUI0188

Sampled: 09/06/11
 Received: 09/06/11

METHOD BLANK/QC DATA

1,4-DIOXANE BY GCMS - SINGLE ION MONITORING (SIM)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I1151 Extracted: 09/12/11										
Blank Analyzed: 09/12/2011 (11I1151-BLK1)										
1,4-Dioxane	ND	2.0	ug/l							
Surrogate: Dibromofluoromethane	1.01		ug/l	1.00		101	80-120			
LCS Analyzed: 09/12/2011 (11I1151-BS1)										
1,4-Dioxane	11.2	2.0	ug/l	10.0		112	70-125			
Surrogate: Dibromofluoromethane	1.06		ug/l	1.00		106	80-120			
Matrix Spike Analyzed: 09/12/2011 (11I1151-MS1)										
					Source: PUI0188-01					
1,4-Dioxane	13.9	2.0	ug/l	10.0	3.03	109	70-130			
Surrogate: Dibromofluoromethane	1.09		ug/l	1.00		109	80-120			
Matrix Spike Dup Analyzed: 09/12/2011 (11I1151-MSD1)										
					Source: PUI0188-01					
1,4-Dioxane	13.3	2.0	ug/l	10.0	3.03	103	70-130	4	30	
Surrogate: Dibromofluoromethane	1.07		ug/l	1.00		107	80-120			

TestAmerica Phoenix

Tina Paulauskas
 Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: 03994018

Report Number: PUI0188

Sampled: 09/06/11

Received: 09/06/11

DATA QUALIFIERS AND DEFINITIONS

- R2** The RPD exceeded the acceptance limit.
- R6** LFB/LFBD RPD exceeded the method acceptance limit. Recovery met acceptance criteria.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica Phoenix

Tina Paulauskas
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced,
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PUI0188 <Page 20 of 21>

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: 03994018

Report Number: PUI0188

Sampled: 09/06/11

Received: 09/06/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 314.0	Water		X
EPA 8260B	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

Subcontracted Laboratories

TestAmerica - Irvine, CA NELAC Cert #01108CA, California Cert #1197, Arizona Cert #AZ0671, Nevada Cert #CA72-2002-63, ORELAP Cert #Text1

17461 Derian Ave., Suite 100 - Irvine, CA 92614

Method Performed: EPA 8260B-SIM

Samples: PUI0188-01

TestAmerica Phoenix

Tina Paulauskas
Project Manager

Client Name/Address: ARCADIS 4646 E. VAN BUREN #400 PHX, AZ 85008		Project/PO Number: 03994018		Analysis Required												
Project Manager: GLEG GUMMOND		Phone Number: 602-241-1770		VOC 8260 1,4-DIOXANE 8260 Perchlorate 314												
Sampler: D. DAVIS		Fax Number:														
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	Special Instructions									
PO-1	GW	40ml VOA 500ml PCB	7	9-16-11		HCL/mars α	PUT 0188 - 01									
TRIP	W	40ml VOA	1	↓		α	- 02									
Relinquished By: <i>[Signature]</i>		Date/Time: 9-16-11/1049		Received By:		Date/Time:		Turnaround Time: (Check)								
Relinquished By:		Date/Time:		Received By:		Date/Time:		same day _____ 72 hours _____ 24 hours _____ 5 days _____ 48 hours _____ normal <u>4</u>								
Relinquished By:		Date/Time:		Received in Lab By: <i>[Signature]</i>		Date/Time: 9/16/11 1049		Sample Integrity: (Check) intact <u>x</u> on ice <u>x</u> 3-200								

Note: By relinquishing samples to TestAmerica, 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.

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO-3994018

Sampled: 07/27/11
Received: 07/27/11
Issued: 08/04/11 16:22

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PUG1719-01	MW9	Water
SAMPLE RECEIPT:	Samples were received intact, at 3°C, on ice and with chain of custody documentation.	
HOLDING TIMES:	All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.	
PRESERVATION:	Samples requiring preservation were verified prior to sample analysis.	
QA/QC CRITERIA:	All analyses met method criteria, except as noted in the report with data qualifiers.	
COMMENTS:	No significant observations were made.	
SUBCONTRACTED:	Refer to the last page for specific subcontract laboratory information included in this report.	

Reviewed By:



TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1719

Sampled: 07/27/11

Received: 07/27/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUG1719-01 (MW9 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 332.0	11H0224	0.20	2.7	2	8/2/2011	8/2/2011	

TestAmerica Phoenix

Tina Paulauskas
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

PUG1719 <Page 2 of 5>

ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO-3994018
 Report Number: PUG1719

Sampled: 07/27/11
 Received: 07/27/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11H0224 Extracted: 08/02/11										
Blank Analyzed: 08/02/2011 (11H0224-BLK1)										
Perchlorate	ND	0.10	ug/l							
LCS Analyzed: 08/02/2011 (11H0224-BS1)										
Perchlorate	5.06	0.10	ug/l	5.00		101	80-120			
Matrix Spike Analyzed: 08/02/2011 (11H0224-MS1)										
Perchlorate	11.8	0.50	ug/l	5.00	8.58	64	80-120			M2
Matrix Spike Dup Analyzed: 08/02/2011 (11H0224-MSD1)										
Perchlorate	11.9	0.50	ug/l	5.00	8.58	66	80-120	0.9	20	M2

TestAmerica Phoenix

Tina Paulauskas
 Project Manager

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ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1719

Sampled: 07/27/11

Received: 07/27/11

DATA QUALIFIERS AND DEFINITIONS

- M2** Matrix spike recovery was low; the associated blank spike recovery was acceptable.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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PUG1719 <Page 4 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1719

Sampled: 07/27/11

Received: 07/27/11

Certification Summary

Subcontracted Laboratories

TestAmerica - Irvine, CA *NELAC Cert #01108CA, California Cert #1197, Arizona Cert #AZ0671, Nevada Cert #CA72-2002-63, ORELAP Cert #Text1*

17461 Derian Ave., Suite 100 - Irvine, CA 92614

Method Performed: EPA 332.0

Samples: PUG1719-01

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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PUG1719 <Page 5 of 5>

ID#: 16986

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Lab Work Order # *CM #2711*
PUG-K-1719

Send Results to:	Contact & Company Name: <i>ARCADIS</i>		Telephone: <i>6024380883</i>		
	Address: <i>4646 E VANBORN</i>		Fax: <i>6024380102</i>		
	City: <i>PAX</i>	State: <i>AZ</i>	Zip: <i>85008</i>	E-mail Address:	
	Project Name/Location (City, State): <i>VACO</i>		Project #: <i>03994018</i>		
Sampler's Printed Name: <i>Mark Swko</i>		Sampler's Signature: <i>[Signature]</i>			
Sample ID	Collection		Type (✓)		Matrix
	Date	Time	Comp	Grab	

Preservative	<i>E</i>						
Filtered (✓)							
# of Containers	<i>1</i>						
Container information	<i>3</i>						
PARAMETER ANALYSIS & METHOD							
<i>332 APPROPRIATE</i>							

Keys

Preservation Key:	Container Information Key:	
A. H ₂ SO ₄	1. 40 ml Vial	
B. HCL	2. 1 L Amber	
C. HNO ₃	3. 250 ml Plastic	
D. NaOH	4. 500 ml Plastic	
E. None	5. Encore	
F. Other:	6. 2 oz. Glass	
G. Other:	7. 4 oz. Glass	
H. Other:	8. 8 oz. Glass	
	9. Other:	
	10. Other:	
Matrix Key:		
SO - Soil	SE - Sediment	NL - NAPL/Oil
W - Water	SL - Sludge	SW - Sample Wipe
T - Tissue	A - Air	Other:

Sample ID	Collection		Type (✓)		Matrix	REMARKS	
	Date	Time	Comp	Grab			
<i>MW9</i>	<i>7-27</i>	<i>8:25</i>		<i>Y</i>	<i>W</i>	<i>X</i>	<i>OL</i>

Special Instructions/Comments: Special QA/QC Instructions(✓):

Laboratory Information and Receipt		Relinquished By		Received By		Relinquished By		Laboratory Received By	
Lab Name: <i>TESTAMERICA</i>	Cooler Custody Seal (✓) <input type="checkbox"/> Intact <input type="checkbox"/> Not Intact	Printed Name: <i>Mark Swko</i>	Signature: <i>[Signature]</i>	Printed Name:	Signature:	Printed Name:	Signature:	Printed Name: <i>Tom Johnson</i>	Signature: <i>[Signature]</i>
<input checked="" type="checkbox"/> Cooler packed with ice (✓)	Sample Receipt: <i>2.6</i>	Firm: <i>ARCADIS</i>	Date/Time: <i>7-27-11 16:34</i>	Firm/Courier:	Date/Time:	Firm/Courier: <i>TA</i>	Date/Time: <i>7/27/11 16:34</i>	Firm:	Date/Time:
Specify Turnaround Requirements:	Condition/Cooler Temp:								
Shipping Tracking #:									

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO 03994018.0000

Sampled: 07/28/11
Received: 07/28/11
Issued: 08/08/11 09:18

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PUG1811-01	MW7	Water
PUG1811-02	MW8	Water
PUG1811-03	MW10	Water
PUG1811-04	MW3	Water

SAMPLE RECEIPT: Samples were received intact, at 3°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Reviewed By:



TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO 03994018.0000

Report Number: PUG1811

Sampled: 07/28/11

Received: 07/28/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUG1811-01 (MW7 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 332.0	11H0582	0.10	0.60	1	8/4/2011	8/4/2011	
Sample ID: PUG1811-02 (MW8 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 332.0	11H0582	0.10	1.0	1	8/4/2011	8/4/2011	M2
Sample ID: PUG1811-03 (MW10 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 332.0	11H0582	0.10	0.92	1	8/4/2011	8/4/2011	
Sample ID: PUG1811-04 (MW3 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 332.0	11H0582	0.10	0.59	1	8/4/2011	8/4/2011	

TestAmerica Phoenix

Tina Paulauskas
 Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

PUG1811 <Page 2 of 5>

ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO 03994018.0000

Report Number: PUG1811

Sampled: 07/28/11

Received: 07/28/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11H0582 Extracted: 08/04/11										
Blank Analyzed: 08/04/2011 (11H0582-BLK1)										
Perchlorate	ND	0.10	ug/l							
LCS Analyzed: 08/04/2011 (11H0582-BS1)										
Perchlorate	5.22	0.10	ug/l	5.00		104	80-120			
Matrix Spike Analyzed: 08/04/2011 (11H0582-MS1)										
Perchlorate	5.21	0.10	ug/l	5.00	1.01	84	80-120			
Matrix Spike Dup Analyzed: 08/04/2011 (11H0582-MSD1)										
Perchlorate	4.90	0.10	ug/l	5.00	1.01	78	80-120	6	20	M2

TestAmerica Phoenix

Tina Paulauskas
 Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

PUG1811 <Page 3 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO 03994018.0000

Report Number: PUG1811

Sampled: 07/28/11

Received: 07/28/11

DATA QUALIFIERS AND DEFINITIONS

- M2** Matrix spike recovery was low; the associated blank spike recovery was acceptable.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica Phoenix

Tina Paulauskas
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced,
except in full, without written permission from TestAmerica.*

PUG1811 <Page 4 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO 03994018.0000

Report Number: PUG1811

Sampled: 07/28/11

Received: 07/28/11

Certification Summary

Subcontracted Laboratories

TestAmerica - Irvine, CA *NELAC Cert #01108CA, California Cert #1197, Arizona Cert #AZ0671, Nevada Cert #CA72-2002-63, ORELAP Cert #Text1*

17461 Derian Ave., Suite 100 - Irvine, CA 92614

Method Performed: EPA 332.0

Samples: PUG1811-01, PUG1811-02, PUG1811-03, PUG1811-04

TestAmerica Phoenix

Tina Paulauskas
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

PUG1811 <Page 5 of 5>

Send Results to:	Contact & Company Name: ARCADIS	Telephone: 602 438 0883	Preservative: E								
	Address: 4646 E VANBUREN	Fax: 602 438 0102	Filtered (✓):								
	City, State, Zip: PAW AZ 85008	E-mail Address:	# of Containers: 1								
	Project Name/Location (City, State): UPCU	Project #: 039940180000	Container Information: 3								
PARAMETER ANALYSIS & METHOD											
332 PERCHLORATE											
Sampler's Printed Name: Mark Savko	Sampler's Signature: <i>[Signature]</i>										
Sample ID	Collection		Type (✓)		Matrix						
	Date	Time	Comp	Grab							
MW7	7-28	8:30		X	W	X					
MW8	7-28	10:00		X	W	X					
MW10	7-28	10:44		X	W	X					
MW3	7-28	11:40		X	W	X					

- Keys**
- Preservation Key:**
A. H₂SO₄
B. HCl
C. HNO₃
D. NaOH
E. None
F. Other: _____
G. Other: _____
H. Other: _____
- Container Information Key:**
1. 40 ml Vial
2. 1 L Amber
3. 250 ml Plastic
4. 500 ml Plastic
5. Encore
6. 2 oz. Glass
7. 4 oz. Glass
8. 8 oz. Glass
9. Other: _____
10. Other: _____
- Matrix Key:**
SO - Soil SE - Sediment NL - NAPL/Oil
W - Water SL - Sludge SW - Sample Wipe
T - Tissue A - Air Other: _____

REMARKS

PUG 1811-01
- 02
- 03
- 04

Special Instructions/Comments: Special QA/QC Instructions (✓):

Laboratory Information and Receipt		Relinquished By		Received By		Relinquished By		Laboratory Received By	
Lab Name: TEST AMERICA	Cooler Custody Seal (✓) <input type="checkbox"/> Intact <input type="checkbox"/> Not Intact	Printed Name: Mark Savko	Signature: <i>[Signature]</i>	Printed Name:	Signature:	Printed Name:	Signature:	Printed Name: Robert Floyd	Signature: <i>[Signature]</i>
<input checked="" type="checkbox"/> Cooler packed with ice (✓)	Sample Receipt: Condition/Cooler Temp: 26	Firm: ARCADIS	Date/Time: 7-28-11 1332	Firm/Counter:	Date/Time:	Firm/Counter:	Date/Time:	Firm: TA-PHX	Date/Time: 7/28/11 1332

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: 0399440180000

Sampled: 07/29/11
Received: 07/29/11
Issued: 08/09/11 09:39

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PUG1900-01	MW4	Water
PUG1900-02	MW15	Water
PUG1900-03	MW11	Water
PUG1900-04	MW12	Water

SAMPLE RECEIPT: Samples were received intact, at 4°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Reviewed By:



TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: 0399440180000

Report Number: PUG1900

Sampled: 07/29/11

Received: 07/29/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUG1900-01 (MW4 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 332.0	11H0583	0.10	0.61	1	8/4/2011	8/4/2011	
Sample ID: PUG1900-02 (MW15 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 332.0	11H0583	0.10	0.77	1	8/4/2011	8/4/2011	
Sample ID: PUG1900-03 (MW11 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 332.0	11H0583	0.10	2.0	1	8/4/2011	8/4/2011	
Sample ID: PUG1900-04 (MW12 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 332.0	11H0583	0.10	0.71	1	8/4/2011	8/4/2011	

TestAmerica Phoenix

Tina Paulauskas
 Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: 0399440180000
 Report Number: PUG1900

Sampled: 07/29/11
 Received: 07/29/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11H0583 Extracted: 08/04/11										
Blank Analyzed: 08/04/2011 (11H0583-BLK1)										
Perchlorate	ND	0.10	ug/l							
LCS Analyzed: 08/04/2011 (11H0583-BS1)										
Perchlorate	4.77	0.10	ug/l	5.00		95	80-120			
Matrix Spike Analyzed: 08/04/2011 (11H0583-MS1)										
Perchlorate	125	2.0	ug/l	10.0	Source: IUG2764-02 122	23	80-120			M3
Matrix Spike Dup Analyzed: 08/04/2011 (11H0583-MSD1)										
Perchlorate	116	2.0	ug/l	10.0	Source: IUG2764-02 122	-60	80-120	7	20	M3

TestAmerica Phoenix

Tina Paulauskas
 Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: 0399440180000

Report Number: PUG1900

Sampled: 07/29/11

Received: 07/29/11

DATA QUALIFIERS AND DEFINITIONS

- M3** The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The associated blank spike recovery was acceptable.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica Phoenix

Tina Paulauskas
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced,
except in full, without written permission from TestAmerica.*

PUG1900 <Page 4 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: 0399440180000

Report Number: PUG1900

Sampled: 07/29/11

Received: 07/29/11

Certification Summary

Subcontracted Laboratories

TestAmerica - Irvine, CA *NELAC Cert #01108CA, California Cert #1197, Arizona Cert #AZ0671, Nevada Cert #CA72-2002-63, ORELAP Cert #Text1*

17461 Derian Ave., Suite 100 - Irvine, CA 92614

Method Performed: EPA 332.0

Samples: PUG1900-01, PUG1900-02, PUG1900-03, PUG1900-04

TestAmerica Phoenix

Tina Paulauskas
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

PUG1900 <Page 5 of 5>

Send Results to:	Contact & Company Name: <i>ARCADIS</i>	Telephone: <i>602 438 0883</i>	Preservative <i>E</i>							Keys Preservation Key: A. H ₂ SO ₄ B. HCL C. HNO ₃ D. NaOH E. None F. Other: _____ G. Other: _____ H. Other: _____ Matrix Key: SO - Soil SE - Sediment NL - NAPL/Oil W - Water SL - Sludge SW - Sample Wipe T - Tissue A - Air Other: _____				
	Address: <i>4646 E VANBURDEN</i>	Fax: <i>602 438 0102</i>	Filtered (✓)											
	City <i>PAX</i>	State <i>AZ</i>	Zip <i>85008</i>	# of Containers <i>1</i>										
	E-mail Address:		PARAMETER ANALYSIS & METHOD											
Project Name/Location (City, State):	Project #: <i>039940190000</i>		<i>532 PERCHLORATE</i>											
Sampler's Printed Name: <i>Mark Sankov</i>	Sampler's Signature: <i>[Signature]</i>													
Sample ID	Collection		Type (✓)		Matrix					REMARKS				
	Date	Time	Comp	Grab										
MW4	7-29	5:36	X	W	X									P061900-01
MW15	7-29	7:49	X	W	X									-02
MW11	7-29	9:33	X	W	X									-03
MW12	7-29	13:15	X	W	X					-04				
Special Instructions/Comments:										<input type="checkbox"/> Special QA/QC Instructions(✓):				
Laboratory Information and Receipt			Relinquished By		Received By		Relinquished By		Laboratory Received By					
Lab Name: <i>TEST AMERICA</i>	Cooler Custody Seal (✓) <input type="checkbox"/> Intact <input type="checkbox"/> Not Intact		Printed Name: <i>Mark Sankov</i>	Signature: <i>[Signature]</i>	Printed Name:	Signature:	Printed Name:	Signature:	Printed Name: <i>Pavel</i>	Signature: <i>[Signature]</i>				
<input checked="" type="checkbox"/> Cooler packed with ice (✓)	Sample Receipt:		Firm: <i>ARCADIS</i>	Date/Time: <i>7-29-11 1522</i>	Firm/Courier:	Date/Time:	Firm/Courier:	Date/Time:	Firm: <i>TA</i>	Date/Time: <i>7/29/11 1522</i>				
Specify Turnaround Requirements:	Condition/Cooler Temp: <i>3-8</i>													

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO 039940180000

Sampled: 08/01/11
Received: 08/01/11
Issued: 08/10/11 11:20

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID

PUH0082-01

CLIENT ID

MW 17

MATRIX

Water

SAMPLE RECEIPT: Samples were received intact, at 3°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Reviewed By:



TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO 039940180000

Report Number: PUH0082

Sampled: 08/01/11

Received: 08/01/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUH0082-01 (MW 17 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 332.0	11H0776	0.20	0.66	2	8/5/2011	8/5/2011	

TestAmerica Phoenix

Tina Paulauskas
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

PUH0082 <Page 2 of 5>

ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO 039940180000

Report Number: PUH0082

Sampled: 08/01/11

Received: 08/01/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11H0776 Extracted: 08/05/11										
Blank Analyzed: 08/05/2011 (11H0776-BLK1)										
Perchlorate	ND	0.10	ug/l							
LCS Analyzed: 08/05/2011 (11H0776-BS1)										
Perchlorate	4.42	0.10	ug/l	5.00		88	80-120			
Matrix Spike Analyzed: 08/05/2011 (11H0776-MS1)										
Perchlorate	4.90	0.20	ug/l	5.00	0.490	88	80-120			
Matrix Spike Dup Analyzed: 08/05/2011 (11H0776-MSD1)										
Perchlorate	5.71	0.20	ug/l	5.00	0.490	104	80-120	15	20	

TestAmerica Phoenix

Tina Paulauskas
 Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO 039940180000

Report Number: PUH0082

Sampled: 08/01/11

Received: 08/01/11

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD Relative Percent Difference

TestAmerica Phoenix

Tina Paulauskas
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced,
except in full, without written permission from TestAmerica.*

PUH0082 <Page 4 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO 039940180000

Report Number: PUH0082

Sampled: 08/01/11

Received: 08/01/11

Certification Summary

Subcontracted Laboratories

TestAmerica - Irvine, CA *NELAC Cert #01108CA, California Cert #1197, Arizona Cert #AZ0671, Nevada Cert #CA72-2002-63, ORELAP Cert #Text1*

17461 Derian Ave., Suite 100 - Irvine, CA 92614

Method Performed: EPA 332.0

Samples: PUH0082-01

TestAmerica Phoenix

Tina Paulauskas
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced,
except in full, without written permission from TestAmerica.*

PUH0082 <Page 5 of 5>

ID#: 17027

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Lab Work Order #

Send Results to:	Contact & Company Name: <i>ARCADIS</i>	Telephone: <i>602 428 0883</i>	Preservative: <i>E</i>								<p>Keys</p> <p>Preservation Key: A. H₂SO₄ B. HCL C. HNO₃ D. NaOH E. None F. Other: _____ G. Other: _____ H. Other: _____</p> <p>Container Information Key: 1. 40 ml Vial 2. 1 L Amber 3. 250 ml Plastic 4. 500 ml Plastic 5. Encore 6. 2 oz. Glass 7. 4 oz. Glass 8. 8 oz. Glass 9. Other: _____ 10. Other: _____</p> <p>Matrix Key: SO - Soil W - Water T - Tissue SE - Sediment SL - Sludge A - Air NL - NAPL/Oil SW - Sample Wipe Other: _____</p>
	Address: <i>4646E VANBUREN</i>	Fax: <i>602 438 0102</i>	Filtered (✓): <input type="checkbox"/>								
	City: <i>PHX</i>	State: <i>AZ</i>	Zip: <i>85008</i>	# of Containers: <i>1</i>							
E-mail Address:	PARAMETER ANALYSIS & METHOD										
Project Name/Location (City, State): <i>DPCO</i>	Project #: <i>039940180000</i>	<i>332</i>									
Sampler's Printed Name: <i>Mark Sawko</i>	Sampler's Signature: <i>[Signature]</i>										
Sample ID	Collection										Type (✓)
	Date Time	Comp Grab									
<i>MW 17</i>	<i>8-1 7:13</i>	<i>X</i> <i>W</i>	<i>X</i>								
REMARKS											
<i>PUH0082-01</i>											

Special Instructions/Comments: Special QA/QC Instructions (✓):

Laboratory Information and Receipt		Relinquished By		Received By		Relinquished By		Laboratory Received By	
Lab Name: <i>TEST AMERICA</i>	Cooler Custody Seal (✓)	Printed Name: <i>Mark Sawko</i>	Signature: <i>[Signature]</i>	Printed Name: <i>[Blank]</i>	Signature: <i>[Blank]</i>	Printed Name: <i>[Blank]</i>	Signature: <i>[Blank]</i>	Printed Name: <i>Peter Floyd</i>	Signature: <i>[Signature]</i>
<input checked="" type="checkbox"/> Cooler packed with ice (✓)	<input type="checkbox"/> Intact <input type="checkbox"/> Not Intact	Firm: <i>ARCADIS</i>	Date/Time: <i>8-1-11 1655</i>	Firm/Courier: <i>[Blank]</i>	Date/Time: <i>[Blank]</i>	Firm/Courier: <i>[Blank]</i>	Date/Time: <i>[Blank]</i>	Firm: <i>[Blank]</i>	Date/Time: <i>8-1-11 1655</i>
Specify Turnaround Requirements:	Sample Receipt:	Condition/Cooler Temp: <i>2-6°C</i>							
Shipping Tracking #:									

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO/3994003

Sampled: 10/25/11-10/26/11
Received: 10/26/11
Issued: 11/04/11 11:43

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PUJ1621-01	PW-1	Water
PUJ1621-02	MW-13	Water
PUJ1621-03	MW-5	Water

SAMPLE RECEIPT: Samples were received intact, at 2°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:



TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO/3994003

Report Number: PUJ1621

Sampled: 10/25/11-10/26/11
 Received: 10/26/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUJ1621-01 (PW-1 - Water)				Sampled: 10/25/11				
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11K0041	2.0	4.4	1	11/1/2011	11/1/2011	
Sample ID: PUJ1621-02 (MW-13 - Water)				Sampled: 10/26/11				
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11K0041	2.0	8.7	1	11/1/2011	11/1/2011	
Sample ID: PUJ1621-03 (MW-5 - Water)				Sampled: 10/26/11				
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11K0041	2.0	25	1	11/1/2011	11/1/2011	

TestAmerica Phoenix

Tina Paulauskas
 Project Manager

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PUJ1621 <Page 2 of 5>

ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO/3994003

Report Number: PUJ1621

Sampled: 10/25/11-10/26/11
 Received: 10/26/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 11K0041 Extracted: 11/01/11										
Blank Analyzed: 11/01/2011 (11K0041-BLK1)										
Perchlorate	ND	2.0	ug/l							
LCS Analyzed: 11/01/2011 (11K0041-BS1)										
Perchlorate	26.4	2.0	ug/l	25.0		106	85-115			
LCS Dup Analyzed: 11/01/2011 (11K0041-BSD1)										
Perchlorate	26.4	2.0	ug/l	25.0		106	85-115	0.06	15	
Duplicate Analyzed: 11/01/2011 (11K0041-DUP1)										
Perchlorate	25.5	2.0	ug/l		25.4			0.03	15	Source: PUJ1621-03
Matrix Spike Analyzed: 11/01/2011 (11K0041-MS1)										
Perchlorate	28.2	2.0	ug/l	25.0	2.78	102	80-120			Source: PUJ1851-07
Matrix Spike Dup Analyzed: 11/01/2011 (11K0041-MSD1)										
Perchlorate	28.4	2.0	ug/l	25.0	2.78	103	80-120	0.7	15	Source: PUJ1851-07

TestAmerica Phoenix

Tina Paulauskas
 Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994003

Report Number: PUJ1621

Sampled: 10/25/11-10/26/11
Received: 10/26/11

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD Relative Percent Difference

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Project Manager

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PUJ1621 <Page 4 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994003

Report Number: PUJ1621

Sampled: 10/25/11-10/26/11
Received: 10/26/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 314.0	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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CHAIN OF CUSTODY FORM

[] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
 [] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
 [] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Client Name/Address: ARCADIS 4646 E. Van Buren St. Phoenix AZ		Project/PO Number: UPLC/399 4003					Analysis Required											
Project Manager: Chris Legg		Phone Number:					Pvc Chlorate (314.0)											
Sampler: Nick Olivier		Fax Number:																
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives												Special Instructions
PW-1	WT	Poly	1	10/25	1405	∅	X											PVJ1621 -01
MW-13	↓	↓	↓	10/26	1010	↓	X											- 02
MW-5	↓	↓	↓	10/26	1300	↓	X											- 03
Relinquished By: Nick Olivier		Date / Time: 10/26/11 1435			Received By:			Date / Time:			Turnaround Time: (Check) same day _____ 72 hours _____ 24 hours _____ 5 days _____ 48 hours _____ normal <u> </u>							
Relinquished By:		Date / Time:			Received By:			Date / Time:			Sample Integrity: (Check) intact <u> </u> on ice <u> </u> 0 2.2 °C							
Relinquished By:		Date / Time:			Received in Lab By: <i>[Signature]</i>			Date / Time: 10/26/11 1435										

Note: By relinquishing samples to TestAmerica, 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.

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Chris Legg

Project: UPCO/3994003

Sampled: 10/27/11
Received: 10/27/11
Issued: 11/07/11 09:15

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PUJ1701-01	MW-2	Water
PUJ1701-02	MW-6	Water
PUJ1701-03	MW-1	Water
PUJ1701-04	MW-19	Water
PUJ1701-05	FD102711	Water
PUJ1701-06	TB102711	Water

SAMPLE RECEIPT: Samples were received intact, at 3°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Reviewed By:



TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Chris Legg

Project ID: UPCO/3994003

Report Number: PUJ1701

Sampled: 10/27/11

Received: 10/27/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUJ1701-01 (MW-2 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11K0098	10	ND	1	11/2/2011	11/3/2011	
Benzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
Bromobenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
Bromochloromethane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
Bromodichloromethane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
Bromoform	EPA 8260B	11K0098	1.0	ND	1	11/2/2011	11/3/2011	
Bromomethane	EPA 8260B	11K0098	1.0	ND	1	11/2/2011	11/3/2011	
2-Butanone (MEK)	EPA 8260B	11K0098	2.5	ND	1	11/2/2011	11/3/2011	
n-Butylbenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
sec-Butylbenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
tert-Butylbenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
Carbon disulfide	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
Carbon tetrachloride	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
Chlorobenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
Chloroethane	EPA 8260B	11K0098	1.0	ND	1	11/2/2011	11/3/2011	
Chloroform	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
Chloromethane	EPA 8260B	11K0098	1.0	ND	1	11/2/2011	11/3/2011	
2-Chlorotoluene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
4-Chlorotoluene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
Dibromochloromethane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11K0098	2.5	ND	1	11/2/2011	11/3/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
Dibromomethane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
1,2-Dichlorobenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
1,3-Dichlorobenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
1,4-Dichlorobenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
Dichlorodifluoromethane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
1,1-Dichloroethane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
1,2-Dichloroethane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
1,1-Dichloroethene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
cis-1,2-Dichloroethene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
trans-1,2-Dichloroethene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
1,2-Dichloropropane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
1,3-Dichloropropane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
2,2-Dichloropropane	EPA 8260B	11K0098	1.0	ND	1	11/2/2011	11/3/2011	
1,1-Dichloropropene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
cis-1,3-Dichloropropene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
trans-1,3-Dichloropropene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
Ethylbenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
Hexachlorobutadiene	EPA 8260B	11K0098	1.0	ND	1	11/2/2011	11/3/2011	

TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Chris Legg

Project ID: UPCO/3994003

Report Number: PUJ1701

Sampled: 10/27/11

Received: 10/27/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUJ1701-01 (MW-2 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11K0098	2.5	ND	1	11/2/2011	11/3/2011	
Iodomethane	EPA 8260B	11K0098	2.5	ND	1	11/2/2011	11/3/2011	
Isopropylbenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
p-Isopropyltoluene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
Methylene Chloride	EPA 8260B	11K0098	1.0	ND	1	11/2/2011	11/3/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11K0098	2.5	ND	1	11/2/2011	11/3/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
Naphthalene	EPA 8260B	11K0098	2.5	ND	1	11/2/2011	11/3/2011	
n-Propylbenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
Styrene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
Tetrachloroethene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
Toluene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11K0098	1.0	ND	1	11/2/2011	11/3/2011	B1
1,2,4-Trichlorobenzene	EPA 8260B	11K0098	1.0	ND	1	11/2/2011	11/3/2011	
1,1,1-Trichloroethane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
1,1,2-Trichloroethane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
Trichloroethene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
Trichlorofluoromethane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
1,2,3-Trichloropropane	EPA 8260B	11K0098	1.0	ND	1	11/2/2011	11/3/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
Vinyl Acetate	EPA 8260B	11K0098	1.0	ND	1	11/2/2011	11/3/2011	
Vinyl chloride	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
Xylenes, Total	EPA 8260B	11K0098	1.5	ND	1	11/2/2011	11/3/2011	
Surrogate: Dibromofluoromethane (70-130%)				96 %				
Surrogate: Toluene-d8 (70-130%)				102 %				
Surrogate: 4-Bromofluorobenzene (70-130%)				102 %				

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Tina Paulauskas
Project Manager

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PUJ1701 <Page 3 of 26>

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Chris Legg

Project ID: UPCO/3994003

Report Number: PUJ1701

Sampled: 10/27/11

Received: 10/27/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUJ1701-03 (MW-1 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11K0098	10	ND	1	11/2/2011	11/3/2011	
Benzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
Bromobenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
Bromochloromethane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
Bromodichloromethane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
Bromoform	EPA 8260B	11K0098	1.0	ND	1	11/2/2011	11/3/2011	
Bromomethane	EPA 8260B	11K0098	1.0	ND	1	11/2/2011	11/3/2011	
2-Butanone (MEK)	EPA 8260B	11K0098	2.5	ND	1	11/2/2011	11/3/2011	
n-Butylbenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
sec-Butylbenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
tert-Butylbenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
Carbon disulfide	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
Carbon tetrachloride	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
Chlorobenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
Chloroethane	EPA 8260B	11K0098	1.0	ND	1	11/2/2011	11/3/2011	
Chloroform	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
Chloromethane	EPA 8260B	11K0098	1.0	ND	1	11/2/2011	11/3/2011	
2-Chlorotoluene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
4-Chlorotoluene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
Dibromochloromethane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11K0098	2.5	ND	1	11/2/2011	11/3/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
Dibromomethane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
1,2-Dichlorobenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
1,3-Dichlorobenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
1,4-Dichlorobenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
Dichlorodifluoromethane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
1,1-Dichloroethane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
1,2-Dichloroethane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
1,1-Dichloroethene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
cis-1,2-Dichloroethene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
trans-1,2-Dichloroethene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
1,2-Dichloropropane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
1,3-Dichloropropane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
2,2-Dichloropropane	EPA 8260B	11K0098	1.0	ND	1	11/2/2011	11/3/2011	
1,1-Dichloropropene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
cis-1,3-Dichloropropene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
trans-1,3-Dichloropropene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
Ethylbenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
Hexachlorobutadiene	EPA 8260B	11K0098	1.0	ND	1	11/2/2011	11/3/2011	

TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Chris Legg

Project ID: UPCO/3994003

Report Number: PUJ1701

Sampled: 10/27/11

Received: 10/27/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUJ1701-03 (MW-1 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11K0098	2.5	ND	1	11/2/2011	11/3/2011	
Iodomethane	EPA 8260B	11K0098	2.5	ND	1	11/2/2011	11/3/2011	
Isopropylbenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
p-Isopropyltoluene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
Methylene Chloride	EPA 8260B	11K0098	1.0	ND	1	11/2/2011	11/3/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11K0098	2.5	ND	1	11/2/2011	11/3/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
Naphthalene	EPA 8260B	11K0098	2.5	ND	1	11/2/2011	11/3/2011	
n-Propylbenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
Styrene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
Tetrachloroethene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
Toluene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11K0098	1.0	ND	1	11/2/2011	11/3/2011	B1
1,2,4-Trichlorobenzene	EPA 8260B	11K0098	1.0	ND	1	11/2/2011	11/3/2011	
1,1,1-Trichloroethane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
1,1,2-Trichloroethane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
Trichloroethene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
Trichlorofluoromethane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
1,2,3-Trichloropropane	EPA 8260B	11K0098	1.0	ND	1	11/2/2011	11/3/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
Vinyl Acetate	EPA 8260B	11K0098	1.0	ND	1	11/2/2011	11/3/2011	
Vinyl chloride	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/3/2011	
Xylenes, Total	EPA 8260B	11K0098	1.5	ND	1	11/2/2011	11/3/2011	
Surrogate: Dibromofluoromethane (70-130%)				98 %				
Surrogate: Toluene-d8 (70-130%)				102 %				
Surrogate: 4-Bromofluorobenzene (70-130%)				104 %				

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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PUJ1701 <Page 5 of 26>

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Chris Legg

Project ID: UPCO/3994003

Report Number: PUJ1701

Sampled: 10/27/11
Received: 10/27/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUJ1701-05 (FD102711 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11K0098	10	ND	1	11/2/2011	11/2/2011	
Benzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
Bromobenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
Bromochloromethane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
Bromodichloromethane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
Bromoform	EPA 8260B	11K0098	1.0	ND	1	11/2/2011	11/2/2011	
Bromomethane	EPA 8260B	11K0098	1.0	ND	1	11/2/2011	11/2/2011	
2-Butanone (MEK)	EPA 8260B	11K0098	2.5	ND	1	11/2/2011	11/2/2011	
n-Butylbenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
sec-Butylbenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
tert-Butylbenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
Carbon disulfide	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
Carbon tetrachloride	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
Chlorobenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
Chloroethane	EPA 8260B	11K0098	1.0	ND	1	11/2/2011	11/2/2011	
Chloroform	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
Chloromethane	EPA 8260B	11K0098	1.0	ND	1	11/2/2011	11/2/2011	
2-Chlorotoluene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
4-Chlorotoluene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
Dibromochloromethane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11K0098	2.5	ND	1	11/2/2011	11/2/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
Dibromomethane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
1,2-Dichlorobenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
1,3-Dichlorobenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
1,4-Dichlorobenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
Dichlorodifluoromethane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
1,1-Dichloroethane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
1,2-Dichloroethane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
1,1-Dichloroethene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
cis-1,2-Dichloroethene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
trans-1,2-Dichloroethene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
1,2-Dichloropropane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
1,3-Dichloropropane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
2,2-Dichloropropane	EPA 8260B	11K0098	1.0	ND	1	11/2/2011	11/2/2011	
1,1-Dichloropropene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
cis-1,3-Dichloropropene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
trans-1,3-Dichloropropene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
Ethylbenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
Hexachlorobutadiene	EPA 8260B	11K0098	1.0	ND	1	11/2/2011	11/2/2011	

TestAmerica Phoenix

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Project ID: UPCO/3994003

Report Number: PUJ1701

Sampled: 10/27/11
Received: 10/27/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUJ1701-05 (FD102711 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11K0098	2.5	ND	1	11/2/2011	11/2/2011	
Iodomethane	EPA 8260B	11K0098	2.5	ND	1	11/2/2011	11/2/2011	
Isopropylbenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
p-Isopropyltoluene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
Methylene Chloride	EPA 8260B	11K0098	1.0	ND	1	11/2/2011	11/2/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11K0098	2.5	ND	1	11/2/2011	11/2/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
Naphthalene	EPA 8260B	11K0098	2.5	ND	1	11/2/2011	11/2/2011	
n-Propylbenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
Styrene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
Tetrachloroethene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
Toluene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11K0098	1.0	ND	1	11/2/2011	11/2/2011	B1
1,2,4-Trichlorobenzene	EPA 8260B	11K0098	1.0	ND	1	11/2/2011	11/2/2011	
1,1,1-Trichloroethane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
1,1,2-Trichloroethane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
Trichloroethene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
Trichlorofluoromethane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
1,2,3-Trichloropropane	EPA 8260B	11K0098	1.0	ND	1	11/2/2011	11/2/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
Vinyl Acetate	EPA 8260B	11K0098	1.0	ND	1	11/2/2011	11/2/2011	
Vinyl chloride	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
Xylenes, Total	EPA 8260B	11K0098	1.5	ND	1	11/2/2011	11/2/2011	
Surrogate: Dibromofluoromethane (70-130%)				98 %				
Surrogate: Toluene-d8 (70-130%)				102 %				
Surrogate: 4-Bromofluorobenzene (70-130%)				105 %				

TestAmerica Phoenix

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Project ID: UPCO/3994003

Report Number: PUJ1701

Sampled: 10/27/11
Received: 10/27/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUJ1701-06 (TB102711 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11K0098	10	ND	1	11/2/2011	11/2/2011	
Benzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
Bromobenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
Bromochloromethane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
Bromodichloromethane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
Bromoform	EPA 8260B	11K0098	1.0	ND	1	11/2/2011	11/2/2011	
Bromomethane	EPA 8260B	11K0098	1.0	ND	1	11/2/2011	11/2/2011	
2-Butanone (MEK)	EPA 8260B	11K0098	2.5	ND	1	11/2/2011	11/2/2011	
n-Butylbenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
sec-Butylbenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
tert-Butylbenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
Carbon disulfide	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
Carbon tetrachloride	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
Chlorobenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
Chloroethane	EPA 8260B	11K0098	1.0	ND	1	11/2/2011	11/2/2011	
Chloroform	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
Chloromethane	EPA 8260B	11K0098	1.0	ND	1	11/2/2011	11/2/2011	
2-Chlorotoluene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
4-Chlorotoluene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
Dibromochloromethane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11K0098	2.5	ND	1	11/2/2011	11/2/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
Dibromomethane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
1,2-Dichlorobenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
1,3-Dichlorobenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
1,4-Dichlorobenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
Dichlorodifluoromethane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
1,1-Dichloroethane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
1,2-Dichloroethane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
1,1-Dichloroethene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
cis-1,2-Dichloroethene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
trans-1,2-Dichloroethene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
1,2-Dichloropropane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
1,3-Dichloropropane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
2,2-Dichloropropane	EPA 8260B	11K0098	1.0	ND	1	11/2/2011	11/2/2011	
1,1-Dichloropropene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
cis-1,3-Dichloropropene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
trans-1,3-Dichloropropene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
Ethylbenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
Hexachlorobutadiene	EPA 8260B	11K0098	1.0	ND	1	11/2/2011	11/2/2011	

TestAmerica Phoenix

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Project Manager

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Phoenix, AZ 85008
Attention: Chris Legg

Project ID: UPCO/3994003

Report Number: PUJ1701

Sampled: 10/27/11

Received: 10/27/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUJ1701-06 (TB102711 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11K0098	2.5	ND	1	11/2/2011	11/2/2011	
Iodomethane	EPA 8260B	11K0098	2.5	ND	1	11/2/2011	11/2/2011	
Isopropylbenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
p-Isopropyltoluene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
Methylene Chloride	EPA 8260B	11K0098	1.0	ND	1	11/2/2011	11/2/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11K0098	2.5	ND	1	11/2/2011	11/2/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
Naphthalene	EPA 8260B	11K0098	2.5	ND	1	11/2/2011	11/2/2011	
n-Propylbenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
Styrene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
Tetrachloroethene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
Toluene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11K0098	1.0	ND	1	11/2/2011	11/2/2011	B1
1,2,4-Trichlorobenzene	EPA 8260B	11K0098	1.0	ND	1	11/2/2011	11/2/2011	
1,1,1-Trichloroethane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
1,1,2-Trichloroethane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
Trichloroethene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
Trichlorofluoromethane	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
1,2,3-Trichloropropane	EPA 8260B	11K0098	1.0	ND	1	11/2/2011	11/2/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
Vinyl Acetate	EPA 8260B	11K0098	1.0	ND	1	11/2/2011	11/2/2011	
Vinyl chloride	EPA 8260B	11K0098	0.50	ND	1	11/2/2011	11/2/2011	
Xylenes, Total	EPA 8260B	11K0098	1.5	ND	1	11/2/2011	11/2/2011	
Surrogate: Dibromofluoromethane (70-130%)								96 %
Surrogate: Toluene-d8 (70-130%)								101 %
Surrogate: 4-Bromofluorobenzene (70-130%)								104 %

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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PUJ1701 <Page 9 of 26>

ARCADIS U.S., Inc. - Phoenix
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 Attention: Chris Legg

Project ID: UPCO/3994003

Report Number: PUJ1701

Sampled: 10/27/11
 Received: 10/27/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUJ1701-01 (MW-2 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11K0041	10	90	5	11/1/2011	11/1/2011	
Sample ID: PUJ1701-02 (MW-6 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11K0041	10	18	5	11/1/2011	11/1/2011	
Sample ID: PUJ1701-03 (MW-1 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11K0041	10	73	5	11/1/2011	11/2/2011	
Sample ID: PUJ1701-04 (MW-19 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11K0041	4000	45000	2000	11/1/2011	11/2/2011	
Sample ID: PUJ1701-05RE1 (FD102711 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11K0141	10	91	5	11/3/2011	11/3/2011	

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Tina Paulauskas
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ARCADIS U.S., Inc. - Phoenix
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 Attention: Chris Legg

Project ID: UPCO/3994003

Report Number: PUJ1701

Sampled: 10/27/11

Received: 10/27/11

1,4-DIOXANE BY GCMS - SINGLE ION MONITORING (SIM)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUJ1701-01 (MW-2 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8260B-SIM	11J3910	2.0	2.8	1	10/30/2011	10/31/2011	
Surrogate: Dibromofluoromethane (80-120%)				108 %				
Sample ID: PUJ1701-03 (MW-1 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8260B-SIM	11J3910	2.0	ND	1	10/30/2011	10/31/2011	
Surrogate: Dibromofluoromethane (80-120%)				108 %				
Sample ID: PUJ1701-05 (FD102711 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8260B-SIM	11J3910	2.0	2.7	1	10/30/2011	10/31/2011	
Surrogate: Dibromofluoromethane (80-120%)				109 %				
Sample ID: PUJ1701-06 (TB102711 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8260B-SIM	11J3910	2.0	ND	1	10/30/2011	10/31/2011	
Surrogate: Dibromofluoromethane (80-120%)				109 %				

TestAmerica Phoenix

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Project ID: UPCO/3994003

Report Number: PUJ1701

Sampled: 10/27/11

Received: 10/27/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11K0098 Extracted: 11/02/11										
Blank Analyzed: 11/02/2011 (11K0098-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	0.50	ug/l							
Bromochloromethane	ND	0.50	ug/l							
Bromodichloromethane	ND	0.50	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
2-Butanone (MEK)	ND	2.5	ug/l							
n-Butylbenzene	ND	0.50	ug/l							
sec-Butylbenzene	ND	0.50	ug/l							
tert-Butylbenzene	ND	0.50	ug/l							
Carbon disulfide	ND	0.50	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	0.50	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	0.50	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	0.50	ug/l							
4-Chlorotoluene	ND	0.50	ug/l							
Dibromochloromethane	ND	0.50	ug/l							
1,2-Dibromo-3-chloropropane	ND	2.5	ug/l							
1,2-Dibromoethane (EDB)	ND	0.50	ug/l							
Dibromomethane	ND	0.50	ug/l							
1,2-Dichlorobenzene	ND	0.50	ug/l							
1,3-Dichlorobenzene	ND	0.50	ug/l							
1,4-Dichlorobenzene	ND	0.50	ug/l							
Dichlorodifluoromethane	ND	0.50	ug/l							
1,1-Dichloroethane	ND	0.50	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	0.50	ug/l							
cis-1,2-Dichloroethene	ND	0.50	ug/l							
trans-1,2-Dichloroethene	ND	0.50	ug/l							
1,2-Dichloropropane	ND	0.50	ug/l							
1,3-Dichloropropane	ND	0.50	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Chris Legg

Project ID: UPCO/3994003
Report Number: PUJ1701

Sampled: 10/27/11
Received: 10/27/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11K0098 Extracted: 11/02/11										
Blank Analyzed: 11/02/2011 (11K0098-BLK1)										
1,1-Dichloropropene	ND	0.50	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
2-Hexanone	ND	2.5	ug/l							
Iodomethane	ND	2.5	ug/l							
Isopropylbenzene	ND	0.50	ug/l							
p-Isopropyltoluene	ND	0.50	ug/l							
Methylene Chloride	ND	1.0	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	2.5	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	0.50	ug/l							
Naphthalene	ND	2.5	ug/l							
n-Propylbenzene	ND	0.50	ug/l							
Styrene	ND	0.50	ug/l							
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l							
Tetrachloroethene	ND	0.50	ug/l							
Toluene	ND	0.50	ug/l							
1,2,3-Trichlorobenzene	1.01	1.0	ug/l							B1
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	0.50	ug/l							
1,1,2-Trichloroethane	ND	0.50	ug/l							
Trichloroethene	ND	0.50	ug/l							
Trichlorofluoromethane	ND	0.50	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	0.50	ug/l							
1,3,5-Trimethylbenzene	ND	0.50	ug/l							
Vinyl Acetate	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
Xylenes, Total	ND	1.5	ug/l							
Surrogate: Dibromofluoromethane	23.7		ug/l	25.0		95	70-130			
Surrogate: Toluene-d8	24.7		ug/l	25.0		99	70-130			
Surrogate: 4-Bromofluorobenzene	26.2		ug/l	25.0		105	70-130			

TestAmerica Phoenix

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Received: 10/27/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11K0098 Extracted: 11/02/11										
LCS Analyzed: 11/02/2011 (11K0098-BS1)										
Acetone	19.9	10	ug/l	25.0		80	30-150			
Benzene	25.2	0.50	ug/l	25.0		101	70-130			
Bromobenzene	24.4	0.50	ug/l	25.0		98	70-130			
Bromochloromethane	24.1	0.50	ug/l	25.0		96	70-130			
Bromodichloromethane	24.6	0.50	ug/l	25.0		98	70-130			
Bromoform	23.4	1.0	ug/l	25.0		94	67-122			
Bromomethane	24.9	1.0	ug/l	25.0		100	64-132			
2-Butanone (MEK)	24.2	2.5	ug/l	25.0		97	48-150			
n-Butylbenzene	24.5	0.50	ug/l	25.0		98	70-130			
sec-Butylbenzene	25.0	0.50	ug/l	25.0		100	70-130			
tert-Butylbenzene	25.5	0.50	ug/l	25.0		102	70-130			
Carbon disulfide	24.6	0.50	ug/l	25.0		98	61-126			
Carbon tetrachloride	26.2	0.50	ug/l	25.0		105	70-130			
Chlorobenzene	24.5	0.50	ug/l	25.0		98	70-130			
Chloroethane	23.9	1.0	ug/l	25.0		95	69-128			
Chloroform	23.0	0.50	ug/l	25.0		92	70-130			
Chloromethane	21.9	1.0	ug/l	25.0		87	56-131			
2-Chlorotoluene	24.0	0.50	ug/l	25.0		96	70-130			
4-Chlorotoluene	24.1	0.50	ug/l	25.0		96	70-130			
Dibromochloromethane	24.6	0.50	ug/l	25.0		98	70-130			
1,2-Dibromo-3-chloropropane	21.6	2.5	ug/l	25.0		86	63-129			
1,2-Dibromoethane (EDB)	24.0	0.50	ug/l	25.0		96	70-130			
Dibromomethane	23.5	0.50	ug/l	25.0		94	70-130			
1,2-Dichlorobenzene	23.8	0.50	ug/l	25.0		95	70-130			
1,3-Dichlorobenzene	24.3	0.50	ug/l	25.0		97	70-130			
1,4-Dichlorobenzene	23.8	0.50	ug/l	25.0		95	70-130			
Dichlorodifluoromethane	20.7	0.50	ug/l	25.0		83	42-150			
1,1-Dichloroethane	22.6	0.50	ug/l	25.0		90	70-130			
1,2-Dichloroethane	23.4	0.50	ug/l	25.0		94	72-133			
1,1-Dichloroethene	23.3	0.50	ug/l	25.0		93	70-130			
cis-1,2-Dichloroethene	24.0	0.50	ug/l	25.0		96	70-130			
trans-1,2-Dichloroethene	23.6	0.50	ug/l	25.0		95	70-130			
1,2-Dichloropropane	24.1	0.50	ug/l	25.0		97	70-130			
1,3-Dichloropropane	24.9	0.50	ug/l	25.0		100	70-130			
2,2-Dichloropropane	25.6	1.0	ug/l	25.0		102	70-130			

TestAmerica Phoenix

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Received: 10/27/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11K0098 Extracted: 11/02/11										
LCS Analyzed: 11/02/2011 (11K0098-BS1)										
1,1-Dichloropropene	24.7	0.50	ug/l	25.0		99	70-130			
cis-1,3-Dichloropropene	25.0	0.50	ug/l	25.0		100	70-130			
trans-1,3-Dichloropropene	24.4	0.50	ug/l	25.0		97	70-130			
Ethylbenzene	26.8	0.50	ug/l	25.0		107	70-130			
Hexachlorobutadiene	27.3	1.0	ug/l	25.0		109	70-130			
2-Hexanone	22.3	2.5	ug/l	25.0		89	44-150			
Iodomethane	32.4	2.5	ug/l	25.0		130	58-138			
Isopropylbenzene	27.5	0.50	ug/l	25.0		110	70-130			
p-Isopropyltoluene	24.4	0.50	ug/l	25.0		98	70-130			
Methylene Chloride	22.6	1.0	ug/l	25.0		90	70-130			
4-Methyl-2-pentanone (MIBK)	24.6	2.5	ug/l	25.0		99	61-142			
Methyl-tert-butyl Ether (MTBE)	22.6	0.50	ug/l	25.0		90	70-130			
Naphthalene	26.7	2.5	ug/l	25.0		107	65-129			
n-Propylbenzene	25.8	0.50	ug/l	25.0		103	70-130			
Styrene	27.2	0.50	ug/l	25.0		109	70-130			
1,1,1,2-Tetrachloroethane	24.0	0.50	ug/l	25.0		96	70-130			
1,1,2,2-Tetrachloroethane	23.8	0.50	ug/l	25.0		95	70-130			
Tetrachloroethene	25.4	0.50	ug/l	25.0		102	70-130			
Toluene	26.5	0.50	ug/l	25.0		106	70-130			
1,2,3-Trichlorobenzene	28.1	1.0	ug/l	25.0		112	70-130			
1,2,4-Trichlorobenzene	26.5	1.0	ug/l	25.0		106	70-130			
1,1,1-Trichloroethane	23.7	0.50	ug/l	25.0		95	70-130			
1,1,2-Trichloroethane	23.8	0.50	ug/l	25.0		95	70-130			
Trichloroethene	25.3	0.50	ug/l	25.0		101	70-130			
Trichlorofluoromethane	27.0	0.50	ug/l	25.0		108	78-149			
1,2,3-Trichloropropane	24.2	1.0	ug/l	25.0		97	70-130			
1,2,4-Trimethylbenzene	24.1	0.50	ug/l	25.0		96	70-130			
1,3,5-Trimethylbenzene	24.9	0.50	ug/l	25.0		99	70-130			
Vinyl Acetate	24.9	1.0	ug/l	25.0		100	57-149			
Vinyl chloride	24.6	0.50	ug/l	25.0		98	66-134			
Xylenes, Total	51.1	1.5	ug/l	50.0		102	70-130			
Surrogate: Dibromofluoromethane	24.1		ug/l	25.0		97	70-130			
Surrogate: Toluene-d8	24.8		ug/l	25.0		99	70-130			
Surrogate: 4-Bromofluorobenzene	26.3		ug/l	25.0		105	70-130			

TestAmerica Phoenix

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Attention: Chris Legg

Project ID: UPCO/3994003

Report Number: PUJ1701

Sampled: 10/27/11
Received: 10/27/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11K0098 Extracted: 11/02/11										
LCS Dup Analyzed: 11/02/2011 (11K0098-BSD1)										
Acetone	20.5	10	ug/l	25.0		82	30-150	3	35	
Benzene	25.0	0.50	ug/l	25.0		100	70-130	1	20	
Bromobenzene	23.8	0.50	ug/l	25.0		95	70-130	3	20	
Bromochloromethane	23.9	0.50	ug/l	25.0		96	70-130	0.6	20	
Bromodichloromethane	24.5	0.50	ug/l	25.0		98	70-130	0.2	20	
Bromoform	23.4	1.0	ug/l	25.0		94	67-122	0.04	20	
Bromomethane	24.7	1.0	ug/l	25.0		99	64-132	0.9	20	
2-Butanone (MEK)	25.4	2.5	ug/l	25.0		101	48-150	5	33	
n-Butylbenzene	24.0	0.50	ug/l	25.0		96	70-130	2	20	
sec-Butylbenzene	24.2	0.50	ug/l	25.0		97	70-130	3	20	
tert-Butylbenzene	24.4	0.50	ug/l	25.0		98	70-130	4	20	
Carbon disulfide	23.3	0.50	ug/l	25.0		93	61-126	5	20	
Carbon tetrachloride	25.2	0.50	ug/l	25.0		101	70-130	4	20	
Chlorobenzene	24.5	0.50	ug/l	25.0		98	70-130	0.04	20	
Chloroethane	23.3	1.0	ug/l	25.0		93	69-128	2	20	
Chloroform	22.2	0.50	ug/l	25.0		89	70-130	4	20	
Chloromethane	21.5	1.0	ug/l	25.0		86	56-131	2	20	
2-Chlorotoluene	22.7	0.50	ug/l	25.0		91	70-130	5	20	
4-Chlorotoluene	22.6	0.50	ug/l	25.0		90	70-130	6	20	
Dibromochloromethane	24.4	0.50	ug/l	25.0		98	70-130	0.5	20	
1,2-Dibromo-3-chloropropane	21.8	2.5	ug/l	25.0		87	63-129	0.8	25	
1,2-Dibromoethane (EDB)	24.0	0.50	ug/l	25.0		96	70-130	0	20	
Dibromomethane	24.2	0.50	ug/l	25.0		97	70-130	3	20	
1,2-Dichlorobenzene	23.5	0.50	ug/l	25.0		94	70-130	1	20	
1,3-Dichlorobenzene	23.8	0.50	ug/l	25.0		95	70-130	2	20	
1,4-Dichlorobenzene	23.2	0.50	ug/l	25.0		93	70-130	3	20	
Dichlorodifluoromethane	20.3	0.50	ug/l	25.0		81	42-150	2	20	
1,1-Dichloroethane	21.3	0.50	ug/l	25.0		85	70-130	6	20	
1,2-Dichloroethane	23.4	0.50	ug/l	25.0		94	72-133	0.04	20	
1,1-Dichloroethene	23.0	0.50	ug/l	25.0		92	70-130	1	20	
cis-1,2-Dichloroethene	23.5	0.50	ug/l	25.0		94	70-130	2	20	
trans-1,2-Dichloroethene	22.7	0.50	ug/l	25.0		91	70-130	4	20	
1,2-Dichloropropane	24.1	0.50	ug/l	25.0		96	70-130	0.2	20	
1,3-Dichloropropane	24.6	0.50	ug/l	25.0		99	70-130	1	20	
2,2-Dichloropropane	24.0	1.0	ug/l	25.0		96	70-130	6	20	

TestAmerica Phoenix

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Sampled: 10/27/11
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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11K0098 Extracted: 11/02/11										
LCS Dup Analyzed: 11/02/2011 (11K0098-BSD1)										
1,1-Dichloropropene	23.8	0.50	ug/l	25.0		95	70-130	4	20	
cis-1,3-Dichloropropene	25.2	0.50	ug/l	25.0		101	70-130	0.5	20	
trans-1,3-Dichloropropene	25.0	0.50	ug/l	25.0		100	70-130	3	20	
Ethylbenzene	25.1	0.50	ug/l	25.0		100	70-130	7	20	
Hexachlorobutadiene	25.9	1.0	ug/l	25.0		104	70-130	5	20	
2-Hexanone	23.1	2.5	ug/l	25.0		92	44-150	4	31	
Iodomethane	31.4	2.5	ug/l	25.0		126	58-138	3	25	
Isopropylbenzene	25.0	0.50	ug/l	25.0		100	70-130	9	20	
p-Isopropyltoluene	23.7	0.50	ug/l	25.0		95	70-130	3	20	
Methylene Chloride	22.2	1.0	ug/l	25.0		89	70-130	2	20	
4-Methyl-2-pentanone (MIBK)	26.8	2.5	ug/l	25.0		107	61-142	8	22	
Methyl-tert-butyl Ether (MTBE)	22.9	0.50	ug/l	25.0		92	70-130	2	20	
Naphthalene	25.8	2.5	ug/l	25.0		103	65-129	3	20	
n-Propylbenzene	24.3	0.50	ug/l	25.0		97	70-130	6	20	
Styrene	26.4	0.50	ug/l	25.0		106	70-130	3	20	
1,1,1,2-Tetrachloroethane	24.0	0.50	ug/l	25.0		96	70-130	0.2	20	
1,1,2,2-Tetrachloroethane	24.3	0.50	ug/l	25.0		97	70-130	2	20	
Tetrachloroethene	24.5	0.50	ug/l	25.0		98	70-130	4	20	
Toluene	25.7	0.50	ug/l	25.0		103	70-130	3	20	
1,2,3-Trichlorobenzene	26.4	1.0	ug/l	25.0		105	70-130	6	20	
1,2,4-Trichlorobenzene	25.6	1.0	ug/l	25.0		102	70-130	4	20	
1,1,1-Trichloroethane	23.1	0.50	ug/l	25.0		92	70-130	3	20	
1,1,2-Trichloroethane	23.9	0.50	ug/l	25.0		95	70-130	0.3	20	
Trichloroethene	24.7	0.50	ug/l	25.0		99	70-130	2	20	
Trichlorofluoromethane	25.5	0.50	ug/l	25.0		102	78-149	6	20	
1,2,3-Trichloropropane	24.5	1.0	ug/l	25.0		98	70-130	2	20	
1,2,4-Trimethylbenzene	23.1	0.50	ug/l	25.0		93	70-130	4	20	
1,3,5-Trimethylbenzene	23.4	0.50	ug/l	25.0		94	70-130	6	20	
Vinyl Acetate	25.0	1.0	ug/l	25.0		100	57-149	0.6	21	
Vinyl chloride	23.7	0.50	ug/l	25.0		95	66-134	3	20	
Xylenes, Total	48.8	1.5	ug/l	50.0		98	70-130	5	20	
Surrogate: Dibromofluoromethane	23.8		ug/l	25.0		95	70-130			
Surrogate: Toluene-d8	24.9		ug/l	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	26.2		ug/l	25.0		105	70-130			

TestAmerica Phoenix

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11K0098 Extracted: 11/02/11										
Matrix Spike Analyzed: 11/02/2011 (11K0098-MS1)					Source: PUJ1730-06					
Acetone	17.9	10	ug/l	25.0	ND	71	10-150			
Benzene	26.0	0.50	ug/l	25.0	ND	104	70-130			
Bromobenzene	23.9	0.50	ug/l	25.0	ND	96	70-130			
Bromochloromethane	24.2	0.50	ug/l	25.0	ND	97	70-130			
Bromodichloromethane	25.1	0.50	ug/l	25.0	ND	101	70-130			
Bromoform	23.6	1.0	ug/l	25.0	ND	94	62-126			
Bromomethane	25.0	1.0	ug/l	25.0	ND	100	55-136			
2-Butanone (MEK)	24.5	2.5	ug/l	25.0	ND	98	22-150			
n-Butylbenzene	24.4	0.50	ug/l	25.0	ND	98	70-130			
sec-Butylbenzene	24.8	0.50	ug/l	25.0	ND	99	70-130			
tert-Butylbenzene	25.0	0.50	ug/l	25.0	ND	100	70-130			
Carbon disulfide	25.9	0.50	ug/l	25.0	ND	104	56-132			
Carbon tetrachloride	26.8	0.50	ug/l	25.0	ND	107	76-131			
Chlorobenzene	24.1	0.50	ug/l	25.0	ND	96	70-130			
Chloroethane	23.5	1.0	ug/l	25.0	ND	94	67-134			
Chloroform	22.9	0.50	ug/l	25.0	ND	92	70-130			
Chloromethane	23.1	1.0	ug/l	25.0	3.43	79	50-135			
2-Chlorotoluene	22.6	0.50	ug/l	25.0	ND	91	70-130			
4-Chlorotoluene	23.3	0.50	ug/l	25.0	ND	93	70-130			
Dibromochloromethane	24.9	0.50	ug/l	25.0	ND	100	70-130			
1,2-Dibromo-3-chloropropane	22.6	2.5	ug/l	25.0	ND	90	60-135			
1,2-Dibromoethane (EDB)	23.9	0.50	ug/l	25.0	ND	95	70-130			
Dibromomethane	24.0	0.50	ug/l	25.0	ND	96	70-130			
1,2-Dichlorobenzene	23.8	0.50	ug/l	25.0	ND	95	70-130			
1,3-Dichlorobenzene	24.0	0.50	ug/l	25.0	ND	96	70-130			
1,4-Dichlorobenzene	23.7	0.50	ug/l	25.0	ND	95	70-130			
Dichlorodifluoromethane	21.1	0.50	ug/l	25.0	ND	85	36-150			
1,1-Dichloroethane	22.8	0.50	ug/l	25.0	ND	91	70-130			
1,2-Dichloroethane	23.8	0.50	ug/l	25.0	ND	95	68-143			
1,1-Dichloroethene	24.9	0.50	ug/l	25.0	ND	100	70-130			
cis-1,2-Dichloroethene	24.1	0.50	ug/l	25.0	ND	97	70-130			
trans-1,2-Dichloroethene	24.8	0.50	ug/l	25.0	ND	99	70-130			
1,2-Dichloropropane	24.2	0.50	ug/l	25.0	ND	97	70-130			
1,3-Dichloropropane	24.0	0.50	ug/l	25.0	ND	96	70-130			
2,2-Dichloropropane	26.5	1.0	ug/l	25.0	ND	106	66-130			

TestAmerica Phoenix

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Project ID: UPCO/3994003
Report Number: PUJ1701

Sampled: 10/27/11
Received: 10/27/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11K0098 Extracted: 11/02/11										
Matrix Spike Analyzed: 11/02/2011 (11K0098-MS1)					Source: PUJ1730-06					
1,1-Dichloropropene	25.3	0.50	ug/l	25.0	ND	101	70-130			
cis-1,3-Dichloropropene	25.0	0.50	ug/l	25.0	ND	100	70-130			
trans-1,3-Dichloropropene	24.8	0.50	ug/l	25.0	ND	99	71-132			
Ethylbenzene	26.0	0.50	ug/l	25.0	ND	104	70-130			
Hexachlorobutadiene	26.6	1.0	ug/l	25.0	ND	106	66-129			
2-Hexanone	20.4	2.5	ug/l	25.0	ND	82	18-150			
Iodomethane	34.0	2.5	ug/l	25.0	ND	136	47-141			
Isopropylbenzene	27.1	0.50	ug/l	25.0	ND	109	78-137			
p-Isopropyltoluene	24.6	0.50	ug/l	25.0	ND	98	70-130			
Methylene Chloride	22.2	1.0	ug/l	25.0	ND	89	74-132			
4-Methyl-2-pentanone (MIBK)	24.1	2.5	ug/l	25.0	ND	96	56-145			
Methyl-tert-butyl Ether (MTBE)	22.3	0.50	ug/l	25.0	ND	89	67-138			
Naphthalene	27.3	2.5	ug/l	25.0	ND	109	54-135			
n-Propylbenzene	24.9	0.50	ug/l	25.0	ND	100	70-130			
Styrene	26.0	0.50	ug/l	25.0	ND	104	51-123			
1,1,1,2-Tetrachloroethane	23.6	0.50	ug/l	25.0	ND	94	70-130			
1,1,2,2-Tetrachloroethane	24.0	0.50	ug/l	25.0	ND	96	69-133			
Tetrachloroethene	25.6	0.50	ug/l	25.0	ND	103	70-130			
Toluene	26.8	0.50	ug/l	25.0	ND	107	70-130			
1,2,3-Trichlorobenzene	27.5	1.0	ug/l	25.0	ND	110	70-130			
1,2,4-Trichlorobenzene	25.9	1.0	ug/l	25.0	ND	103	66-126			
1,1,1-Trichloroethane	24.5	0.50	ug/l	25.0	ND	98	76-132			
1,1,2-Trichloroethane	24.4	0.50	ug/l	25.0	ND	97	70-130			
Trichloroethene	25.8	0.50	ug/l	25.0	ND	103	70-130			
Trichlorofluoromethane	27.7	0.50	ug/l	25.0	ND	111	74-150			
1,2,3-Trichloropropane	24.4	1.0	ug/l	25.0	ND	97	70-130			
1,2,4-Trimethylbenzene	23.5	0.50	ug/l	25.0	ND	94	70-130			
1,3,5-Trimethylbenzene	24.0	0.50	ug/l	25.0	ND	96	61-138			
Vinyl Acetate	25.2	1.0	ug/l	25.0	ND	101	50-150			
Vinyl chloride	24.3	0.50	ug/l	25.0	ND	97	58-139			
Xylenes, Total	50.2	1.5	ug/l	50.0	ND	100	70-130			
Surrogate: Dibromofluoromethane	23.9		ug/l	25.0		96	70-130			
Surrogate: Toluene-d8	25.0		ug/l	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	25.8		ug/l	25.0		103	70-130			

TestAmerica Phoenix

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Project ID: UPCO/3994003

Report Number: PUJ1701

Sampled: 10/27/11
Received: 10/27/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11K0098 Extracted: 11/02/11										
Matrix Spike Dup Analyzed: 11/02/2011 (11K0098-MSD1)					Source: PUJ1730-06					
Acetone	16.0	10	ug/l	25.0	ND	64	10-150	11	35	
Benzene	24.8	0.50	ug/l	25.0	ND	99	70-130	5	20	
Bromobenzene	22.9	0.50	ug/l	25.0	ND	92	70-130	4	20	
Bromochloromethane	22.9	0.50	ug/l	25.0	ND	92	70-130	5	20	
Bromodichloromethane	24.1	0.50	ug/l	25.0	ND	96	70-130	4	20	
Bromoform	23.6	1.0	ug/l	25.0	ND	94	62-126	0.2	20	
Bromomethane	25.7	1.0	ug/l	25.0	ND	103	55-136	3	24	
2-Butanone (MEK)	23.6	2.5	ug/l	25.0	ND	94	22-150	4	31	
n-Butylbenzene	23.5	0.50	ug/l	25.0	ND	94	70-130	4	20	
sec-Butylbenzene	24.0	0.50	ug/l	25.0	ND	96	70-130	3	20	
tert-Butylbenzene	22.2	0.50	ug/l	25.0	ND	89	70-130	12	20	
Carbon disulfide	24.2	0.50	ug/l	25.0	ND	97	56-132	7	20	
Carbon tetrachloride	25.5	0.50	ug/l	25.0	ND	102	76-131	5	20	
Chlorobenzene	24.0	0.50	ug/l	25.0	ND	96	70-130	0.5	20	
Chloroethane	24.7	1.0	ug/l	25.0	ND	99	67-134	5	20	
Chloroform	21.9	0.50	ug/l	25.0	ND	88	70-130	4	20	
Chloromethane	24.5	1.0	ug/l	25.0	3.43	84	50-135	6	20	
2-Chlorotoluene	22.6	0.50	ug/l	25.0	ND	90	70-130	0.2	20	
4-Chlorotoluene	22.9	0.50	ug/l	25.0	ND	92	70-130	2	20	
Dibromochloromethane	24.7	0.50	ug/l	25.0	ND	99	70-130	0.8	20	
1,2-Dibromo-3-chloropropane	20.2	2.5	ug/l	25.0	ND	81	60-135	11	29	
1,2-Dibromoethane (EDB)	23.7	0.50	ug/l	25.0	ND	95	70-130	0.8	20	
Dibromomethane	23.2	0.50	ug/l	25.0	ND	93	70-130	4	20	
1,2-Dichlorobenzene	23.0	0.50	ug/l	25.0	ND	92	70-130	3	20	
1,3-Dichlorobenzene	23.3	0.50	ug/l	25.0	ND	93	70-130	3	20	
1,4-Dichlorobenzene	22.9	0.50	ug/l	25.0	ND	92	70-130	3	20	
Dichlorodifluoromethane	20.6	0.50	ug/l	25.0	ND	82	36-150	2	22	
1,1-Dichloroethane	21.8	0.50	ug/l	25.0	ND	87	70-130	5	20	
1,2-Dichloroethane	22.9	0.50	ug/l	25.0	ND	92	68-143	4	20	
1,1-Dichloroethene	23.4	0.50	ug/l	25.0	ND	94	70-130	6	20	
cis-1,2-Dichloroethene	23.1	0.50	ug/l	25.0	ND	92	70-130	4	20	
trans-1,2-Dichloroethene	22.8	0.50	ug/l	25.0	ND	91	70-130	8	20	
1,2-Dichloropropane	23.5	0.50	ug/l	25.0	ND	94	70-130	3	20	
1,3-Dichloropropane	24.4	0.50	ug/l	25.0	ND	98	70-130	1	20	
2,2-Dichloropropane	24.8	1.0	ug/l	25.0	ND	99	66-130	7	20	

TestAmerica Phoenix

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Project ID: UPCO/3994003
Report Number: PUJ1701

Sampled: 10/27/11
Received: 10/27/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11K0098 Extracted: 11/02/11										
Matrix Spike Dup Analyzed: 11/02/2011 (11K0098-MSD1)					Source: PUJ1730-06					
1,1-Dichloropropene	24.4	0.50	ug/l	25.0	ND	98	70-130	4	20	
cis-1,3-Dichloropropene	24.1	0.50	ug/l	25.0	ND	96	70-130	4	20	
trans-1,3-Dichloropropene	24.0	0.50	ug/l	25.0	ND	96	71-132	3	20	
Ethylbenzene	25.6	0.50	ug/l	25.0	ND	102	70-130	2	20	
Hexachlorobutadiene	25.5	1.0	ug/l	25.0	ND	102	66-129	4	21	
2-Hexanone	23.8	2.5	ug/l	25.0	ND	95	18-150	15	25	
Iodomethane	31.7	2.5	ug/l	25.0	ND	127	47-141	7	29	
Isopropylbenzene	26.1	0.50	ug/l	25.0	ND	104	78-137	4	20	
p-Isopropyltoluene	23.5	0.50	ug/l	25.0	ND	94	70-130	4	20	
Methylene Chloride	21.6	1.0	ug/l	25.0	ND	86	74-132	3	20	
4-Methyl-2-pentanone (MIBK)	25.9	2.5	ug/l	25.0	ND	104	56-145	7	26	
Methyl-tert-butyl Ether (MTBE)	22.0	0.50	ug/l	25.0	ND	88	67-138	1	21	
Naphthalene	25.4	2.5	ug/l	25.0	ND	102	54-135	7	33	
n-Propylbenzene	24.6	0.50	ug/l	25.0	ND	98	70-130	1	20	
Styrene	25.9	0.50	ug/l	25.0	ND	103	51-123	0.7	21	
1,1,1,2-Tetrachloroethane	23.7	0.50	ug/l	25.0	ND	95	70-130	0.2	20	
1,1,2,2-Tetrachloroethane	23.4	0.50	ug/l	25.0	ND	93	69-133	3	20	
Tetrachloroethene	25.0	0.50	ug/l	25.0	ND	100	70-130	2	20	
Toluene	25.5	0.50	ug/l	25.0	ND	102	70-130	5	20	
1,2,3-Trichlorobenzene	26.4	1.0	ug/l	25.0	ND	106	70-130	4	20	
1,2,4-Trichlorobenzene	24.8	1.0	ug/l	25.0	ND	99	66-126	4	20	
1,1,1-Trichloroethane	23.3	0.50	ug/l	25.0	ND	93	76-132	5	20	
1,1,2-Trichloroethane	23.2	0.50	ug/l	25.0	ND	93	70-130	5	20	
Trichloroethene	24.3	0.50	ug/l	25.0	ND	97	70-130	6	20	
Trichlorofluoromethane	23.7	0.50	ug/l	25.0	ND	95	74-150	15	20	
1,2,3-Trichloropropane	23.7	1.0	ug/l	25.0	ND	95	70-130	3	20	
1,2,4-Trimethylbenzene	22.8	0.50	ug/l	25.0	ND	91	70-130	3	20	
1,3,5-Trimethylbenzene	23.7	0.50	ug/l	25.0	ND	95	61-138	1	33	
Vinyl Acetate	24.5	1.0	ug/l	25.0	ND	98	50-150	3	23	
Vinyl chloride	25.6	0.50	ug/l	25.0	ND	102	58-139	5	21	
Xylenes, Total	49.0	1.5	ug/l	50.0	ND	98	70-130	2	20	
Surrogate: Dibromofluoromethane	23.8		ug/l	25.0		95	70-130			
Surrogate: Toluene-d8	25.0		ug/l	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	26.6		ug/l	25.0		106	70-130			

TestAmerica Phoenix

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Attention: Chris Legg

Project ID: UPCO/3994003
Report Number: PUJ1701

Sampled: 10/27/11
Received: 10/27/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11K0041 Extracted: 11/01/11										
Blank Analyzed: 11/01/2011 (11K0041-BLK1)										
Perchlorate	ND	2.0	ug/l							
LCS Analyzed: 11/01/2011 (11K0041-BS1)										
Perchlorate	26.4	2.0	ug/l	25.0		106	85-115			
LCS Dup Analyzed: 11/01/2011 (11K0041-BSD1)										
Perchlorate	26.4	2.0	ug/l	25.0		106	85-115	0.06	15	
Duplicate Analyzed: 11/01/2011 (11K0041-DUP1)										
Perchlorate	25.5	2.0	ug/l		25.4			0.03	15	
Matrix Spike Analyzed: 11/01/2011 (11K0041-MS1)										
Perchlorate	28.2	2.0	ug/l	25.0	2.78	102	80-120			
Matrix Spike Dup Analyzed: 11/01/2011 (11K0041-MSD1)										
Perchlorate	28.4	2.0	ug/l	25.0	2.78	103	80-120	0.7	15	
Batch: 11K0141 Extracted: 11/03/11										
Blank Analyzed: 11/03/2011 (11K0141-BLK1)										
Perchlorate	ND	2.0	ug/l							
LCS Analyzed: 11/03/2011 (11K0141-BS1)										
Perchlorate	25.8	2.0	ug/l	25.0		103	85-115			
LCS Dup Analyzed: 11/03/2011 (11K0141-BSD1)										
Perchlorate	26.3	2.0	ug/l	25.0		105	85-115	2	15	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11K0141 Extracted: 11/03/11										
Duplicate Analyzed: 11/03/2011 (11K0141-DUP1)					Source: PUK0086-02					
Perchlorate	ND	2.0	ug/l		ND				15	
Matrix Spike Analyzed: 11/03/2011 (11K0141-MS1)					Source: PUJ1701-05RE1					
Perchlorate	230	10	ug/l	125	90.8	111	80-120			
Matrix Spike Dup Analyzed: 11/03/2011 (11K0141-MSD1)					Source: PUJ1701-05RE1					
Perchlorate	230	10	ug/l	125	90.8	111	80-120	0.2	15	

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Report Number: PUJ1701

Sampled: 10/27/11
Received: 10/27/11

METHOD BLANK/QC DATA

1,4-DIOXANE BY GCMS - SINGLE ION MONITORING (SIM)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11J3910 Extracted: 10/30/11										
Blank Analyzed: 10/30/2011 (11J3910-BLK1)										
1,4-Dioxane	ND	2.0	ug/l							
Surrogate: Dibromofluoromethane	1.06		ug/l	1.00		106	80-120			
LCS Analyzed: 10/30/2011 (11J3910-BS1)										
1,4-Dioxane	9.32	2.0	ug/l	10.0		93	70-125			
Surrogate: Dibromofluoromethane	1.05		ug/l	1.00		105	80-120			
LCS Dup Analyzed: 10/30/2011 (11J3910-BSD1)										
1,4-Dioxane	10.4	2.0	ug/l	10.0		104	70-125	11	30	
Surrogate: Dibromofluoromethane	1.04		ug/l	1.00		104	80-120			
Matrix Spike Analyzed: 10/30/2011 (11J3910-MS1) Source: IUJ3102-05										
1,4-Dioxane	9.46	2.0	ug/l	10.0	ND	95	70-130			
Surrogate: Dibromofluoromethane	1.06		ug/l	1.00		106	80-120			
Matrix Spike Analyzed: 10/31/2011 (11J3910-MS2) Source: IUJ3377-03										
1,4-Dioxane	9.26	2.0	ug/l	10.0	ND	93	70-130			
Surrogate: Dibromofluoromethane	1.08		ug/l	1.00		108	80-120			
Matrix Spike Dup Analyzed: 10/31/2011 (11J3910-MSD1) Source: IUJ3102-05										
1,4-Dioxane	9.51	2.0	ug/l	10.0	ND	95	70-130	0.5	30	
Surrogate: Dibromofluoromethane	1.06		ug/l	1.00		106	80-120			
Matrix Spike Dup Analyzed: 10/31/2011 (11J3910-MSD2) Source: IUJ3377-03										
1,4-Dioxane	8.30	2.0	ug/l	10.0	ND	83	70-130	11	30	
Surrogate: Dibromofluoromethane	1.07		ug/l	1.00		107	80-120			

TestAmerica Phoenix

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Sampled: 10/27/11

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DATA QUALIFIERS AND DEFINITIONS

- B1** Target analyte detected in method blank at or above the method reporting limit.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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PUJ1701 <Page 25 of 26>

ARCADIS U.S., Inc. - Phoenix
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Project ID: UPCO/3994003

Report Number: PUJ1701

Sampled: 10/27/11

Received: 10/27/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 314.0	Water		X
EPA 8260B	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

Subcontracted Laboratories

TestAmerica - Irvine, CA NELAC Cert #01108CA, California Cert #1197, Arizona Cert #AZ0671, Nevada Cert #CA72-2002-63, ORELAP Cert #Text1

17461 Derian Ave., Suite 100 - Irvine, CA 92614

Method Performed: EPA 8260B-SIM

Samples: PUJ1701-01, PUJ1701-03, PUJ1701-05, PUJ1701-06

TestAmerica Phoenix

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THE LEADER IN ENVIRONMENTAL TESTING

TAL-0013-550 (12/08)

Client Name/Address: ARCADIS 4646 E. Van Buren St. Phoenix AZ		Project/PO Number: UPLC/ 3994003					Analysis Required														
Project Manager: Chris Legg		Phone Number:					Perchlorate	VOC 8260B	1,4 dioxene 8260B												
Sampler: Nick Olivier		Fax Number:								Special Instructions											
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives															
MW-2	WT	Poly VOA	6	10/27	0936	Ø HCL	X	X	X												PUS1701-01 -02 -03 -04 -05 -06
MW-6		Poly	1		0735	Ø	X														
MW-1		Poly VOA	6		0845	Ø HCL	X	X	X												
MW-19		Poly	1		1105	Ø	X														
FD102711		Poly VOA	6			Ø HCL	X	X	X												
TB102711		VOA	2			HCL		X	X												
Temp Blank	WT	Poly	1																		
Relinquished By: Nick Olivier		Date/Time: 10/27/11 1345		Received By:		Date/Time:		Turnaround Time: (Check)													
Relinquished By:		Date/Time:		Received By:		Date/Time:		same day _____ 72 hours _____ 24 hours _____ 5 days _____ 48 hours _____ normal <input checked="" type="checkbox"/>													
Relinquished By:		Date/Time:		Received in Lab By:		Date/Time: 10/27/11 1345		Sample Integrity: (Check)													
Relinquished By:		Date/Time:		Received in Lab By:		Date/Time:		intact <input checked="" type="checkbox"/> on ice <input checked="" type="checkbox"/> 33cc													

Note: By relinquishing samples to TestAmerica, 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.

March 14, 2011

LABORATORY REPORT

Client:

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attn: Gregory Guimond

Work Order: PUB1539
Project Name: UPCO-3994011/TO15
Project Number: UPCO-3994011/TO15
Date Received: 02/24/11
Final Report: 03/14/11 15:23

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

The Chain of Custody, 1 page, is included and is an integral part of this report. This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE:

- SAMPLE RECEIPT:** Samples were received intact, at 20°C and with chain of custody documentation.
- HOLDING TIMES:** All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.
- PRESERVATION:** Samples requiring preservation were verified prior to sample analysis.
- QA/QC CRITERIA:** All analyses met method criteria, except as noted in the report with data qualifiers.
- N1 TO15:** The second source calibration verification standard analyzed immediately following the calibration recovered high and outside of acceptance limits for 1,2-dichlorobenzene. All associated samples are non-detect for this compound and therefore the data should not be impacted.
- COMMENTS:** No significant observations were made.
- SUBCONTRACTED:** Refer to the last page for specific subcontract laboratory information included in this report.

Approved By:



Carlene McCutcheon
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Gregory Guimond

Work Order: PUB1539
Project: UPCO-3994011/TO15
Project Number: UPCO-3994011/TO15

Received: 02/24/11
Reported: 03/14/11 15:23

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

SVMW-1-30-40	PUB1539-01	02/24/11	S/N 1288 1L Canister
SVMW-1-90-100	PUB1539-02	02/24/11	S/N 1427 0.4L Canister
SVMW-1-140-150	PUB1539-03	02/24/11	S/N 0714 1L Canister
SVMW-1-190-200	PUB1539-04	02/24/11	S/N 0744 1L Canister

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Gregory Guimond

Work Order: PUB1539
Project: UPCO-3994011/TO15
Project Number: UPCO-3994011/TO15

Received: 02/24/11
Reported: 03/14/11 15:23

ANALYTICAL REPORT

	<u>ppbv</u>		<u>ug/m3</u>		<u>Data</u>		<u>Date</u> Analyzed	<u>Analyst</u>	<u>Method</u>	
	Result	RL	Result	RL	Qualifiers	Dilution				
Volatile Organic Compounds by EPA TO-15										
Sample ID: PUB1539-01 (SVMW-1-30-40)			Sampling Time: min				Sampled: 02/24/11 08:51			
1,1,1-Trichloroethane	<0.50	0.50	<2.73	2.73		1.0	3/3/2011	bb	EPA TO15	
1,1,2,2-Tetrachloroethane	<0.50	0.50	<3.43	3.43		1.0	3/3/2011	bb	EPA TO15	
1,1,2-Trichloroethane	<0.50	0.50	<2.73	2.73		1.0	3/3/2011	bb	EPA TO15	
1,1-Dichloroethane	5.7	0.50	23	2.02		1.0	3/3/2011	bb	EPA TO15	
1,2,4-Trichlorobenzene	<2.0	2.0	<14.8	14.8		1.0	3/3/2011	bb	EPA TO15	
1,2,4-Trimethylbenzene	<0.50	0.50	<2.46	2.46		1.0	3/3/2011	bb	EPA TO15	
1,2-Dibromoethane (EDB)	<1.0	1.0	<7.68	7.68		1.0	3/3/2011	bb	EPA TO15	
1,2-Dichlorobenzene	<0.50	0.50	<3.01	3.01	N1	1.0	3/3/2011	bb	EPA TO15	
1,2-Dichloroethane	<0.50	0.50	<2.02	2.02		1.0	3/3/2011	bb	EPA TO15	
1,2-Dichloropropane	<0.50	0.50	<2.31	2.31		1.0	3/3/2011	bb	EPA TO15	
1,3,5-Trimethylbenzene	<0.50	0.50	<2.46	2.46		1.0	3/3/2011	bb	EPA TO15	
1,3-Butadiene	<0.50	0.50	<1.11	1.11		1.0	3/3/2011	bb	EPA TO15	
1,3-Dichlorobenzene	<0.50	0.50	<3.01	3.01		1.0	3/3/2011	bb	EPA TO15	
1,4-Dichlorobenzene	<0.50	0.50	<3.01	3.01		1.0	3/3/2011	bb	EPA TO15	
2,2,4-Trimethylpentane	<0.50	0.50	<2.34	2.34		1.0	3/3/2011	bb	EPA TO15	
2-Butanone (MEK)	27	1.0	80	2.95		1.0	3/3/2011	bb	EPA TO15	
2-Hexanone	1.4	1.0	5.7	4.10		1.0	3/3/2011	bb	EPA TO15	
2-Propanol	<2.0	2.0	<4.92	4.92		1.0	3/3/2011	bb	EPA TO15	
4-Ethyltoluene	<0.50	0.50	<2.46	2.46		1.0	3/3/2011	bb	EPA TO15	
4-Methyl-2-pentanone (MIBK)	<1.0	1.0	<4.10	4.10		1.0	3/3/2011	bb	EPA TO15	
Allyl Chloride	<0.50	0.50	<1.56	1.56		1.0	3/3/2011	bb	EPA TO15	
Benzene	<0.50	0.50	<1.60	1.60		1.0	3/3/2011	bb	EPA TO15	
Benzyl Chloride	<2.0	2.0	<10.4	10.4		1.0	3/3/2011	bb	EPA TO15	
Bromodichloromethane	<0.50	0.50	<3.35	3.35		1.0	3/3/2011	bb	EPA TO15	
Bromoethene(Vinyl Bromide)	<0.50	0.50	<2.19	2.19		1.0	3/3/2011	bb	EPA TO15	
Bromoform	<0.50	0.50	<5.17	5.17		1.0	3/3/2011	bb	EPA TO15	
Bromomethane	<0.50	0.50	<1.94	1.94		1.0	3/3/2011	bb	EPA TO15	
Carbon disulfide	0.50	0.50	1.6	1.56		1.0	3/3/2011	bb	EPA TO15	
Carbon tetrachloride	<0.50	0.50	<3.15	3.15		1.0	3/3/2011	bb	EPA TO15	
Chlorobenzene	<0.50	0.50	<2.30	2.30		1.0	3/3/2011	bb	EPA TO15	
Chloroethane	<0.50	0.50	<1.32	1.32		1.0	3/3/2011	bb	EPA TO15	
Chloroform	1.5	0.50	7.3	2.44		1.0	3/3/2011	bb	EPA TO15	
Chloromethane	<0.50	0.50	<1.03	1.03		1.0	3/3/2011	bb	EPA TO15	
cis-1,2-Dichloroethene	<0.50	0.50	<1.98	1.98		1.0	3/3/2011	bb	EPA TO15	
cis-1,3-Dichloropropene	<0.50	0.50	<2.27	2.27		1.0	3/3/2011	bb	EPA TO15	
Cyclohexane	<0.50	0.50	<1.72	1.72		1.0	3/3/2011	bb	EPA TO15	
Dibromochloromethane	<0.50	0.50	<4.26	4.26		1.0	3/3/2011	bb	EPA TO15	
Dichlorodifluoromethane	1.7	0.50	8.4	2.47		1.0	3/3/2011	bb	EPA TO15	
Dichlorotetrafluoroethane(F-114)	<0.50	0.50	<3.50	3.50		1.0	3/3/2011	bb	EPA TO15	
Ethyl Acetate	<0.50	0.50	<1.80	1.80		1.0	3/3/2011	bb	EPA TO15	
Ethylbenzene	<0.50	0.50	<2.17	2.17		1.0	3/3/2011	bb	EPA TO15	
Freon 113	1.3	0.50	10	3.83		1.0	3/3/2011	bb	EPA TO15	
Heptane	<0.50	0.50	<2.05	2.05		1.0	3/3/2011	bb	EPA TO15	

ARCADIS U.S., Inc. - Phoenix
 4646 E Van Buren, Ste. 400
 Phoenix, AZ 85008
 Gregory Guimond

Work Order: PUB1539
 Project: UPCO-3994011/TO15
 Project Number: UPCO-3994011/TO15

Received: 02/24/11
 Reported: 03/14/11 15:23

	<u>ppbv</u>		<u>ug/m3</u>		Data Qualifiers	Dilution	Date Analyzed	Analyst	Method
	Result	RL	Result	RL					
Volatile Organic Compounds by EPA TO-15									
Sample ID: PUB1539-01 (SVMW-1-30-40) - cont.	Sampling Time: min				Sampled: 02/24/11 08:51				
Hexachlorobutadiene	<1.0	1.0	<10.7	10.7		1.0	3/3/2011	bb	EPA TO15
Hexane	<0.50	0.50	<1.76	1.76		1.0	3/3/2011	bb	EPA TO15
Isopropylbenzene	<0.50	0.50	<2.46	2.46		1.0	3/3/2011	bb	EPA TO15
m,p-Xylenes	<1.0	1.0	<4.34	4.34		1.0	3/3/2011	bb	EPA TO15
Methylene Chloride	1.0	0.50	3.5	1.74		1.0	3/3/2011	bb	EPA TO15
Methyl-tert-butyl Ether (MTBE)	<1.0	1.0	<3.61	3.61		1.0	3/3/2011	bb	EPA TO15
Naphthalene	<5.0	5.0	<26.2	26.2		1.0	3/3/2011	bb	EPA TO15
n-Butylbenzene	<0.50	0.50	<2.74	2.74		1.0	3/3/2011	bb	EPA TO15
n-Nonane (C9)	<0.50	0.50	<2.62	2.62		1.0	3/3/2011	bb	EPA TO15
n-Octane (C8)	<0.50	0.50	<2.34	2.34		1.0	3/3/2011	bb	EPA TO15
n-Propylbenzene	<0.50	0.50	<2.46	2.46		1.0	3/3/2011	bb	EPA TO15
o-Xylene	<0.50	0.50	<2.17	2.17		1.0	3/3/2011	bb	EPA TO15
sec-Butylbenzene	<0.50	0.50	<2.74	2.74		1.0	3/3/2011	bb	EPA TO15
Styrene	<0.50	0.50	<2.13	2.13		1.0	3/3/2011	bb	EPA TO15
tert-Butylbenzene	<0.50	0.50	<2.74	2.74		1.0	3/3/2011	bb	EPA TO15
Tetrahydrofuran	<2.0	2.0	<5.90	5.90		1.0	3/3/2011	bb	EPA TO15
Toluene	<0.50	0.50	<1.88	1.88		1.0	3/3/2011	bb	EPA TO15
trans-1,2-Dichloroethene	<0.50	0.50	<1.98	1.98		1.0	3/3/2011	bb	EPA TO15
trans-1,3-Dichloropropene	<0.50	0.50	<2.27	2.27		1.0	3/3/2011	bb	EPA TO15
Trichloroethene	9.3	0.50	50	2.69		1.0	3/3/2011	bb	EPA TO15
Trichlorofluoromethane	<0.50	0.50	<2.81	2.81		1.0	3/3/2011	bb	EPA TO15
Vinyl Acetate	<0.50	0.50	<1.76	1.76		1.0	3/3/2011	bb	EPA TO15
Vinyl chloride	<0.50	0.50	<1.28	1.28		1.0	3/3/2011	bb	EPA TO15
Surrogate: 4-Bromofluorobenzene	85 %		Limit 70-130						

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 Phoenix, AZ 85008
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Received: 02/24/11
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	<u>ppbv</u>		<u>ug/m3</u>		Data Qualifiers	Dilution	Date Analyzed	Analyst	Method
	Result	RL	Result	RL					
Volatile Organic Compounds by EPA TO-15									
Sample ID: PUB1539-01RE1 (SVMW-1-30-40)					Sampling Time: min		Sampled: 02/24/11 08:51		
Acetone	76	25	180	59.4		5.0	3/4/2011	bb	EPA TO15
Surrogate: 4-Bromofluorobenzene	93 %		Limit 70-130						

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	<u>ppbv</u>		<u>ug/m3</u>		Data Qualifiers	Dilution	Date Analyzed	Analyst	Method
	Result	RL	Result	RL					
Volatile Organic Compounds by EPA TO-15									
Sample ID: PUB1539-01RE2 (SVMW-1-30-40)					Sampling Time: min		Sampled: 02/24/11 08:51		
1,1-Dichloroethene	460	25	1800	99.1	50		3/4/2011	bb	EPA TO15
Propene	70	25	120	43.0	50		3/4/2011	bb	EPA TO15
Tetrachloroethene	150	25	1000	170	50		3/4/2011	bb	EPA TO15
Surrogate: 4-Bromofluorobenzene	86 %		Limit 70-130						

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	<u>ppbv</u>		<u>ug/m3</u>		<u>Data</u>		<u>Date</u>	<u>Analyst</u>	<u>Method</u>	
	<u>Result</u>	<u>RL</u>	<u>Result</u>	<u>RL</u>	<u>Qualifiers</u>	<u>Dilution</u>	<u>Analyzed</u>			
Volatile Organic Compounds by EPA TO-15										
Sample ID: PUB1539-02 (SVMW-1-90-100)			Sampling Time: min				Sampled: 02/24/11 09:20			
1,1,1-Trichloroethane	<0.50	0.50	<2.73	2.73		1.0	3/3/2011	bb	EPA TO15	
1,1,2,2-Tetrachloroethane	<0.50	0.50	<3.43	3.43		1.0	3/3/2011	bb	EPA TO15	
1,1,2-Trichloroethane	<0.50	0.50	<2.73	2.73		1.0	3/3/2011	bb	EPA TO15	
1,1-Dichloroethane	26	0.50	110	2.02		1.0	3/3/2011	bb	EPA TO15	
1,2,4-Trichlorobenzene	<2.0	2.0	<14.8	14.8		1.0	3/3/2011	bb	EPA TO15	
1,2,4-Trimethylbenzene	<0.50	0.50	<2.46	2.46		1.0	3/3/2011	bb	EPA TO15	
1,2-Dibromoethane (EDB)	<1.0	1.0	<7.68	7.68		1.0	3/3/2011	bb	EPA TO15	
1,2-Dichlorobenzene	<0.50	0.50	<3.01	3.01	N1	1.0	3/3/2011	bb	EPA TO15	
1,2-Dichloroethane	<0.50	0.50	<2.02	2.02		1.0	3/3/2011	bb	EPA TO15	
1,2-Dichloropropane	<0.50	0.50	<2.31	2.31		1.0	3/3/2011	bb	EPA TO15	
1,3,5-Trimethylbenzene	<0.50	0.50	<2.46	2.46		1.0	3/3/2011	bb	EPA TO15	
1,3-Butadiene	<0.50	0.50	<1.11	1.11		1.0	3/3/2011	bb	EPA TO15	
1,3-Dichlorobenzene	<0.50	0.50	<3.01	3.01		1.0	3/3/2011	bb	EPA TO15	
1,4-Dichlorobenzene	<0.50	0.50	<3.01	3.01		1.0	3/3/2011	bb	EPA TO15	
2,2,4-Trimethylpentane	<0.50	0.50	<2.34	2.34		1.0	3/3/2011	bb	EPA TO15	
2-Butanone (MEK)	10	1.0	30	2.95		1.0	3/3/2011	bb	EPA TO15	
2-Hexanone	1.0	1.0	4.1	4.10		1.0	3/3/2011	bb	EPA TO15	
2-Propanol	<2.0	2.0	<4.92	4.92		1.0	3/3/2011	bb	EPA TO15	
4-Ethyltoluene	<0.50	0.50	<2.46	2.46		1.0	3/3/2011	bb	EPA TO15	
4-Methyl-2-pentanone (MIBK)	<1.0	1.0	<4.10	4.10		1.0	3/3/2011	bb	EPA TO15	
Acetone	25	5.0	59	11.9		1.0	3/3/2011	bb	EPA TO15	
Allyl Chloride	<0.50	0.50	<1.56	1.56		1.0	3/3/2011	bb	EPA TO15	
Benzene	1.8	0.50	5.8	1.60		1.0	3/3/2011	bb	EPA TO15	
Benzyl Chloride	<2.0	2.0	<10.4	10.4		1.0	3/3/2011	bb	EPA TO15	
Bromodichloromethane	<0.50	0.50	<3.35	3.35		1.0	3/3/2011	bb	EPA TO15	
Bromoethene(Vinyl Bromide)	<0.50	0.50	<2.19	2.19		1.0	3/3/2011	bb	EPA TO15	
Bromoform	<0.50	0.50	<5.17	5.17		1.0	3/3/2011	bb	EPA TO15	
Bromomethane	<0.50	0.50	<1.94	1.94		1.0	3/3/2011	bb	EPA TO15	
Carbon disulfide	1.4	0.50	4.4	1.56		1.0	3/3/2011	bb	EPA TO15	
Carbon tetrachloride	0.84	0.50	5.3	3.15		1.0	3/3/2011	bb	EPA TO15	
Chlorobenzene	<0.50	0.50	<2.30	2.30		1.0	3/3/2011	bb	EPA TO15	
Chloroethane	<0.50	0.50	<1.32	1.32		1.0	3/3/2011	bb	EPA TO15	
Chloroform	2.6	0.50	13	2.44		1.0	3/3/2011	bb	EPA TO15	
Chloromethane	0.90	0.50	1.9	1.03		1.0	3/3/2011	bb	EPA TO15	
cis-1,2-Dichloroethene	<0.50	0.50	<1.98	1.98		1.0	3/3/2011	bb	EPA TO15	
cis-1,3-Dichloropropene	<0.50	0.50	<2.27	2.27		1.0	3/3/2011	bb	EPA TO15	
Cyclohexane	0.76	0.50	2.6	1.72		1.0	3/3/2011	bb	EPA TO15	
Dibromochloromethane	<0.50	0.50	<4.26	4.26		1.0	3/3/2011	bb	EPA TO15	
Dichlorodifluoromethane	6.4	0.50	32	2.47		1.0	3/3/2011	bb	EPA TO15	
Dichlorotetrafluoroethane(F-114)	<0.50	0.50	<3.50	3.50		1.0	3/3/2011	bb	EPA TO15	
Ethyl Acetate	<0.50	0.50	<1.80	1.80		1.0	3/3/2011	bb	EPA TO15	
Ethylbenzene	<0.50	0.50	<2.17	2.17		1.0	3/3/2011	bb	EPA TO15	
Freon 113	5.7	0.50	44	3.83		1.0	3/3/2011	bb	EPA TO15	
Heptane	<0.50	0.50	<2.05	2.05		1.0	3/3/2011	bb	EPA TO15	
Hexachlorobutadiene	<1.0	1.0	<10.7	10.7		1.0	3/3/2011	bb	EPA TO15	

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Received: 02/24/11
 Reported: 03/14/11 15:23

	<u>ppbv</u>		<u>ug/m3</u>		Data Qualifiers	Dilution	Date Analyzed	Analyst	Method
	Result	RL	Result	RL					
Volatile Organic Compounds by EPA TO-15									
Sample ID: PUB1539-02 (SVMW-1-90-100) - cont.			Sampling Time: min			Sampled: 02/24/11 09:20			
Hexane	0.75	0.50	2.6	1.76	1.0		3/3/2011	bb	EPA TO15
Isopropylbenzene	<0.50	0.50	<2.46	2.46	1.0		3/3/2011	bb	EPA TO15
m,p-Xylenes	<1.0	1.0	<4.34	4.34	1.0		3/3/2011	bb	EPA TO15
Methylene Chloride	3.0	0.50	10	1.74	1.0		3/3/2011	bb	EPA TO15
Methyl-tert-butyl Ether (MTBE)	<1.0	1.0	<3.61	3.61	1.0		3/3/2011	bb	EPA TO15
Naphthalene	<5.0	5.0	<26.2	26.2	1.0		3/3/2011	bb	EPA TO15
n-Butylbenzene	<0.50	0.50	<2.74	2.74	1.0		3/3/2011	bb	EPA TO15
n-Nonane (C9)	<0.50	0.50	<2.62	2.62	1.0		3/3/2011	bb	EPA TO15
n-Octane (C8)	<0.50	0.50	<2.34	2.34	1.0		3/3/2011	bb	EPA TO15
n-Propylbenzene	<0.50	0.50	<2.46	2.46	1.0		3/3/2011	bb	EPA TO15
o-Xylene	<0.50	0.50	<2.17	2.17	1.0		3/3/2011	bb	EPA TO15
sec-Butylbenzene	<0.50	0.50	<2.74	2.74	1.0		3/3/2011	bb	EPA TO15
Styrene	<0.50	0.50	<2.13	2.13	1.0		3/3/2011	bb	EPA TO15
tert-Butylbenzene	<0.50	0.50	<2.74	2.74	1.0		3/3/2011	bb	EPA TO15
Tetrachloroethene	48	0.50	330	3.39	1.0		3/3/2011	bb	EPA TO15
Tetrahydrofuran	<2.0	2.0	<5.90	5.90	1.0		3/3/2011	bb	EPA TO15
Toluene	1.5	0.50	5.7	1.88	1.0		3/3/2011	bb	EPA TO15
trans-1,2-Dichloroethene	<0.50	0.50	<1.98	1.98	1.0		3/3/2011	bb	EPA TO15
trans-1,3-Dichloropropene	<0.50	0.50	<2.27	2.27	1.0		3/3/2011	bb	EPA TO15
Trichlorofluoromethane	<0.50	0.50	<2.81	2.81	1.0		3/3/2011	bb	EPA TO15
Vinyl Acetate	<0.50	0.50	<1.76	1.76	1.0		3/3/2011	bb	EPA TO15
Vinyl chloride	<0.50	0.50	<1.28	1.28	1.0		3/3/2011	bb	EPA TO15
Surrogate: 4-Bromofluorobenzene	83 %		Limit 70-130						

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Work Order: PUB1539
 Project: UPCO-3994011/TO15
 Project Number: UPCO-3994011/TO15

Received: 02/24/11
 Reported: 03/14/11 15:23

	<u>ppbv</u>		<u>ug/m3</u>		Data Qualifiers	Dilution	Date Analyzed	Analyst	Method
	Result	RL	Result	RL					
Volatile Organic Compounds by EPA TO-15									
Sample ID: PUB1539-02RE1 (SVMW-1-90-100)					Sampling Time: min		Sampled: 02/24/11 09:20		
Trichloroethene	60	2.5	320	13.4		5.0	3/4/2011	bb	EPA TO15
Surrogate: 4-Bromofluorobenzene	90 %		Limit 70-130						

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	<u>ppbv</u>		<u>ug/m3</u>		Data Qualifiers	Dilution	Date Analyzed	Analyst	Method
	Result	RL	Result	RL					
Volatile Organic Compounds by EPA TO-15									
Sample ID: PUB1539-02RE2 (SVMW-1-90-100)					Sampling Time: min		Sampled: 02/24/11 09:20		
Propene	690	25	1200	43.0		50	3/4/2011	bb	EPA TO15
Surrogate: 4-Bromofluorobenzene	86 %		Limit 70-130						

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Received: 02/24/11
 Reported: 03/14/11 15:23

	<u>ppbv</u>		<u>ug/m3</u>		Data Qualifiers	Dilution	Date Analyzed	Analyst	Method
	Result	RL	Result	RL					
Volatile Organic Compounds by EPA TO-15									
Sample ID: PUB1539-02RE3 (SVMW-1-90-100)					Sampling Time: min		Sampled: 02/24/11 09:20		
1,1-Dichloroethene	5300	250	21000	991		500	3/4/2011	bb	EPA TO15
Surrogate: 4-Bromofluorobenzene	84 %		Limit 70-130						

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Received: 02/24/11
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	<u>ppbv</u>		<u>ug/m3</u>		<u>Data</u>		<u>Date</u>	<u>Analyst</u>	<u>Method</u>	
	<u>Result</u>	<u>RL</u>	<u>Result</u>	<u>RL</u>	<u>Qualifiers</u>	<u>Dilution</u>	<u>Analyzed</u>			
Volatile Organic Compounds by EPA TO-15										
Sample ID: PUB1539-03 (SVMW-1-140-150)			Sampling Time: min				Sampled: 02/24/11 09:42			
1,1,1-Trichloroethane	<0.50	0.50	<2.73	2.73		1.0	3/3/2011	bb	EPA TO15	
1,1,2,2-Tetrachloroethane	<0.50	0.50	<3.43	3.43		1.0	3/3/2011	bb	EPA TO15	
1,1,2-Trichloroethane	<0.50	0.50	<2.73	2.73		1.0	3/3/2011	bb	EPA TO15	
1,1-Dichloroethane	<0.50	0.50	<2.02	2.02		1.0	3/3/2011	bb	EPA TO15	
1,2,4-Trichlorobenzene	<2.0	2.0	<14.8	14.8		1.0	3/3/2011	bb	EPA TO15	
1,2,4-Trimethylbenzene	<0.50	0.50	<2.46	2.46		1.0	3/3/2011	bb	EPA TO15	
1,2-Dibromoethane (EDB)	<1.0	1.0	<7.68	7.68		1.0	3/3/2011	bb	EPA TO15	
1,2-Dichlorobenzene	<0.50	0.50	<3.01	3.01	N1	1.0	3/3/2011	bb	EPA TO15	
1,2-Dichloroethane	<0.50	0.50	<2.02	2.02		1.0	3/3/2011	bb	EPA TO15	
1,2-Dichloropropane	<0.50	0.50	<2.31	2.31		1.0	3/3/2011	bb	EPA TO15	
1,3,5-Trimethylbenzene	<0.50	0.50	<2.46	2.46		1.0	3/3/2011	bb	EPA TO15	
1,3-Butadiene	<0.50	0.50	<1.11	1.11		1.0	3/3/2011	bb	EPA TO15	
1,3-Dichlorobenzene	<0.50	0.50	<3.01	3.01		1.0	3/3/2011	bb	EPA TO15	
1,4-Dichlorobenzene	<0.50	0.50	<3.01	3.01		1.0	3/3/2011	bb	EPA TO15	
2,2,4-Trimethylpentane	<0.50	0.50	<2.34	2.34		1.0	3/3/2011	bb	EPA TO15	
2-Butanone (MEK)	9.6	1.0	28	2.95		1.0	3/3/2011	bb	EPA TO15	
2-Hexanone	<1.0	1.0	<4.10	4.10		1.0	3/3/2011	bb	EPA TO15	
2-Propanol	<2.0	2.0	<4.92	4.92		1.0	3/3/2011	bb	EPA TO15	
4-Ethyltoluene	<0.50	0.50	<2.46	2.46		1.0	3/3/2011	bb	EPA TO15	
4-Methyl-2-pentanone (MIBK)	<1.0	1.0	<4.10	4.10		1.0	3/3/2011	bb	EPA TO15	
Acetone	46	5.0	110	11.9		1.0	3/3/2011	bb	EPA TO15	
Allyl Chloride	<0.50	0.50	<1.56	1.56		1.0	3/3/2011	bb	EPA TO15	
Benzene	<0.50	0.50	<1.60	1.60		1.0	3/3/2011	bb	EPA TO15	
Benzyl Chloride	<2.0	2.0	<10.4	10.4		1.0	3/3/2011	bb	EPA TO15	
Bromodichloromethane	<0.50	0.50	<3.35	3.35		1.0	3/3/2011	bb	EPA TO15	
Bromoethene(Vinyl Bromide)	<0.50	0.50	<2.19	2.19		1.0	3/3/2011	bb	EPA TO15	
Bromoform	<0.50	0.50	<5.17	5.17		1.0	3/3/2011	bb	EPA TO15	
Bromomethane	<0.50	0.50	<1.94	1.94		1.0	3/3/2011	bb	EPA TO15	
Carbon disulfide	0.58	0.50	1.8	1.56		1.0	3/3/2011	bb	EPA TO15	
Carbon tetrachloride	<0.50	0.50	<3.15	3.15		1.0	3/3/2011	bb	EPA TO15	
Chlorobenzene	<0.50	0.50	<2.30	2.30		1.0	3/3/2011	bb	EPA TO15	
Chloroethane	<0.50	0.50	<1.32	1.32		1.0	3/3/2011	bb	EPA TO15	
Chloroform	<0.50	0.50	<2.44	2.44		1.0	3/3/2011	bb	EPA TO15	
Chloromethane	<0.50	0.50	<1.03	1.03		1.0	3/3/2011	bb	EPA TO15	
cis-1,2-Dichloroethene	<0.50	0.50	<1.98	1.98		1.0	3/3/2011	bb	EPA TO15	
cis-1,3-Dichloropropene	<0.50	0.50	<2.27	2.27		1.0	3/3/2011	bb	EPA TO15	
Cyclohexane	<0.50	0.50	<1.72	1.72		1.0	3/3/2011	bb	EPA TO15	
Dibromochloromethane	<0.50	0.50	<4.26	4.26		1.0	3/3/2011	bb	EPA TO15	
Dichlorodifluoromethane	<0.50	0.50	<2.47	2.47		1.0	3/3/2011	bb	EPA TO15	
Dichlorotetrafluoroethane(F-114)	<0.50	0.50	<3.50	3.50		1.0	3/3/2011	bb	EPA TO15	
Ethyl Acetate	<0.50	0.50	<1.80	1.80		1.0	3/3/2011	bb	EPA TO15	
Ethylbenzene	<0.50	0.50	<2.17	2.17		1.0	3/3/2011	bb	EPA TO15	
Freon 113	<0.50	0.50	<3.83	3.83		1.0	3/3/2011	bb	EPA TO15	
Heptane	<0.50	0.50	<2.05	2.05		1.0	3/3/2011	bb	EPA TO15	
Hexachlorobutadiene	<1.0	1.0	<10.7	10.7		1.0	3/3/2011	bb	EPA TO15	

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Received: 02/24/11
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	<u>ppbv</u>		<u>ug/m3</u>		Data Qualifiers	Dilution	Date Analyzed	Analyst	Method
	Result	RL	Result	RL					
Volatile Organic Compounds by EPA TO-15									
Sample ID: PUB1539-03 (SVMW-1-140-150) - cont.			Sampling Time: min			Sampled: 02/24/11 09:42			
Hexane	<0.50	0.50	<1.76	1.76		1.0	3/3/2011	bb	EPA TO15
Isopropylbenzene	<0.50	0.50	<2.46	2.46		1.0	3/3/2011	bb	EPA TO15
m,p-Xylenes	<1.0	1.0	<4.34	4.34		1.0	3/3/2011	bb	EPA TO15
Methylene Chloride	<0.50	0.50	<1.74	1.74		1.0	3/3/2011	bb	EPA TO15
Methyl-tert-butyl Ether (MTBE)	<1.0	1.0	<3.61	3.61		1.0	3/3/2011	bb	EPA TO15
Naphthalene	<5.0	5.0	<26.2	26.2		1.0	3/3/2011	bb	EPA TO15
n-Butylbenzene	<0.50	0.50	<2.74	2.74		1.0	3/3/2011	bb	EPA TO15
n-Nonane (C9)	<0.50	0.50	<2.62	2.62		1.0	3/3/2011	bb	EPA TO15
n-Octane (C8)	<0.50	0.50	<2.34	2.34		1.0	3/3/2011	bb	EPA TO15
n-Propylbenzene	<0.50	0.50	<2.46	2.46		1.0	3/3/2011	bb	EPA TO15
o-Xylene	<0.50	0.50	<2.17	2.17		1.0	3/3/2011	bb	EPA TO15
Propene	15	0.50	26	0.861		1.0	3/3/2011	bb	EPA TO15
sec-Butylbenzene	<0.50	0.50	<2.74	2.74		1.0	3/3/2011	bb	EPA TO15
Styrene	<0.50	0.50	<2.13	2.13		1.0	3/3/2011	bb	EPA TO15
tert-Butylbenzene	<0.50	0.50	<2.74	2.74		1.0	3/3/2011	bb	EPA TO15
Tetrachloroethene	17	0.50	120	3.39		1.0	3/3/2011	bb	EPA TO15
Tetrahydrofuran	<2.0	2.0	<5.90	5.90		1.0	3/3/2011	bb	EPA TO15
Toluene	<0.50	0.50	<1.88	1.88		1.0	3/3/2011	bb	EPA TO15
trans-1,2-Dichloroethene	<0.50	0.50	<1.98	1.98		1.0	3/3/2011	bb	EPA TO15
trans-1,3-Dichloropropene	<0.50	0.50	<2.27	2.27		1.0	3/3/2011	bb	EPA TO15
Trichloroethene	0.67	0.50	3.6	2.69		1.0	3/3/2011	bb	EPA TO15
Trichlorofluoromethane	<0.50	0.50	<2.81	2.81		1.0	3/3/2011	bb	EPA TO15
Vinyl Acetate	<0.50	0.50	<1.76	1.76		1.0	3/3/2011	bb	EPA TO15
Vinyl chloride	<0.50	0.50	<1.28	1.28		1.0	3/3/2011	bb	EPA TO15
Surrogate: 4-Bromofluorobenzene	88 %		Limit 70-130						

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Received: 02/24/11
 Reported: 03/14/11 15:23

	<u>ppbv</u>		<u>ug/m3</u>		Data Qualifiers	Dilution	Date Analyzed	Analyst	Method
	Result	RL	Result	RL					
Volatile Organic Compounds by EPA TO-15									
Sample ID: PUB1539-03RE1 (SVMW-1-140-150)					Sampling Time: min		Sampled: 02/24/11 09:42		
1,1-Dichloroethene	47	2.5	190	9.91		5.0	3/4/2011	bb	EPA TO15
Surrogate: 4-Bromofluorobenzene	92 %		Limit 70-130						

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Received: 02/24/11
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	<u>ppbv</u>		<u>ug/m3</u>		<u>Data</u>		<u>Date</u>	<u>Analyst</u>	<u>Method</u>	
	<u>Result</u>	<u>RL</u>	<u>Result</u>	<u>RL</u>	<u>Qualifiers</u>	<u>Dilution</u>	<u>Analyzed</u>			
Volatile Organic Compounds by EPA TO-15										
Sample ID: PUB1539-04 (SVMW-1-190-200)			Sampling Time: min				Sampled: 02/24/11 10:10			
1,1,1-Trichloroethane	<0.50	0.50	<2.73	2.73		1.0	3/3/2011	bb	EPA TO15	
1,1,2,2-Tetrachloroethane	<0.50	0.50	<3.43	3.43		1.0	3/3/2011	bb	EPA TO15	
1,1,2-Trichloroethane	<0.50	0.50	<2.73	2.73		1.0	3/3/2011	bb	EPA TO15	
1,1-Dichloroethane	<0.50	0.50	<2.02	2.02		1.0	3/3/2011	bb	EPA TO15	
1,1-Dichloroethene	36	0.50	140	1.98		1.0	3/3/2011	bb	EPA TO15	
1,2,4-Trichlorobenzene	<2.0	2.0	<14.8	14.8		1.0	3/3/2011	bb	EPA TO15	
1,2,4-Trimethylbenzene	<0.50	0.50	<2.46	2.46		1.0	3/3/2011	bb	EPA TO15	
1,2-Dibromoethane (EDB)	<1.0	1.0	<7.68	7.68		1.0	3/3/2011	bb	EPA TO15	
1,2-Dichlorobenzene	<0.50	0.50	<3.01	3.01	N1	1.0	3/3/2011	bb	EPA TO15	
1,2-Dichloroethane	<0.50	0.50	<2.02	2.02		1.0	3/3/2011	bb	EPA TO15	
1,2-Dichloropropane	<0.50	0.50	<2.31	2.31		1.0	3/3/2011	bb	EPA TO15	
1,3,5-Trimethylbenzene	<0.50	0.50	<2.46	2.46		1.0	3/3/2011	bb	EPA TO15	
1,3-Butadiene	<0.50	0.50	<1.11	1.11		1.0	3/3/2011	bb	EPA TO15	
1,3-Dichlorobenzene	<0.50	0.50	<3.01	3.01		1.0	3/3/2011	bb	EPA TO15	
1,4-Dichlorobenzene	<0.50	0.50	<3.01	3.01		1.0	3/3/2011	bb	EPA TO15	
2,2,4-Trimethylpentane	<0.50	0.50	<2.34	2.34		1.0	3/3/2011	bb	EPA TO15	
2-Butanone (MEK)	11	1.0	32	2.95		1.0	3/3/2011	bb	EPA TO15	
2-Hexanone	<1.0	1.0	<4.10	4.10		1.0	3/3/2011	bb	EPA TO15	
2-Propanol	<2.0	2.0	<4.92	4.92		1.0	3/3/2011	bb	EPA TO15	
4-Ethyltoluene	<0.50	0.50	<2.46	2.46		1.0	3/3/2011	bb	EPA TO15	
4-Methyl-2-pentanone (MIBK)	<1.0	1.0	<4.10	4.10		1.0	3/3/2011	bb	EPA TO15	
Acetone	45	5.0	110	11.9		1.0	3/3/2011	bb	EPA TO15	
Allyl Chloride	<0.50	0.50	<1.56	1.56		1.0	3/3/2011	bb	EPA TO15	
Benzene	<0.50	0.50	<1.60	1.60		1.0	3/3/2011	bb	EPA TO15	
Benzyl Chloride	<2.0	2.0	<10.4	10.4		1.0	3/3/2011	bb	EPA TO15	
Bromodichloromethane	<0.50	0.50	<3.35	3.35		1.0	3/3/2011	bb	EPA TO15	
Bromoethene(Vinyl Bromide)	<0.50	0.50	<2.19	2.19		1.0	3/3/2011	bb	EPA TO15	
Bromoform	<0.50	0.50	<5.17	5.17		1.0	3/3/2011	bb	EPA TO15	
Bromomethane	<0.50	0.50	<1.94	1.94		1.0	3/3/2011	bb	EPA TO15	
Carbon disulfide	<0.50	0.50	<1.56	1.56		1.0	3/3/2011	bb	EPA TO15	
Carbon tetrachloride	<0.50	0.50	<3.15	3.15		1.0	3/3/2011	bb	EPA TO15	
Chlorobenzene	<0.50	0.50	<2.30	2.30		1.0	3/3/2011	bb	EPA TO15	
Chloroethane	<0.50	0.50	<1.32	1.32		1.0	3/3/2011	bb	EPA TO15	
Chloroform	<0.50	0.50	<2.44	2.44		1.0	3/3/2011	bb	EPA TO15	
Chloromethane	0.66	0.50	1.4	1.03		1.0	3/3/2011	bb	EPA TO15	
cis-1,2-Dichloroethene	<0.50	0.50	<1.98	1.98		1.0	3/3/2011	bb	EPA TO15	
cis-1,3-Dichloropropene	<0.50	0.50	<2.27	2.27		1.0	3/3/2011	bb	EPA TO15	
Cyclohexane	<0.50	0.50	<1.72	1.72		1.0	3/3/2011	bb	EPA TO15	
Dibromochloromethane	<0.50	0.50	<4.26	4.26		1.0	3/3/2011	bb	EPA TO15	
Dichlorodifluoromethane	<0.50	0.50	<2.47	2.47		1.0	3/3/2011	bb	EPA TO15	
Dichlorotetrafluoroethane(F-114)	<0.50	0.50	<3.50	3.50		1.0	3/3/2011	bb	EPA TO15	
Ethyl Acetate	<0.50	0.50	<1.80	1.80		1.0	3/3/2011	bb	EPA TO15	
Ethylbenzene	<0.50	0.50	<2.17	2.17		1.0	3/3/2011	bb	EPA TO15	
Freon 113	<0.50	0.50	<3.83	3.83		1.0	3/3/2011	bb	EPA TO15	
Heptane	<0.50	0.50	<2.05	2.05		1.0	3/3/2011	bb	EPA TO15	

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Received: 02/24/11
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	<u>ppbv</u>		<u>ug/m3</u>		<u>Data</u>		<u>Date</u>	<u>Analyst</u>	<u>Method</u>	
	<u>Result</u>	<u>RL</u>	<u>Result</u>	<u>RL</u>	<u>Qualifiers</u>	<u>Dilution</u>	<u>Analyzed</u>			
Volatile Organic Compounds by EPA TO-15										
Sample ID: PUB1539-04 (SVMW-1-190-200) - cont.	Sampling Time: min				Sampled: 02/24/11 10:10					
Hexachlorobutadiene	<1.0	1.0	<10.7	10.7		1.0	3/3/2011	bb	EPA TO15	
Hexane	<0.50	0.50	<1.76	1.76		1.0	3/3/2011	bb	EPA TO15	
Isopropylbenzene	<0.50	0.50	<2.46	2.46		1.0	3/3/2011	bb	EPA TO15	
m,p-Xylenes	<1.0	1.0	<4.34	4.34		1.0	3/3/2011	bb	EPA TO15	
Methylene Chloride	<0.50	0.50	<1.74	1.74		1.0	3/3/2011	bb	EPA TO15	
Methyl-tert-butyl Ether (MTBE)	<1.0	1.0	<3.61	3.61		1.0	3/3/2011	bb	EPA TO15	
Naphthalene	<5.0	5.0	<26.2	26.2		1.0	3/3/2011	bb	EPA TO15	
n-Butylbenzene	<0.50	0.50	<2.74	2.74		1.0	3/3/2011	bb	EPA TO15	
n-Nonane (C9)	<0.50	0.50	<2.62	2.62		1.0	3/3/2011	bb	EPA TO15	
n-Octane (C8)	<0.50	0.50	<2.34	2.34		1.0	3/3/2011	bb	EPA TO15	
n-Propylbenzene	<0.50	0.50	<2.46	2.46		1.0	3/3/2011	bb	EPA TO15	
o-Xylene	<0.50	0.50	<2.17	2.17		1.0	3/3/2011	bb	EPA TO15	
Propene	28	0.50	48	0.861		1.0	3/3/2011	bb	EPA TO15	
sec-Butylbenzene	<0.50	0.50	<2.74	2.74		1.0	3/3/2011	bb	EPA TO15	
Styrene	<0.50	0.50	<2.13	2.13		1.0	3/3/2011	bb	EPA TO15	
tert-Butylbenzene	<0.50	0.50	<2.74	2.74		1.0	3/3/2011	bb	EPA TO15	
Tetrachloroethene	3.5	0.50	24	3.39		1.0	3/3/2011	bb	EPA TO15	
Tetrahydrofuran	<2.0	2.0	<5.90	5.90		1.0	3/3/2011	bb	EPA TO15	
Toluene	<0.50	0.50	<1.88	1.88		1.0	3/3/2011	bb	EPA TO15	
trans-1,2-Dichloroethene	<0.50	0.50	<1.98	1.98		1.0	3/3/2011	bb	EPA TO15	
trans-1,3-Dichloropropene	<0.50	0.50	<2.27	2.27		1.0	3/3/2011	bb	EPA TO15	
Trichloroethene	0.79	0.50	4.3	2.69		1.0	3/3/2011	bb	EPA TO15	
Trichlorofluoromethane	<0.50	0.50	<2.81	2.81		1.0	3/3/2011	bb	EPA TO15	
Vinyl Acetate	<0.50	0.50	<1.76	1.76		1.0	3/3/2011	bb	EPA TO15	
Vinyl chloride	<0.50	0.50	<1.28	1.28		1.0	3/3/2011	bb	EPA TO15	
Surrogate: 4-Bromofluorobenzene	87 %		Limit 70-130							

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 Project Number: UPCO-3994011/TO15

Received: 02/24/11
 Reported: 03/14/11 15:23

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	RL	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Volatile Organic Compounds by EPA TO-15							
11C0100-BLK1							
1,1,1-Trichloroethane	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
1,1,2,2-Tetrachloroethane	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
1,1,2-Trichloroethane	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
1,1-Dichloroethane	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
1,1-Dichloroethene	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
1,2,4-Trichlorobenzene	<2.0	2.0		ppbv	11C0100	11C0100-BLK1	03-02-2011
1,2,4-Trimethylbenzene	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
1,2-Dibromoethane (EDB)	<1.0	1.0		ppbv	11C0100	11C0100-BLK1	03-02-2011
1,2-Dichlorobenzene	<0.50	0.50	N1	ppbv	11C0100	11C0100-BLK1	03-02-2011
1,2-Dichloroethane	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
1,2-Dichloropropane	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
1,3,5-Trimethylbenzene	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
1,3-Butadiene	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
1,3-Dichlorobenzene	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
1,4-Dichlorobenzene	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
2,2,4-Trimethylpentane	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
2-Butanone (MEK)	<1.0	1.0		ppbv	11C0100	11C0100-BLK1	03-02-2011
2-Hexanone	<1.0	1.0		ppbv	11C0100	11C0100-BLK1	03-02-2011
2-Propanol	<2.0	2.0		ppbv	11C0100	11C0100-BLK1	03-02-2011
4-Ethyltoluene	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
4-Methyl-2-pentanone (MIBK)	<1.0	1.0		ppbv	11C0100	11C0100-BLK1	03-02-2011
Acetone	<5.0	5.0		ppbv	11C0100	11C0100-BLK1	03-02-2011
Allyl Chloride	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
Benzene	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
Benzyl Chloride	<2.0	2.0		ppbv	11C0100	11C0100-BLK1	03-02-2011
Bromodichloromethane	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
Bromoethene(Vinyl Bromide)	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
Bromoform	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
Bromomethane	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
Carbon disulfide	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
Carbon tetrachloride	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
Chlorobenzene	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
Chloroethane	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
Chloroform	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
Chloromethane	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
cis-1,2-Dichloroethene	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
cis-1,3-Dichloropropene	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
Cyclohexane	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
Dibromochloromethane	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011

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Reported: 03/14/11 15:23

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Analyte	Blank Value	RL	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Volatile Organic Compounds by EPA TO-15							
11C0100-BLK1							
Dichlorodifluoromethane	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
Dichlorotetrafluoroethane(F-114)	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
Ethyl Acetate	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
Ethylbenzene	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
Freon 113	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
Heptane	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
Hexachlorobutadiene	<1.0	1.0		ppbv	11C0100	11C0100-BLK1	03-02-2011
Hexane	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
Isopropylbenzene	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
m,p-Xylenes	<1.0	1.0		ppbv	11C0100	11C0100-BLK1	03-02-2011
Methylene Chloride	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
Methyl-tert-butyl Ether (MTBE)	<1.0	1.0		ppbv	11C0100	11C0100-BLK1	03-02-2011
Naphthalene	<5.0	5.0		ppbv	11C0100	11C0100-BLK1	03-02-2011
n-Butylbenzene	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
n-Nonane (C9)	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
n-Octane (C8)	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
n-Propylbenzene	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
o-Xylene	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
Propene	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
sec-Butylbenzene	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
Styrene	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
tert-Butylbenzene	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
Tetrachloroethene	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
Tetrahydrofuran	<2.0	2.0		ppbv	11C0100	11C0100-BLK1	03-02-2011
Toluene	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
trans-1,2-Dichloroethene	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
trans-1,3-Dichloropropene	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
Trichloroethene	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
Trichlorofluoromethane	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
Vinyl Acetate	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
Vinyl chloride	<0.50	0.50		ppbv	11C0100	11C0100-BLK1	03-02-2011
Surrogate: 4-Bromofluorobenzene	83%				11C0100	11C0100-BLK1	03-02-2011
11C0161-BLK1							
1,1,1-Trichloroethane	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
1,1,2,2-Tetrachloroethane	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
1,1,2-Trichloroethane	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
1,1-Dichloroethane	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
1,1-Dichloroethene	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
1,2,4-Trichlorobenzene	<2.0	2.0		ppbv	11C0161	11C0161-BLK1	03-03-2011
1,2,4-Trimethylbenzene	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011

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Received: 02/24/11
 Reported: 03/14/11 15:23

Blank - Cont.

Analyte	Blank Value	RL	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Volatile Organic Compounds by EPA TO-15							
11C0161-BLK1							
1,2-Dibromoethane (EDB)	<1.0	1.0		ppbv	11C0161	11C0161-BLK1	03-03-2011
1,2-Dichlorobenzene	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
1,2-Dichloroethane	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
1,2-Dichloropropane	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
1,3,5-Trimethylbenzene	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
1,3-Butadiene	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
1,3-Dichlorobenzene	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
1,4-Dichlorobenzene	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
2,2,4-Trimethylpentane	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
2-Butanone (MEK)	<1.0	1.0		ppbv	11C0161	11C0161-BLK1	03-03-2011
2-Hexanone	<1.0	1.0		ppbv	11C0161	11C0161-BLK1	03-03-2011
2-Propanol	<2.0	2.0		ppbv	11C0161	11C0161-BLK1	03-03-2011
4-Ethyltoluene	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
4-Methyl-2-pentanone (MIBK)	<1.0	1.0		ppbv	11C0161	11C0161-BLK1	03-03-2011
Acetone	<5.0	5.0		ppbv	11C0161	11C0161-BLK1	03-03-2011
Allyl Chloride	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
Benzene	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
Benzyl Chloride	<2.0	2.0		ppbv	11C0161	11C0161-BLK1	03-03-2011
Bromodichloromethane	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
Bromoethene(Vinyl Bromide)	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
Bromoform	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
Bromomethane	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
Carbon disulfide	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
Carbon tetrachloride	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
Chlorobenzene	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
Chloroethane	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
Chloroform	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
Chloromethane	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
cis-1,2-Dichloroethene	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
cis-1,3-Dichloropropene	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
Cyclohexane	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
Dibromochloromethane	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
Dichlorodifluoromethane	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
Dichlorotetrafluoroethane(F-114)	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
Ethyl Acetate	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
Ethylbenzene	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
Freon 113	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
Heptane	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
Hexachlorobutadiene	<1.0	1.0		ppbv	11C0161	11C0161-BLK1	03-03-2011
Hexane	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
Isopropylbenzene	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011

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 Reported: 03/14/11 15:23

Blank - Cont.

Analyte	Blank Value	RL	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Volatile Organic Compounds by EPA TO-15							
11C0161-BLK1							
m,p-Xylenes	<1.0	1.0		ppbv	11C0161	11C0161-BLK1	03-03-2011
Methylene Chloride	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
Methyl-tert-butyl Ether (MTBE)	<1.0	1.0		ppbv	11C0161	11C0161-BLK1	03-03-2011
Naphthalene	<5.0	5.0		ppbv	11C0161	11C0161-BLK1	03-03-2011
n-Butylbenzene	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
n-Nonane (C9)	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
n-Octane (C8)	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
n-Propylbenzene	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
o-Xylene	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
Propene	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
sec-Butylbenzene	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
Styrene	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
tert-Butylbenzene	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
Tetrachloroethene	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
Tetrahydrofuran	<2.0	2.0		ppbv	11C0161	11C0161-BLK1	03-03-2011
Toluene	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
trans-1,2-Dichloroethene	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
trans-1,3-Dichloropropene	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
Trichloroethene	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
Trichlorofluoromethane	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
Vinyl Acetate	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
Vinyl chloride	<0.50	0.50		ppbv	11C0161	11C0161-BLK1	03-03-2011
Surrogate: 4-Bromofluorobenzene	85%				11C0161	11C0161-BLK1	03-03-2011

LCS

Analyte	Result	RL	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Volatile Organic Compounds by EPA TO-15								
11C0100-BS1								
1,1,1-Trichloroethane	8.10	0.50		ppbv	81%	70 - 130	11C0100	03-02-2011
1,1,2,2-Tetrachloroethane	8.18	0.50		ppbv	82%	70 - 130	11C0100	03-02-2011
1,1,2-Trichloroethane	9.08	0.50		ppbv	91%	70 - 130	11C0100	03-02-2011
1,1-Dichloroethane	8.17	0.50		ppbv	82%	70 - 130	11C0100	03-02-2011
1,1-Dichloroethene	8.27	0.50		ppbv	83%	70 - 130	11C0100	03-02-2011
1,2,4-Trichlorobenzene	7.21	2.00		ppbv	72%	70 - 130	11C0100	03-02-2011
1,2,4-Trimethylbenzene	9.61	0.50		ppbv	96%	70 - 130	11C0100	03-02-2011
1,2-Dibromoethane (EDB)	9.10	1.00		ppbv	91%	70 - 130	11C0100	03-02-2011
1,2-Dichlorobenzene	9.17	0.50	N1	ppbv	92%	70 - 130	11C0100	03-02-2011
1,2-Dichloroethane	7.82	0.50		ppbv	78%	70 - 130	11C0100	03-02-2011
1,2-Dichloropropane	8.42	0.50		ppbv	84%	70 - 130	11C0100	03-02-2011

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 Reported: 03/14/11 15:23

LCS - Cont.

Analyte	Result	RL	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Volatile Organic Compounds by EPA TO-15								
11C0100-BS1								
1,3,5-Trimethylbenzene	9.58	0.50		ppbv	96%	70 - 130	11C0100	03-02-2011
1,3-Butadiene	8.46	0.50		ppbv	85%	70 - 130	11C0100	03-02-2011
1,3-Dichlorobenzene	8.14	0.50		ppbv	81%	70 - 130	11C0100	03-02-2011
1,4-Dichlorobenzene	7.88	0.50		ppbv	79%	70 - 130	11C0100	03-02-2011
2,2,4-Trimethylpentane	9.57	0.50		ppbv	96%	70 - 130	11C0100	03-02-2011
2-Butanone (MEK)	8.57	1.00		ppbv	86%	70 - 130	11C0100	03-02-2011
2-Hexanone	10.6	1.00		ppbv	106%	70 - 130	11C0100	03-02-2011
2-Propanol	9.30	2.00		ppbv	93%	70 - 130	11C0100	03-02-2011
4-Ethyltoluene	10.0	0.50		ppbv	100%	70 - 130	11C0100	03-02-2011
4-Methyl-2-pentanone (MIBK)	10.3	1.00		ppbv	103%	70 - 130	11C0100	03-02-2011
Acetone	8.50	5.00		ppbv	85%	70 - 130	11C0100	03-02-2011
Allyl Chloride	8.78	0.50		ppbv	88%	70 - 130	11C0100	03-02-2011
Benzene	7.50	0.50		ppbv	75%	70 - 130	11C0100	03-02-2011
Benzyl Chloride	8.52	2.00		ppbv	85%	70 - 130	11C0100	03-02-2011
Bromodichloromethane	9.38	0.50		ppbv	94%	70 - 130	11C0100	03-02-2011
Bromoethene(Vinyl Bromide)	8.92	0.50		ppbv	89%	70 - 130	11C0100	03-02-2011
Bromoform	8.95	0.50		ppbv	90%	70 - 130	11C0100	03-02-2011
Bromomethane	8.18	0.50		ppbv	82%	70 - 130	11C0100	03-02-2011
Carbon disulfide	7.92	0.50		ppbv	79%	70 - 130	11C0100	03-02-2011
Carbon tetrachloride	8.17	0.50		ppbv	82%	70 - 130	11C0100	03-02-2011
Chlorobenzene	8.96	0.50		ppbv	90%	70 - 130	11C0100	03-02-2011
Chloroethane	7.93	0.50		ppbv	79%	70 - 130	11C0100	03-02-2011
Chloroform	8.16	0.50		ppbv	82%	70 - 130	11C0100	03-02-2011
Chloromethane	8.38	0.50		ppbv	84%	70 - 130	11C0100	03-02-2011
cis-1,2-Dichloroethene	8.14	0.50		ppbv	81%	70 - 130	11C0100	03-02-2011
cis-1,3-Dichloropropene	9.34	0.50		ppbv	93%	70 - 130	11C0100	03-02-2011
Cyclohexane	8.60	0.50		ppbv	86%	70 - 130	11C0100	03-02-2011
Dibromochloromethane	9.40	0.50		ppbv	94%	70 - 130	11C0100	03-02-2011
Dichlorodifluoromethane	8.40	0.50		ppbv	84%	70 - 130	11C0100	03-02-2011
Dichlorotetrafluoroethane(F-114)	8.04	0.50		ppbv	80%	70 - 130	11C0100	03-02-2011
Ethyl Acetate	8.89	0.50		ppbv	89%	70 - 130	11C0100	03-02-2011
Ethylbenzene	9.73	0.50		ppbv	97%	70 - 130	11C0100	03-02-2011
Freon 113	7.99	0.50		ppbv	80%	70 - 130	11C0100	03-02-2011
Heptane	8.77	0.50		ppbv	88%	70 - 130	11C0100	03-02-2011
Hexachlorobutadiene	8.81	1.00		ppbv	88%	70 - 130	11C0100	03-02-2011
Hexane	8.45	0.50		ppbv	84%	70 - 130	11C0100	03-02-2011
Isopropylbenzene	10.0	0.50		ppbv	100%	70 - 130	11C0100	03-02-2011
m,p-Xylenes	19.9	1.00		ppbv	100%	70 - 130	11C0100	03-02-2011

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Received: 02/24/11
 Reported: 03/14/11 15:23

LCS - Cont.

Analyte	Result	RL	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Volatile Organic Compounds by EPA TO-15								
11C0100-BS1								
Methylene Chloride	7.83	0.50		ppbv	78%	70 - 130	11C0100	03-02-2011
Methyl-tert-butyl Ether (MTBE)	8.74	1.00		ppbv	87%	70 - 130	11C0100	03-02-2011
Naphthalene	7.28	5.00		ppbv	73%	70 - 130	11C0100	03-02-2011
n-Butylbenzene	9.14	0.50		ppbv	91%	70 - 130	11C0100	03-02-2011
n-Nonane (C9)	10.8	0.50		ppbv	108%	70 - 130	11C0100	03-02-2011
n-Octane (C8)	10.7	0.50		ppbv	107%	70 - 130	11C0100	03-02-2011
n-Propylbenzene	9.94	0.50		ppbv	99%	70 - 130	11C0100	03-02-2011
o-Xylene	9.70	0.50		ppbv	97%	70 - 130	11C0100	03-02-2011
Propene	8.73	0.50		ppbv	87%	70 - 130	11C0100	03-02-2011
sec-Butylbenzene	10.2	0.50		ppbv	102%	70 - 130	11C0100	03-02-2011
Styrene	10.0	0.50		ppbv	100%	70 - 130	11C0100	03-02-2011
tert-Butylbenzene	10.1	0.50		ppbv	101%	70 - 130	11C0100	03-02-2011
Tetrachloroethene	8.93	0.50		ppbv	89%	70 - 130	11C0100	03-02-2011
Tetrahydrofuran	9.06	2.00		ppbv	91%	70 - 130	11C0100	03-02-2011
Toluene	8.55	0.50		ppbv	86%	70 - 130	11C0100	03-02-2011
trans-1,2-Dichloroethene	7.97	0.50		ppbv	80%	70 - 130	11C0100	03-02-2011
trans-1,3-Dichloropropene	9.17	0.50		ppbv	92%	70 - 130	11C0100	03-02-2011
Trichloroethene	8.92	0.50		ppbv	89%	70 - 130	11C0100	03-02-2011
Trichlorofluoromethane	8.22	0.50		ppbv	82%	70 - 130	11C0100	03-02-2011
Vinyl Acetate	8.39	0.50		ppbv	84%	70 - 130	11C0100	03-02-2011
Vinyl chloride	8.30	0.50		ppbv	83%	70 - 130	11C0100	03-02-2011
<i>Surrogate: 4-Bromofluorobenzene</i>	10.2	0.50			102%	70 - 130	11C0100	03-02-2011
11C0161-BS1								
1,1,1-Trichloroethane	7.90	0.50		ppbv	79%	70 - 130	11C0161	03-03-2011
1,1,2,2-Tetrachloroethane	8.04	0.50		ppbv	80%	70 - 130	11C0161	03-03-2011
1,1,2-Trichloroethane	8.85	0.50		ppbv	88%	70 - 130	11C0161	03-03-2011
1,1-Dichloroethane	7.90	0.50		ppbv	79%	70 - 130	11C0161	03-03-2011
1,1-Dichloroethene	8.05	0.50		ppbv	80%	70 - 130	11C0161	03-03-2011
1,2,4-Trichlorobenzene	7.21	2.00		ppbv	72%	70 - 130	11C0161	03-03-2011
1,2,4-Trimethylbenzene	9.44	0.50		ppbv	94%	70 - 130	11C0161	03-03-2011
1,2-Dibromoethane (EDB)	8.81	1.00		ppbv	88%	70 - 130	11C0161	03-03-2011
1,2-Dichlorobenzene	8.96	0.50		ppbv	90%	70 - 130	11C0161	03-03-2011
1,2-Dichloroethane	7.45	0.50		ppbv	74%	70 - 130	11C0161	03-03-2011
1,2-Dichloropropane	8.20	0.50		ppbv	82%	70 - 130	11C0161	03-03-2011
1,3,5-Trimethylbenzene	9.40	0.50		ppbv	94%	70 - 130	11C0161	03-03-2011
1,3-Butadiene	8.15	0.50		ppbv	82%	70 - 130	11C0161	03-03-2011
1,3-Dichlorobenzene	7.95	0.50		ppbv	80%	70 - 130	11C0161	03-03-2011
1,4-Dichlorobenzene	7.69	0.50		ppbv	77%	70 - 130	11C0161	03-03-2011

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Reported: 03/14/11 15:23

LCS - Cont.

Analyte	Result	RL	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Volatile Organic Compounds by EPA TO-15								
11C0161-BS1								
2,2,4-Trimethylpentane	9.53	0.50		ppbv	95%	70 - 130	11C0161	03-03-2011
2-Butanone (MEK)	8.31	1.00		ppbv	83%	70 - 130	11C0161	03-03-2011
2-Hexanone	10.4	1.00		ppbv	104%	70 - 130	11C0161	03-03-2011
2-Propanol	8.15	2.00		ppbv	82%	70 - 130	11C0161	03-03-2011
4-Ethyltoluene	9.85	0.50		ppbv	98%	70 - 130	11C0161	03-03-2011
4-Methyl-2-pentanone (MIBK)	10.0	1.00		ppbv	100%	70 - 130	11C0161	03-03-2011
Acetone	8.23	5.00		ppbv	82%	70 - 130	11C0161	03-03-2011
Allyl Chloride	8.57	0.50		ppbv	86%	70 - 130	11C0161	03-03-2011
Benzene	7.10	0.50		ppbv	71%	70 - 130	11C0161	03-03-2011
Benzyl Chloride	8.44	2.00		ppbv	84%	70 - 130	11C0161	03-03-2011
Bromodichloromethane	9.09	0.50		ppbv	91%	70 - 130	11C0161	03-03-2011
Bromoethene(Vinyl Bromide)	8.82	0.50		ppbv	88%	70 - 130	11C0161	03-03-2011
Bromoform	8.78	0.50		ppbv	88%	70 - 130	11C0161	03-03-2011
Bromomethane	8.13	0.50		ppbv	81%	70 - 130	11C0161	03-03-2011
Carbon disulfide	7.84	0.50		ppbv	78%	70 - 130	11C0161	03-03-2011
Carbon tetrachloride	8.02	0.50		ppbv	80%	70 - 130	11C0161	03-03-2011
Chlorobenzene	8.77	0.50		ppbv	88%	70 - 130	11C0161	03-03-2011
Chloroethane	7.75	0.50		ppbv	78%	70 - 130	11C0161	03-03-2011
Chloroform	7.96	0.50		ppbv	80%	70 - 130	11C0161	03-03-2011
Chloromethane	8.56	0.50		ppbv	86%	70 - 130	11C0161	03-03-2011
cis-1,2-Dichloroethene	8.02	0.50		ppbv	80%	70 - 130	11C0161	03-03-2011
cis-1,3-Dichloropropene	9.19	0.50		ppbv	92%	70 - 130	11C0161	03-03-2011
Cyclohexane	8.40	0.50		ppbv	84%	70 - 130	11C0161	03-03-2011
Dibromochloromethane	9.21	0.50		ppbv	92%	70 - 130	11C0161	03-03-2011
Dichlorodifluoromethane	8.84	0.50		ppbv	88%	70 - 130	11C0161	03-03-2011
Dichlorotetrafluoroethane(F-114)	7.82	0.50		ppbv	78%	70 - 130	11C0161	03-03-2011
Ethyl Acetate	8.51	0.50		ppbv	85%	70 - 130	11C0161	03-03-2011
Ethylbenzene	9.63	0.50		ppbv	96%	70 - 130	11C0161	03-03-2011
Freon 113	7.81	0.50		ppbv	78%	70 - 130	11C0161	03-03-2011
Heptane	8.64	0.50		ppbv	86%	70 - 130	11C0161	03-03-2011
Hexachlorobutadiene	8.79	1.00		ppbv	88%	70 - 130	11C0161	03-03-2011
Hexane	8.25	0.50		ppbv	82%	70 - 130	11C0161	03-03-2011
Isopropylbenzene	9.81	0.50		ppbv	98%	70 - 130	11C0161	03-03-2011
m,p-Xylenes	18.8	1.00		ppbv	94%	70 - 130	11C0161	03-03-2011
Methylene Chloride	7.64	0.50		ppbv	76%	70 - 130	11C0161	03-03-2011
Methyl-tert-butyl Ether (MTBE)	8.43	1.00		ppbv	84%	70 - 130	11C0161	03-03-2011
Naphthalene	7.19	5.00		ppbv	72%	70 - 130	11C0161	03-03-2011
n-Butylbenzene	8.90	0.50		ppbv	89%	70 - 130	11C0161	03-03-2011

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LCS - Cont.

Analyte	Result	RL	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Volatile Organic Compounds by EPA TO-15								
11C0161-BS1								
n-Nonane (C9)	10.4	0.50		ppbv	104%	70 - 130	11C0161	03-03-2011
n-Octane (C8)	10.5	0.50		ppbv	105%	70 - 130	11C0161	03-03-2011
n-Propylbenzene	9.80	0.50		ppbv	98%	70 - 130	11C0161	03-03-2011
o-Xylene	9.40	0.50		ppbv	94%	70 - 130	11C0161	03-03-2011
Propene	9.03	0.50		ppbv	90%	70 - 130	11C0161	03-03-2011
sec-Butylbenzene	10.0	0.50		ppbv	100%	70 - 130	11C0161	03-03-2011
Styrene	9.83	0.50		ppbv	98%	70 - 130	11C0161	03-03-2011
tert-Butylbenzene	9.98	0.50		ppbv	100%	70 - 130	11C0161	03-03-2011
Tetrachloroethene	8.94	0.50		ppbv	89%	70 - 130	11C0161	03-03-2011
Tetrahydrofuran	8.62	2.00		ppbv	86%	70 - 130	11C0161	03-03-2011
Toluene	8.38	0.50		ppbv	84%	70 - 130	11C0161	03-03-2011
trans-1,2-Dichloroethene	7.78	0.50		ppbv	78%	70 - 130	11C0161	03-03-2011
trans-1,3-Dichloropropene	8.93	0.50		ppbv	89%	70 - 130	11C0161	03-03-2011
Trichloroethene	8.85	0.50		ppbv	88%	70 - 130	11C0161	03-03-2011
Trichlorofluoromethane	8.00	0.50		ppbv	80%	70 - 130	11C0161	03-03-2011
Vinyl Acetate	8.08	0.50		ppbv	81%	70 - 130	11C0161	03-03-2011
Vinyl chloride	8.33	0.50		ppbv	83%	70 - 130	11C0161	03-03-2011
<i>Surrogate: 4-Bromofluorobenzene</i>	10.1	0.50			101%	70 - 130	11C0161	03-03-2011

LCS Dup

Analyte	Result	RL	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Volatile Organic Compounds by EPA TO-15												
11C0100-BSD1												
1,1,1-Trichloroethane	8.16	0.50		ppbv	10.0	82%	70 - 130	0.7	30	11C0100		03-02-2011
1,1,2,2-Tetrachloroethane	8.15	0.50		ppbv	10.0	82%	70 - 130	0.4	30	11C0100		03-02-2011
1,1,2-Trichloroethane	9.03	0.50		ppbv	10.0	90%	70 - 130	0.6	30	11C0100		03-02-2011
1,1-Dichloroethane	8.27	0.50		ppbv	10.0	83%	70 - 130	1	30	11C0100		03-02-2011
1,1-Dichloroethene	8.35	0.50		ppbv	10.0	84%	70 - 130	1	30	11C0100		03-02-2011
1,2,4-Trichlorobenzene	7.21	2.00		ppbv	10.0	72%	70 - 130	0	30	11C0100		03-02-2011
1,2,4-Trimethylbenzene	9.59	0.50		ppbv	10.0	96%	70 - 130	0.2	30	11C0100		03-02-2011
1,2-Dibromoethane (EDB)	9.09	1.00		ppbv	10.0	91%	70 - 130	0.1	30	11C0100		03-02-2011
1,2-Dichlorobenzene	9.06	0.50	N1	ppbv	10.0	91%	70 - 130	1	30	11C0100		03-02-2011
1,2-Dichloroethane	7.84	0.50		ppbv	10.0	78%	70 - 130	0.3	30	11C0100		03-02-2011
1,2-Dichloropropane	8.42	0.50		ppbv	10.0	84%	70 - 130	0	30	11C0100		03-02-2011
1,3,5-Trimethylbenzene	9.52	0.50		ppbv	10.0	95%	70 - 130	0.6	30	11C0100		03-02-2011
1,3-Butadiene	8.51	0.50		ppbv	10.0	85%	70 - 130	0.6	30	11C0100		03-02-2011
1,3-Dichlorobenzene	8.10	0.50		ppbv	10.0	81%	70 - 130	0.5	30	11C0100		03-02-2011
1,4-Dichlorobenzene	7.81	0.50		ppbv	10.0	78%	70 - 130	0.9	30	11C0100		03-02-2011

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LCS Dup - Cont.

Analyte	Result	RL	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Volatile Organic Compounds by EPA TO-15												
11C0100-BSD1												
2,2,4-Trimethylpentane	9.67	0.50		ppbv	10.0	97%	70 - 130	1	30	11C0100		03-02-2011
2-Butanone (MEK)	8.83	1.00		ppbv	10.0	88%	70 - 130	3	30	11C0100		03-02-2011
2-Hexanone	10.6	1.00		ppbv	10.0	106%	70 - 130	0.09	30	11C0100		03-02-2011
2-Propanol	9.35	2.00		ppbv	10.0	94%	70 - 130	0.5	30	11C0100		03-02-2011
4-Ethyltoluene	9.98	0.50		ppbv	10.0	100%	70 - 130	0.2	30	11C0100		03-02-2011
4-Methyl-2-pentanone (MIBK)	10.2	1.00		ppbv	10.0	102%	70 - 130	0.4	30	11C0100		03-02-2011
Acetone	8.57	5.00		ppbv	10.0	86%	70 - 130	0.8	30	11C0100		03-02-2011
Allyl Chloride	9.07	0.50		ppbv	10.0	91%	70 - 130	3	30	11C0100		03-02-2011
Benzene	7.44	0.50		ppbv	10.0	74%	70 - 130	0.8	30	11C0100		03-02-2011
Benzyl Chloride	8.46	2.00		ppbv	10.0	85%	70 - 130	0.7	30	11C0100		03-02-2011
Bromodichloromethane	9.30	0.50		ppbv	10.0	93%	70 - 130	0.9	30	11C0100		03-02-2011
Bromoethene(Vinyl Bromide)	8.87	0.50		ppbv	10.0	89%	70 - 130	0.6	30	11C0100		03-02-2011
Bromoform	8.86	0.50		ppbv	10.0	89%	70 - 130	1	30	11C0100		03-02-2011
Bromomethane	8.26	0.50		ppbv	10.0	83%	70 - 130	1	30	11C0100		03-02-2011
Carbon disulfide	7.85	0.50		ppbv	10.0	78%	70 - 130	0.9	30	11C0100		03-02-2011
Carbon tetrachloride	8.22	0.50		ppbv	10.0	82%	70 - 130	0.6	30	11C0100		03-02-2011
Chlorobenzene	8.93	0.50		ppbv	10.0	89%	70 - 130	0.3	30	11C0100		03-02-2011
Chloroethane	8.05	0.50		ppbv	10.0	80%	70 - 130	2	30	11C0100		03-02-2011
Chloroform	8.21	0.50		ppbv	10.0	82%	70 - 130	0.6	30	11C0100		03-02-2011
Chloromethane	8.49	0.50		ppbv	10.0	85%	70 - 130	1	30	11C0100		03-02-2011
cis-1,2-Dichloroethene	8.21	0.50		ppbv	10.0	82%	70 - 130	0.9	30	11C0100		03-02-2011
cis-1,3-Dichloropropene	9.47	0.50		ppbv	10.0	95%	70 - 130	1	30	11C0100		03-02-2011
Cyclohexane	8.71	0.50		ppbv	10.0	87%	70 - 130	1	30	11C0100		03-02-2011
Dibromochloromethane	9.36	0.50		ppbv	10.0	94%	70 - 130	0.4	30	11C0100		03-02-2011
Dichlorodifluoromethane	8.49	0.50		ppbv	10.0	85%	70 - 130	1	30	11C0100		03-02-2011
Dichlorotetrafluoroethane(F-114)	8.07	0.50		ppbv	10.0	81%	70 - 130	0.4	30	11C0100		03-02-2011
Ethyl Acetate	8.98	0.50		ppbv	10.0	90%	70 - 130	1	30	11C0100		03-02-2011
Ethylbenzene	9.69	0.50		ppbv	10.0	97%	70 - 130	0.4	30	11C0100		03-02-2011
Freon 113	8.00	0.50		ppbv	10.0	80%	70 - 130	0.1	30	11C0100		03-02-2011
Heptane	8.92	0.50		ppbv	10.0	89%	70 - 130	2	30	11C0100		03-02-2011
Hexachlorobutadiene	8.73	1.00		ppbv	10.0	87%	70 - 130	0.9	30	11C0100		03-02-2011
Hexane	8.56	0.50		ppbv	10.0	86%	70 - 130	1	30	11C0100		03-02-2011
Isopropylbenzene	9.98	0.50		ppbv	10.0	100%	70 - 130	0.6	30	11C0100		03-02-2011
m,p-Xylenes	19.9	1.00		ppbv	20.0	100%	70 - 130	0	30	11C0100		03-02-2011
Methylene Chloride	8.01	0.50		ppbv	10.0	80%	70 - 130	2	30	11C0100		03-02-2011
Methyl-tert-butyl Ether (MTBE)	8.85	1.00		ppbv	10.0	88%	70 - 130	1	30	11C0100		03-02-2011
Naphthalene	7.60	5.00		ppbv	10.0	76%	70 - 130	4	30	11C0100		03-02-2011
n-Butylbenzene	9.07	0.50		ppbv	10.0	91%	70 - 130	0.8	30	11C0100		03-02-2011
n-Nonane (C9)	10.6	0.50		ppbv	10.0	106%	70 - 130	1	30	11C0100		03-02-2011
n-Octane (C8)	10.7	0.50		ppbv	10.0	107%	70 - 130	0.09	30	11C0100		03-02-2011
n-Propylbenzene	9.92	0.50		ppbv	10.0	99%	70 - 130	0.2	30	11C0100		03-02-2011

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 Gregory Guimond

Work Order: PUB1539
 Project: UPCO-3994011/TO15
 Project Number: UPCO-3994011/TO15

Received: 02/24/11
 Reported: 03/14/11 15:23

LCS Dup - Cont.

Analyte	Result	RL	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Volatile Organic Compounds by EPA TO-15												
11C0100-BSD1												
o-Xylene	9.66	0.50		ppbv	10.0	97%	70 - 130	0.4	30	11C0100		03-02-2011
Propene	9.05	0.50		ppbv	10.0	90%	70 - 130	4	30	11C0100		03-02-2011
sec-Butylbenzene	10.1	0.50		ppbv	10.0	101%	70 - 130	0.8	30	11C0100		03-02-2011
Styrene	10.0	0.50		ppbv	10.0	100%	70 - 130	0.1	30	11C0100		03-02-2011
tert-Butylbenzene	10.0	0.50		ppbv	10.0	100%	70 - 130	0.5	30	11C0100		03-02-2011
Tetrachloroethene	8.99	0.50		ppbv	10.0	90%	70 - 130	0.7	30	11C0100		03-02-2011
Tetrahydrofuran	9.18	2.00		ppbv	10.0	92%	70 - 130	1	30	11C0100		03-02-2011
Toluene	8.61	0.50		ppbv	10.0	86%	70 - 130	0.7	30	11C0100		03-02-2011
trans-1,2-Dichloroethene	8.10	0.50		ppbv	10.0	81%	70 - 130	2	30	11C0100		03-02-2011
trans-1,3-Dichloropropene	9.19	0.50		ppbv	10.0	92%	70 - 130	0.2	30	11C0100		03-02-2011
Trichloroethene	8.92	0.50		ppbv	10.0	89%	70 - 130	0	30	11C0100		03-02-2011
Trichlorofluoromethane	8.14	0.50		ppbv	10.0	81%	70 - 130	1	30	11C0100		03-02-2011
Vinyl Acetate	8.49	0.50		ppbv	10.0	85%	70 - 130	1	30	11C0100		03-02-2011
Vinyl chloride	8.42	0.50		ppbv	10.0	84%	70 - 130	1	30	11C0100		03-02-2011
Surrogate: 4-Bromofluorobenzene	10.1	0.50		ppbv	10.0	101%	70 - 130			11C0100		03-02-2011
11C0161-BSD1												
1,1,1-Trichloroethane	7.80	0.50		ppbv	10.0	78%	70 - 130	1	30	11C0161		03-03-2011
1,1,2,2-Tetrachloroethane	7.84	0.50		ppbv	10.0	78%	70 - 130	3	30	11C0161		03-03-2011
1,1,2-Trichloroethane	8.52	0.50		ppbv	10.0	85%	70 - 130	4	30	11C0161		03-03-2011
1,1-Dichloroethane	7.78	0.50		ppbv	10.0	78%	70 - 130	2	30	11C0161		03-03-2011
1,1-Dichloroethene	7.96	0.50		ppbv	10.0	80%	70 - 130	1	30	11C0161		03-03-2011
1,2,4-Trichlorobenzene	7.02	2.00		ppbv	10.0	70%	70 - 130	3	30	11C0161		03-03-2011
1,2,4-Trimethylbenzene	9.12	0.50		ppbv	10.0	91%	70 - 130	3	30	11C0161		03-03-2011
1,2-Dibromoethane (EDB)	8.55	1.00		ppbv	10.0	86%	70 - 130	3	30	11C0161		03-03-2011
1,2-Dichlorobenzene	8.61	0.50		ppbv	10.0	86%	70 - 130	4	30	11C0161		03-03-2011
1,2-Dichloroethane	7.31	0.50		ppbv	10.0	73%	70 - 130	2	30	11C0161		03-03-2011
1,2-Dichloropropane	7.84	0.50		ppbv	10.0	78%	70 - 130	4	30	11C0161		03-03-2011
1,3,5-Trimethylbenzene	9.15	0.50		ppbv	10.0	92%	70 - 130	3	30	11C0161		03-03-2011
1,3-Butadiene	8.17	0.50		ppbv	10.0	82%	70 - 130	0.2	30	11C0161		03-03-2011
1,3-Dichlorobenzene	7.77	0.50		ppbv	10.0	78%	70 - 130	2	30	11C0161		03-03-2011
1,4-Dichlorobenzene	7.44	0.50		ppbv	10.0	74%	70 - 130	3	30	11C0161		03-03-2011
2,2,4-Trimethylpentane	9.22	0.50		ppbv	10.0	92%	70 - 130	3	30	11C0161		03-03-2011
2-Butanone (MEK)	8.13	1.00		ppbv	10.0	81%	70 - 130	2	30	11C0161		03-03-2011
2-Hexanone	10.2	1.00		ppbv	10.0	102%	70 - 130	2	30	11C0161		03-03-2011
2-Propanol	8.51	2.00		ppbv	10.0	85%	70 - 130	4	30	11C0161		03-03-2011
4-Ethyltoluene	9.50	0.50		ppbv	10.0	95%	70 - 130	4	30	11C0161		03-03-2011
4-Methyl-2-pentanone (MIBK)	9.83	1.00		ppbv	10.0	98%	70 - 130	2	30	11C0161		03-03-2011
Acetone	8.07	5.00		ppbv	10.0	81%	70 - 130	2	30	11C0161		03-03-2011
Allyl Chloride	8.39	0.50		ppbv	10.0	84%	70 - 130	2	30	11C0161		03-03-2011
Benzene	6.96	0.50		ppbv	10.0	70%	70 - 130	2	30	11C0161		03-03-2011

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Phoenix, AZ 85008
Gregory Guimond

Work Order: PUB1539
Project: UPCO-3994011/TO15
Project Number: UPCO-3994011/TO15

Received: 02/24/11
Reported: 03/14/11 15:23

LCS Dup - Cont.

Analyte	Result	RL	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Volatile Organic Compounds by EPA TO-15												
11C0161-BSD1												
Benzyl Chloride	8.19	2.00		ppbv	10.0	82%	70 - 130	3	30	11C0161		03-03-2011
Bromodichloromethane	8.83	0.50		ppbv	10.0	88%	70 - 130	3	30	11C0161		03-03-2011
Bromoethene(Vinyl Bromide)	8.61	0.50		ppbv	10.0	86%	70 - 130	2	30	11C0161		03-03-2011
Bromoform	8.49	0.50		ppbv	10.0	85%	70 - 130	3	30	11C0161		03-03-2011
Bromomethane	7.97	0.50		ppbv	10.0	80%	70 - 130	2	30	11C0161		03-03-2011
Carbon disulfide	7.67	0.50		ppbv	10.0	77%	70 - 130	2	30	11C0161		03-03-2011
Carbon tetrachloride	7.87	0.50		ppbv	10.0	79%	70 - 130	2	30	11C0161		03-03-2011
Chlorobenzene	8.44	0.50		ppbv	10.0	84%	70 - 130	4	30	11C0161		03-03-2011
Chloroethane	7.63	0.50		ppbv	10.0	76%	70 - 130	2	30	11C0161		03-03-2011
Chloroform	7.81	0.50		ppbv	10.0	78%	70 - 130	2	30	11C0161		03-03-2011
Chloromethane	8.24	0.50		ppbv	10.0	82%	70 - 130	4	30	11C0161		03-03-2011
cis-1,2-Dichloroethene	7.81	0.50		ppbv	10.0	78%	70 - 130	3	30	11C0161		03-03-2011
cis-1,3-Dichloropropene	8.89	0.50		ppbv	10.0	89%	70 - 130	3	30	11C0161		03-03-2011
Cyclohexane	8.26	0.50		ppbv	10.0	83%	70 - 130	2	30	11C0161		03-03-2011
Dibromochloromethane	8.85	0.50		ppbv	10.0	88%	70 - 130	4	30	11C0161		03-03-2011
Dichlorodifluoromethane	8.53	0.50		ppbv	10.0	85%	70 - 130	4	30	11C0161		03-03-2011
Dichlorotetrafluoroethane(F-114)	7.73	0.50		ppbv	10.0	77%	70 - 130	1	30	11C0161		03-03-2011
Ethyl Acetate	8.40	0.50		ppbv	10.0	84%	70 - 130	1	30	11C0161		03-03-2011
Ethylbenzene	9.16	0.50		ppbv	10.0	92%	70 - 130	5	30	11C0161		03-03-2011
Freon 113	7.60	0.50		ppbv	10.0	76%	70 - 130	3	30	11C0161		03-03-2011
Heptane	8.49	0.50		ppbv	10.0	85%	70 - 130	2	30	11C0161		03-03-2011
Hexachlorobutadiene	8.22	1.00		ppbv	10.0	82%	70 - 130	7	30	11C0161		03-03-2011
Hexane	8.06	0.50		ppbv	10.0	81%	70 - 130	2	30	11C0161		03-03-2011
Isopropylbenzene	9.49	0.50		ppbv	10.0	95%	70 - 130	3	30	11C0161		03-03-2011
m,p-Xylenes	18.1	1.00		ppbv	20.0	91%	70 - 130	4	30	11C0161		03-03-2011
Methylene Chloride	7.51	0.50		ppbv	10.0	75%	70 - 130	2	30	11C0161		03-03-2011
Methyl-tert-butyl Ether (MTBE)	8.32	1.00		ppbv	10.0	83%	70 - 130	1	30	11C0161		03-03-2011
Naphthalene	7.34	5.00		ppbv	10.0	73%	70 - 130	2	30	11C0161		03-03-2011
n-Butylbenzene	8.53	0.50		ppbv	10.0	85%	70 - 130	4	30	11C0161		03-03-2011
n-Nonane (C9)	10.2	0.50		ppbv	10.0	102%	70 - 130	2	30	11C0161		03-03-2011
n-Octane (C8)	10.2	0.50		ppbv	10.0	102%	70 - 130	2	30	11C0161		03-03-2011
n-Propylbenzene	9.52	0.50		ppbv	10.0	95%	70 - 130	3	30	11C0161		03-03-2011
o-Xylene	9.15	0.50		ppbv	10.0	92%	70 - 130	3	30	11C0161		03-03-2011
Propene	8.86	0.50		ppbv	10.0	89%	70 - 130	2	30	11C0161		03-03-2011
sec-Butylbenzene	9.76	0.50		ppbv	10.0	98%	70 - 130	3	30	11C0161		03-03-2011
Styrene	9.42	0.50		ppbv	10.0	94%	70 - 130	4	30	11C0161		03-03-2011
tert-Butylbenzene	9.63	0.50		ppbv	10.0	96%	70 - 130	4	30	11C0161		03-03-2011
Tetrachloroethene	8.55	0.50		ppbv	10.0	86%	70 - 130	4	30	11C0161		03-03-2011
Tetrahydrofuran	8.47	2.00		ppbv	10.0	85%	70 - 130	2	30	11C0161		03-03-2011
Toluene	8.08	0.50		ppbv	10.0	81%	70 - 130	4	30	11C0161		03-03-2011
trans-1,2-Dichloroethene	7.67	0.50		ppbv	10.0	77%	70 - 130	1	30	11C0161		03-03-2011

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Received: 02/24/11
 Reported: 03/14/11 15:23

LCS Dup - Cont.

Analyte	Result	RL	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Volatile Organic Compounds by EPA TO-15												
11C0161-BSD1												
trans-1,3-Dichloropropene	8.63	0.50		ppbv	10.0	86%	70 - 130	3	30	11C0161		03-03-2011
Trichloroethene	8.56	0.50		ppbv	10.0	86%	70 - 130	3	30	11C0161		03-03-2011
Trichlorofluoromethane	7.88	0.50		ppbv	10.0	79%	70 - 130	2	30	11C0161		03-03-2011
Vinyl Acetate	7.96	0.50		ppbv	10.0	80%	70 - 130	1	30	11C0161		03-03-2011
Vinyl chloride	8.11	0.50		ppbv	10.0	81%	70 - 130	3	30	11C0161		03-03-2011
Surrogate: 4-Bromofluorobenzene	10.1	0.50		ppbv	10.0	101%	70 - 130			11C0161		03-03-2011

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Project Number: UPCO-3994011/TO15

Received: 02/24/11
Reported: 03/14/11 15:23

CERTIFICATION SUMMARY

Analyses included in this report were performed by TestAmerica Phoenix, 4625 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ 85040.

TestAmerica Phoenix (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1010, NIOSH 1015, NIOSH 1022, NIOSH 1300, NIOSH 1400, NIOSH 1401, NIOSH 1403, NIOSH 1405, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1550, NIOSH 1602, NIOSH 1604, NIOSH 1606, NIOSH 1609, NIOSH 1610, NIOSH 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2016, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7303, NIOSH 7600, NIOSH 7903, NIOSH 9100, NIOSH 9102, EPA IP-6A, EPA IP-6C, OSHA PV2120, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, OSHA ID-125G, OSHA IS-215, OSHA 1001, OSHA 1002, OSHA 1003, OSHA 1004, OSHA 1005 and OSHA Chemical and Sampling Information for Silane. Volatile organic compounds on 3M Organic Vapor Monitors, Assay Technology Passive Monitors and SKC Passive Monitors. Formaldehyde and other aldehydes and ketones on Assay Technology Passive Monitor. Aldehydes and ketones by EPA TO-11A.

The TestAmerica Phoenix is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Phoenix also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

- OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

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4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Gregory Guimond

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Project: UPCO-3994011/TO15
Project Number: UPCO-3994011/TO15

Received: 02/24/11
Reported: 03/14/11 15:23

DATA QUALIFIERS AND DEFINITIONS

N1 See case narrative.

ADDITIONAL COMMENTS

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.
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TestAmerica Phoenix
 4645 E. Cotton Center Blvd, Bldg 3, Ste 189
 Phoenix, AZ 85040
 Phone 602.437.3340 Fax 602.454.9303

Client Contact Information				Project Manager: <u>Greg Guimond</u>				Page <u>1</u> of <u>1</u> COCs																																	
Company: <u>Malesm Pirnie, Inc</u>				Phone: <u>602-241-1770</u>				Samples Collected By: <u>Brian Brozman, Danielle Taber</u>																																	
Address: <u>4645 E. Van Buren St, Ste 400</u>				Email: <u>gguimond@pirnie.com</u>				<table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 5%;">TO-15 (Full or IAG)</td> <td style="width: 5%;">TO-14A</td> <td style="width: 5%;">TO-3</td> <td style="width: 5%;">EPA 25C</td> <td style="width: 5%;">ASTM D-1946 (Fixed Gases)</td> <td style="width: 5%;">Other (Please specify in notes section)</td> <td style="width: 5%;">Sample Type</td> <td style="width: 5%;">Indoor Air (IAG)</td> <td style="width: 5%;">Ambient Air</td> <td style="width: 5%;">Soil Gas</td> <td style="width: 5%;">Landfill Gas</td> <td style="width: 5%;">Other (Please specify in notes section)</td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>										TO-15 (Full or IAG)	TO-14A	TO-3	EPA 25C	ASTM D-1946 (Fixed Gases)	Other (Please specify in notes section)	Sample Type	Indoor Air (IAG)	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)												
TO-15 (Full or IAG)	TO-14A	TO-3	EPA 25C	ASTM D-1946 (Fixed Gases)	Other (Please specify in notes section)	Sample Type	Indoor Air (IAG)											Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)																				
City/State/Zip: <u>Phoenix, AZ 85018</u>				Site Contact:																																					
Phone: <u>602-241-1770</u>				LAB Contact: <u>Carlene McLutcheon</u>																																					
FAX: <u>602-231-0131</u>				Analysis Turnaround Time																																					
Project Name: <u>UPLC</u>				Standard (Specify) <u>Y</u>																																					
Site: <u>Happy Valley Rd / Central Ave</u>				Rush (Specify)																																					
PO # <u>349408</u>																																									
Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Model (Liters)	Flow Controller ID	Canister ID	TO-15 (Full or IAG)	TO-14A	TO-3	EPA 25C	ASTM D-1946 (Fixed Gases)	Other (Please specify in notes section)	Sample Type	Indoor Air (IAG)	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)																							
				0.4, (1.0), 6.0		1288	X				PVB1539-01					X																									
SVMW-1-30-40	2/24/11	0843	0851	0.4, (1.0), 6.0		1427	X				-02					X																									
SVMW-1-90-100	2/24/11	0915	0920	0.4, (1.0), 6.0		0714	X				-03					X																									
SVMW-1-140-150	2/24/11	0926	0942	0.4, (1.0), 6.0		0744	X				-04					X																									
SVMW-1-190-200	2/24/11	1005	1010	0.4, (1.0), 6.0																																					
<div style="font-size: 2em; transform: rotate(-45deg); opacity: 0.5;">dat</div>				0.4, 1.0, 6.0																																					
				0.4, 1.0, 6.0																																					
				0.4, 1.0, 6.0																																					
				0.4, 1.0, 6.0																																					
				0.4, 1.0, 6.0																																					
				0.4, 1.0, 6.0																																					
Special Instructions/QC Requirements & Comments:																																									
Canister 0714: initial vacuum - 10 inHg! only Canister 0744: initial vacuum - 10 inHg only!																																									
Canister 1427: -22 inHg initial; canister 1288: -22 inHg initial																																									
Samples Shipped by:				Date/Time:				Samples Received by:																																	
Samples Relinquished by:				Date/Time:				Received by:																																	
Relinquished by:				Date/Time:				Received by:																																	
<u>Dell Ebn</u>				<u>2/24/11 1715</u>				<u>[Signature]</u>																																	
				<u>2-24-11 1715</u>				<u>[Signature]</u>																																	

20°C Ambient

May 03, 2011

LABORATORY REPORT

Client:

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attn: Gregory Guimond

Work Order: PUD1452
Project Name: UPCO-3994011/TO15
Project Number: UPCO
Date Received: 04/25/11
Final Report: 05/03/11 13:49

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

The Chain of Custody, 1 page, is included and is an integral part of this report. This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE:

SAMPLE RECEIPT: Samples were received intact, at 20°C and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

N1-Batch 11E0012-The daily second source calibration verification recovered high and outside of acceptance limits for Vinyl Acetate and Benzyl Chloride. All associated samples are non-detect for these compounds and therefore should not be impacted.

N1-Batch 11D1017-The daily second source calibration verification recovered high and outside of acceptance limits for Vinyl Acetate, Benzyl Chloride, 1,2,4-Trichlorobenzene and Hexachlorobutadiene. All associated samples are non-detect for these compounds and therefore should not be impacted.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Approved By:



Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Gregory Guimond

Work Order: PUD1452
Project: UPCO-3994011/TO15
Project Number: UPCO

Received: 04/25/11
Reported: 05/03/11 13:49

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

SVMW-1-30-40
SVMW-1-90-100
SVMW-1-140-150
SVMW-1-190-200

PUD1452-01
PUD1452-02
PUD1452-03
PUD1452-04

04/25/11
04/25/11
04/25/11
04/25/11

S/N 0941 1L Canister
S/N 0608 1L Canister
S/N 1299 1L Canister
S/N 0644 1L Canister

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ANALYTICAL REPORT

	<u>ppbv</u>		<u>ug/m3</u>		<u>Data</u>		<u>Date</u>	<u>Analyst</u>	<u>Method</u>	
	<u>Result</u>	<u>RL</u>	<u>Result</u>	<u>RL</u>	<u>Qualifiers</u>	<u>Dilution</u>	<u>Analyzed</u>			
Volatile Organic Compounds by EPA TO-15										
Sample ID: PUD1452-01 (SVMW-1-30-40)										
					Sampling Time: min					
					4/28/2011					
Sampled: 04/25/11 10:37										
1,1,1-Trichloroethane	<5.0	5.0	<27.3	27.3		9.9	4/28/2011	BB	EPA TO15	
1,1,2,2-Tetrachloroethane	<5.0	5.0	<34.3	34.3		9.9	4/28/2011	BB	EPA TO15	
1,1,2-Trichloroethane	<5.0	5.0	<27.3	27.3		9.9	4/28/2011	BB	EPA TO15	
1,1-Dichloroethane	9.3	5.0	38	20.2		9.9	4/28/2011	BB	EPA TO15	
1,2,4-Trichlorobenzene	<20	20	<148	148	L3,N1	9.9	4/28/2011	BB	EPA TO15	
1,2,4-Trimethylbenzene	<5.0	5.0	<24.6	24.6		9.9	4/28/2011	BB	EPA TO15	
1,2-Dibromoethane (EDB)	<9.9	9.9	<76.1	76.1		9.9	4/28/2011	BB	EPA TO15	
1,2-Dichlorobenzene	<5.0	5.0	<30.1	30.1		9.9	4/28/2011	BB	EPA TO15	
1,2-Dichloroethane	<5.0	5.0	<20.2	20.2		9.9	4/28/2011	BB	EPA TO15	
1,2-Dichloropropane	<5.0	5.0	<23.1	23.1		9.9	4/28/2011	BB	EPA TO15	
1,3,5-Trimethylbenzene	<5.0	5.0	<24.6	24.6		9.9	4/28/2011	BB	EPA TO15	
1,3-Butadiene	<5.0	5.0	<11.1	11.1		9.9	4/28/2011	BB	EPA TO15	
1,3-Dichlorobenzene	<5.0	5.0	<30.1	30.1		9.9	4/28/2011	BB	EPA TO15	
1,4-Dichlorobenzene	<5.0	5.0	<30.1	30.1		9.9	4/28/2011	BB	EPA TO15	
2,2,4-Trimethylpentane	<5.0	5.0	<23.4	23.4		9.9	4/28/2011	BB	EPA TO15	
2-Butanone (MEK)	160	9.9	470	29.2		9.9	4/28/2011	BB	EPA TO15	
2-Propanol	<20	20	<49.2	49.2		9.9	4/28/2011	BB	EPA TO15	
4-Ethyltoluene	<5.0	5.0	<24.6	24.6		9.9	4/28/2011	BB	EPA TO15	
4-Methyl-2-pentanone (MIBK)	<9.9	9.9	<40.6	40.6		9.9	4/28/2011	BB	EPA TO15	
Allyl Chloride	<5.0	5.0	<15.6	15.6		9.9	4/28/2011	BB	EPA TO15	
Benzene	<5.0	5.0	<16.0	16.0		9.9	4/28/2011	BB	EPA TO15	
Benzyl Chloride	<20	20	<104	104	L3,N1	9.9	4/28/2011	BB	EPA TO15	
Bromodichloromethane	<5.0	5.0	<33.5	33.5		9.9	4/28/2011	BB	EPA TO15	
Bromoethene(Vinyl Bromide)	<5.0	5.0	<21.9	21.9		9.9	4/28/2011	BB	EPA TO15	
Bromoform	<5.0	5.0	<51.7	51.7		9.9	4/28/2011	BB	EPA TO15	
Bromomethane	<5.0	5.0	<19.4	19.4		9.9	4/28/2011	BB	EPA TO15	
Carbon disulfide	<5.0	5.0	<15.6	15.6		9.9	4/28/2011	BB	EPA TO15	
Carbon tetrachloride	<5.0	5.0	<31.5	31.5		9.9	4/28/2011	BB	EPA TO15	
Chlorobenzene	<5.0	5.0	<23.0	23.0		9.9	4/28/2011	BB	EPA TO15	
Chloroethane	<5.0	5.0	<13.2	13.2		9.9	4/28/2011	BB	EPA TO15	
Chloroform	<5.0	5.0	<24.4	24.4		9.9	4/28/2011	BB	EPA TO15	
Chloromethane	<5.0	5.0	<10.3	10.3		9.9	4/28/2011	BB	EPA TO15	
cis-1,2-Dichloroethene	<5.0	5.0	<19.8	19.8		9.9	4/28/2011	BB	EPA TO15	
cis-1,3-Dichloropropene	<5.0	5.0	<22.7	22.7		9.9	4/28/2011	BB	EPA TO15	
Cyclohexane	<5.0	5.0	<17.2	17.2		9.9	4/28/2011	BB	EPA TO15	
Dibromochloromethane	<5.0	5.0	<42.6	42.6		9.9	4/28/2011	BB	EPA TO15	
Dichlorodifluoromethane	<5.0	5.0	<24.7	24.7		9.9	4/28/2011	BB	EPA TO15	
Dichlorotetrafluoroethane(F-114)	<5.0	5.0	<35.0	35.0		9.9	4/28/2011	BB	EPA TO15	
Ethyl Acetate	<5.0	5.0	<18.0	18.0		9.9	4/28/2011	BB	EPA TO15	
Ethylbenzene	<5.0	5.0	<21.7	21.7		9.9	4/28/2011	BB	EPA TO15	
Freon 113	<5.0	5.0	<38.3	38.3		9.9	4/28/2011	BB	EPA TO15	
Heptane	11	5.0	45	20.5		9.9	4/28/2011	BB	EPA TO15	
Hexachlorobutadiene	<9.9	9.9	<106	106	V1,L3,N1	9.9	4/28/2011	BB	EPA TO15	

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	<u>ppbv</u>		<u>ug/m3</u>		<u>Data</u>		<u>Date</u>	<u>Analyst</u>	<u>Method</u>	
	<u>Result</u>	<u>RL</u>	<u>Result</u>	<u>RL</u>	<u>Qualifiers</u>	<u>Dilution</u>	<u>Analyzed</u>			
Volatile Organic Compounds by EPA TO-15										
Sample ID: PUD1452-01 (SVMW-1-30-40) - cont.			Sampling Time: min				Sampled: 04/25/11 10:37			
Hexane	<5.0	5.0	<17.6	17.6		9.9	4/28/2011	BB	EPA TO15	
Isopropylbenzene	<5.0	5.0	<24.6	24.6		9.9	4/28/2011	BB	EPA TO15	
m,p-Xylenes	<9.9	9.9	<43.0	43.0		9.9	4/28/2011	BB	EPA TO15	
Methylene Chloride	<5.0	5.0	<17.4	17.4		9.9	4/28/2011	BB	EPA TO15	
Methyl-tert-butyl Ether (MTBE)	<9.9	9.9	<35.7	35.7		9.9	4/28/2011	BB	EPA TO15	
Naphthalene	<50	50	<262	262	V1,L3	9.9	4/28/2011	BB	EPA TO15	
n-Butylbenzene	<5.0	5.0	<27.4	27.4	V1,L3	9.9	4/28/2011	BB	EPA TO15	
n-Nonane (C9)	<5.0	5.0	<26.2	26.2		9.9	4/28/2011	BB	EPA TO15	
n-Octane (C8)	<5.0	5.0	<23.4	23.4		9.9	4/28/2011	BB	EPA TO15	
n-Propylbenzene	<5.0	5.0	<24.6	24.6		9.9	4/28/2011	BB	EPA TO15	
o-Xylene	<5.0	5.0	<21.7	21.7		9.9	4/28/2011	BB	EPA TO15	
Propene	380	5.0	650	8.61		9.9	4/28/2011	BB	EPA TO15	
sec-Butylbenzene	<5.0	5.0	<27.4	27.4		9.9	4/28/2011	BB	EPA TO15	
Styrene	<5.0	5.0	<21.3	21.3		9.9	4/28/2011	BB	EPA TO15	
tert-Butylbenzene	<5.0	5.0	<27.4	27.4		9.9	4/28/2011	BB	EPA TO15	
Tetrachloroethene	14	5.0	95	33.9		9.9	4/28/2011	BB	EPA TO15	
Tetrahydrofuran	<20	20	<59.0	59.0		9.9	4/28/2011	BB	EPA TO15	
Toluene	<5.0	5.0	<18.8	18.8		9.9	4/28/2011	BB	EPA TO15	
trans-1,2-Dichloroethene	<5.0	5.0	<19.8	19.8		9.9	4/28/2011	BB	EPA TO15	
trans-1,3-Dichloropropene	<5.0	5.0	<22.7	22.7		9.9	4/28/2011	BB	EPA TO15	
Trichloroethene	13	5.0	70	26.9		9.9	4/28/2011	BB	EPA TO15	
Trichlorofluoromethane	<5.0	5.0	<28.1	28.1		9.9	4/28/2011	BB	EPA TO15	
Vinyl Acetate	<5.0	5.0	<17.6	17.6	N1	9.9	4/28/2011	BB	EPA TO15	
Vinyl chloride	<5.0	5.0	<12.8	12.8		9.9	4/28/2011	BB	EPA TO15	
Surrogate: 4-Bromofluorobenzene	98 %		Limit 70-130							

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	<u>ppbv</u>		<u>ug/m3</u>		Data Qualifiers	Dilution	Date Analyzed	Analyst	Method
	Result	RL	Result	RL					
Volatile Organic Compounds by EPA TO-15									
Sample ID: PUD1452-01RE1 (SVMW-1-30-40)					Sampling Time: min			Sampled: 04/25/11 10:37	
1,1-Dichloroethene	2300	50	9100	198	100	4/29/2011	BB	EPA TO15	
Acetone	1500	500	3600	1190	100	4/29/2011	BB	EPA TO15	
Surrogate: 4-Bromofluorobenzene	97 %		Limit 70-130						

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	<u>ppbv</u>		<u>ug/m3</u>		Data Qualifiers	Dilution	Date Analyzed	Analyst	Method
	Result	RL	Result	RL					
Volatile Organic Compounds by EPA TO-15									
Sample ID: PUD1452-01RE2 (SVMW-1-30-40)					Sampling Time: min		Sampled: 04/25/11 10:37		
2-Hexanone	9.5	5.0	39	20.5		9.9	4/29/2011	BB	EPA TO15
Surrogate: 4-Bromofluorobenzene	98 %		Limit 70-130						

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	<u>ppbv</u>		<u>ug/m3</u>		<u>Data</u>		<u>Date</u>	<u>Analyst</u>	<u>Method</u>
	<u>Result</u>	<u>RL</u>	<u>Result</u>	<u>RL</u>	<u>Qualifiers</u>	<u>Dilution</u>	<u>Analyzed</u>		
Volatile Organic Compounds by EPA TO-15									
Sample ID: PUD1452-02 (SVMW-1-90-100)			Sampling Time: min				Sampled: 04/25/11 11:08		
1,1,1-Trichloroethane	<5.0	5.0	<27.3	27.3		9.9	4/28/2011	BB	EPA TO15
1,1,2,2-Tetrachloroethane	<5.0	5.0	<34.3	34.3		9.9	4/28/2011	BB	EPA TO15
1,1,2-Trichloroethane	<5.0	5.0	<27.3	27.3		9.9	4/28/2011	BB	EPA TO15
1,1-Dichloroethane	12	5.0	49	20.2		9.9	4/28/2011	BB	EPA TO15
1,2,4-Trichlorobenzene	<20	20	<148	148	L3,N1	9.9	4/28/2011	BB	EPA TO15
1,2,4-Trimethylbenzene	<5.0	5.0	<24.6	24.6		9.9	4/28/2011	BB	EPA TO15
1,2-Dibromoethane (EDB)	<9.9	9.9	<76.1	76.1		9.9	4/28/2011	BB	EPA TO15
1,2-Dichlorobenzene	<5.0	5.0	<30.1	30.1		9.9	4/28/2011	BB	EPA TO15
1,2-Dichloroethane	<5.0	5.0	<20.2	20.2		9.9	4/28/2011	BB	EPA TO15
1,2-Dichloropropane	<5.0	5.0	<23.1	23.1		9.9	4/28/2011	BB	EPA TO15
1,3,5-Trimethylbenzene	<5.0	5.0	<24.6	24.6		9.9	4/28/2011	BB	EPA TO15
1,3-Butadiene	<5.0	5.0	<11.1	11.1		9.9	4/28/2011	BB	EPA TO15
1,3-Dichlorobenzene	<5.0	5.0	<30.1	30.1		9.9	4/28/2011	BB	EPA TO15
1,4-Dichlorobenzene	<5.0	5.0	<30.1	30.1		9.9	4/28/2011	BB	EPA TO15
2,2,4-Trimethylpentane	<5.0	5.0	<23.4	23.4		9.9	4/28/2011	BB	EPA TO15
2-Butanone (MEK)	260	9.9	770	29.2		9.9	4/28/2011	BB	EPA TO15
2-Propanol	<20	20	<49.2	49.2		9.9	4/28/2011	BB	EPA TO15
4-Ethyltoluene	<5.0	5.0	<24.6	24.6		9.9	4/28/2011	BB	EPA TO15
4-Methyl-2-pentanone (MIBK)	<9.9	9.9	<40.6	40.6		9.9	4/28/2011	BB	EPA TO15
Allyl Chloride	<5.0	5.0	<15.6	15.6		9.9	4/28/2011	BB	EPA TO15
Benzene	<5.0	5.0	<16.0	16.0		9.9	4/28/2011	BB	EPA TO15
Benzyl Chloride	<20	20	<104	104	L3,N1	9.9	4/28/2011	BB	EPA TO15
Bromodichloromethane	<5.0	5.0	<33.5	33.5		9.9	4/28/2011	BB	EPA TO15
Bromoethene(Vinyl Bromide)	<5.0	5.0	<21.9	21.9		9.9	4/28/2011	BB	EPA TO15
Bromoform	<5.0	5.0	<51.7	51.7		9.9	4/28/2011	BB	EPA TO15
Bromomethane	<5.0	5.0	<19.4	19.4		9.9	4/28/2011	BB	EPA TO15
Carbon disulfide	<5.0	5.0	<15.6	15.6		9.9	4/28/2011	BB	EPA TO15
Carbon tetrachloride	<5.0	5.0	<31.5	31.5		9.9	4/28/2011	BB	EPA TO15
Chlorobenzene	<5.0	5.0	<23.0	23.0		9.9	4/28/2011	BB	EPA TO15
Chloroethane	<5.0	5.0	<13.2	13.2		9.9	4/28/2011	BB	EPA TO15
Chloroform	<5.0	5.0	<24.4	24.4		9.9	4/28/2011	BB	EPA TO15
Chloromethane	<5.0	5.0	<10.3	10.3		9.9	4/28/2011	BB	EPA TO15
cis-1,2-Dichloroethene	<5.0	5.0	<19.8	19.8		9.9	4/28/2011	BB	EPA TO15
cis-1,3-Dichloropropene	<5.0	5.0	<22.7	22.7		9.9	4/28/2011	BB	EPA TO15
Cyclohexane	<5.0	5.0	<17.2	17.2		9.9	4/28/2011	BB	EPA TO15
Dibromochloromethane	<5.0	5.0	<42.6	42.6		9.9	4/28/2011	BB	EPA TO15
Dichlorodifluoromethane	<5.0	5.0	<24.7	24.7		9.9	4/28/2011	BB	EPA TO15
Dichlorotetrafluoroethane(F-114)	<5.0	5.0	<35.0	35.0		9.9	4/28/2011	BB	EPA TO15
Ethyl Acetate	<5.0	5.0	<18.0	18.0		9.9	4/28/2011	BB	EPA TO15
Ethylbenzene	<5.0	5.0	<21.7	21.7		9.9	4/28/2011	BB	EPA TO15
Freon 113	<5.0	5.0	<38.3	38.3		9.9	4/28/2011	BB	EPA TO15
Heptane	18	5.0	74	20.5		9.9	4/28/2011	BB	EPA TO15
Hexachlorobutadiene	<9.9	9.9	<106	106	V1,L3,N1	9.9	4/28/2011	BB	EPA TO15
Hexane	<5.0	5.0	<17.6	17.6		9.9	4/28/2011	BB	EPA TO15
Isopropylbenzene	<5.0	5.0	<24.6	24.6		9.9	4/28/2011	BB	EPA TO15

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	<u>Result</u>	<u>RL</u>	<u>Result</u>	<u>RL</u>	<u>Qualifiers</u>	<u>Dilution</u>	<u>Analyzed</u>		
Volatile Organic Compounds by EPA TO-15									
Sample ID: PUD1452-02 (SVMW-1-90-100) - cont.			Sampling Time: min				Sampled: 04/25/11 11:08		
m,p-Xylenes	<9.9	9.9	<43.0	43.0		9.9	4/28/2011	BB	EPA TO15
Methylene Chloride	<5.0	5.0	<17.4	17.4		9.9	4/28/2011	BB	EPA TO15
Methyl-tert-butyl Ether (MTBE)	<9.9	9.9	<35.7	35.7		9.9	4/28/2011	BB	EPA TO15
Naphthalene	<50	50	<262	262	V1,L3	9.9	4/28/2011	BB	EPA TO15
n-Butylbenzene	<5.0	5.0	<27.4	27.4	V1,L3	9.9	4/28/2011	BB	EPA TO15
n-Nonane (C9)	<5.0	5.0	<26.2	26.2		9.9	4/28/2011	BB	EPA TO15
n-Octane (C8)	<5.0	5.0	<23.4	23.4		9.9	4/28/2011	BB	EPA TO15
n-Propylbenzene	<5.0	5.0	<24.6	24.6		9.9	4/28/2011	BB	EPA TO15
o-Xylene	<5.0	5.0	<21.7	21.7		9.9	4/28/2011	BB	EPA TO15
sec-Butylbenzene	<5.0	5.0	<27.4	27.4		9.9	4/28/2011	BB	EPA TO15
Styrene	<5.0	5.0	<21.3	21.3		9.9	4/28/2011	BB	EPA TO15
tert-Butylbenzene	<5.0	5.0	<27.4	27.4		9.9	4/28/2011	BB	EPA TO15
Tetrachloroethene	31	5.0	210	33.9		9.9	4/28/2011	BB	EPA TO15
Tetrahydrofuran	<20	20	<59.0	59.0		9.9	4/28/2011	BB	EPA TO15
Toluene	<5.0	5.0	<18.8	18.8		9.9	4/28/2011	BB	EPA TO15
trans-1,2-Dichloroethene	<5.0	5.0	<19.8	19.8		9.9	4/28/2011	BB	EPA TO15
trans-1,3-Dichloropropene	<5.0	5.0	<22.7	22.7		9.9	4/28/2011	BB	EPA TO15
Trichloroethene	22	5.0	120	26.9		9.9	4/28/2011	BB	EPA TO15
Trichlorofluoromethane	<5.0	5.0	<28.1	28.1		9.9	4/28/2011	BB	EPA TO15
Vinyl Acetate	<5.0	5.0	<17.6	17.6	N1	9.9	4/28/2011	BB	EPA TO15
Vinyl chloride	<5.0	5.0	<12.8	12.8		9.9	4/28/2011	BB	EPA TO15
Surrogate: 4-Bromofluorobenzene	94 %		Limit 70-130						

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	<u>ppbv</u>		<u>ug/m3</u>		Data Qualifiers	Dilution	Date Analyzed	Analyst	Method
	Result	RL	Result	RL					
Volatile Organic Compounds by EPA TO-15									
Sample ID: PUD1452-02RE1 (SVMW-1-90-100)			Sampling Time: min			Sampled: 04/25/11 11:08			
1,1-Dichloroethene	6700	100	27000	396		200	4/29/2011	BB	EPA TO15
Acetone	2500	1000	5900	2380		200	4/29/2011	BB	EPA TO15
Propene	1400	100	2400	172		200	4/29/2011	BB	EPA TO15
Surrogate: 4-Bromofluorobenzene	97 %		Limit 70-130						

ARCADIS U.S., Inc. - Phoenix
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 Gregory Guimond

Work Order: PUD1452
 Project: UPCO-3994011/TO15
 Project Number: UPCO

Received: 04/25/11
 Reported: 05/03/11 13:49

	<u>ppbv</u>		<u>ug/m3</u>		Data Qualifiers	Dilution	Date Analyzed	Analyst	Method
	Result	RL	Result	RL					
Volatile Organic Compounds by EPA TO-15									
Sample ID: PUD1452-02RE2 (SVMW-1-90-100)					Sampling Time: min		Sampled: 04/25/11 11:08		
2-Hexanone	15	5.0	61	20.5		9.9	4/30/2011	BB	EPA TO15
Surrogate: 4-Bromofluorobenzene	96 %		Limit 70-130						

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	<u>ppbv</u>		<u>ug/m3</u>		<u>Data</u>		<u>Date</u>	<u>Analyst</u>	<u>Method</u>	
	<u>Result</u>	<u>RL</u>	<u>Result</u>	<u>RL</u>	<u>Qualifiers</u>	<u>Dilution</u>	<u>Analyzed</u>			
Volatile Organic Compounds by EPA TO-15										
Sample ID: PUD1452-03 (SVMW-1-140-150)			Sampling Time: min				Sampled: 04/25/11 11:43			
1,1,1-Trichloroethane	<5.0	5.0	<27.3	27.3		9.9	4/28/2011	BB	EPA TO15	
1,1,2,2-Tetrachloroethane	<5.0	5.0	<34.3	34.3		9.9	4/28/2011	BB	EPA TO15	
1,1,2-Trichloroethane	<5.0	5.0	<27.3	27.3		9.9	4/28/2011	BB	EPA TO15	
1,1-Dichloroethane	<5.0	5.0	<20.2	20.2		9.9	4/28/2011	BB	EPA TO15	
1,1-Dichloroethene	280	5.0	1100	19.8		9.9	4/28/2011	BB	EPA TO15	
1,2,4-Trichlorobenzene	<20	20	<148	148	L3,N1	9.9	4/28/2011	BB	EPA TO15	
1,2,4-Trimethylbenzene	<5.0	5.0	<24.6	24.6		9.9	4/28/2011	BB	EPA TO15	
1,2-Dibromoethane (EDB)	<9.9	9.9	<76.1	76.1		9.9	4/28/2011	BB	EPA TO15	
1,2-Dichlorobenzene	<5.0	5.0	<30.1	30.1		9.9	4/28/2011	BB	EPA TO15	
1,2-Dichloroethane	<5.0	5.0	<20.2	20.2		9.9	4/28/2011	BB	EPA TO15	
1,2-Dichloropropane	<5.0	5.0	<23.1	23.1		9.9	4/28/2011	BB	EPA TO15	
1,3,5-Trimethylbenzene	<5.0	5.0	<24.6	24.6		9.9	4/28/2011	BB	EPA TO15	
1,3-Butadiene	<5.0	5.0	<11.1	11.1		9.9	4/28/2011	BB	EPA TO15	
1,3-Dichlorobenzene	<5.0	5.0	<30.1	30.1		9.9	4/28/2011	BB	EPA TO15	
1,4-Dichlorobenzene	<5.0	5.0	<30.1	30.1		9.9	4/28/2011	BB	EPA TO15	
2,2,4-Trimethylpentane	<5.0	5.0	<23.4	23.4		9.9	4/28/2011	BB	EPA TO15	
2-Butanone (MEK)	100	9.9	300	29.2		9.9	4/28/2011	BB	EPA TO15	
2-Hexanone	<9.9	9.9	<40.6	40.6	L3	9.9	4/28/2011	BB	EPA TO15	
2-Propanol	<20	20	<49.2	49.2		9.9	4/28/2011	BB	EPA TO15	
4-Ethyltoluene	<5.0	5.0	<24.6	24.6		9.9	4/28/2011	BB	EPA TO15	
4-Methyl-2-pentanone (MIBK)	<9.9	9.9	<40.6	40.6		9.9	4/28/2011	BB	EPA TO15	
Allyl Chloride	<5.0	5.0	<15.6	15.6		9.9	4/28/2011	BB	EPA TO15	
Benzene	<5.0	5.0	<16.0	16.0		9.9	4/28/2011	BB	EPA TO15	
Benzyl Chloride	<20	20	<104	104	L3,N1	9.9	4/28/2011	BB	EPA TO15	
Bromodichloromethane	<5.0	5.0	<33.5	33.5		9.9	4/28/2011	BB	EPA TO15	
Bromoethene(Vinyl Bromide)	<5.0	5.0	<21.9	21.9		9.9	4/28/2011	BB	EPA TO15	
Bromoform	<5.0	5.0	<51.7	51.7		9.9	4/28/2011	BB	EPA TO15	
Bromomethane	<5.0	5.0	<19.4	19.4		9.9	4/28/2011	BB	EPA TO15	
Carbon disulfide	<5.0	5.0	<15.6	15.6		9.9	4/28/2011	BB	EPA TO15	
Carbon tetrachloride	<5.0	5.0	<31.5	31.5		9.9	4/28/2011	BB	EPA TO15	
Chlorobenzene	<5.0	5.0	<23.0	23.0		9.9	4/28/2011	BB	EPA TO15	
Chloroethane	<5.0	5.0	<13.2	13.2		9.9	4/28/2011	BB	EPA TO15	
Chloroform	<5.0	5.0	<24.4	24.4		9.9	4/28/2011	BB	EPA TO15	
Chloromethane	<5.0	5.0	<10.3	10.3		9.9	4/28/2011	BB	EPA TO15	
cis-1,2-Dichloroethene	<5.0	5.0	<19.8	19.8		9.9	4/28/2011	BB	EPA TO15	
cis-1,3-Dichloropropene	<5.0	5.0	<22.7	22.7		9.9	4/28/2011	BB	EPA TO15	
Cyclohexane	<5.0	5.0	<17.2	17.2		9.9	4/28/2011	BB	EPA TO15	
Dibromochloromethane	<5.0	5.0	<42.6	42.6		9.9	4/28/2011	BB	EPA TO15	
Dichlorodifluoromethane	<5.0	5.0	<24.7	24.7		9.9	4/28/2011	BB	EPA TO15	
Dichlorotetrafluoroethane(F-114)	<5.0	5.0	<35.0	35.0		9.9	4/28/2011	BB	EPA TO15	
Ethyl Acetate	<5.0	5.0	<18.0	18.0		9.9	4/28/2011	BB	EPA TO15	
Ethylbenzene	<5.0	5.0	<21.7	21.7		9.9	4/28/2011	BB	EPA TO15	
Freon 113	<5.0	5.0	<38.3	38.3		9.9	4/28/2011	BB	EPA TO15	
Heptane	5.9	5.0	24	20.5		9.9	4/28/2011	BB	EPA TO15	
Hexachlorobutadiene	<9.9	9.9	<106	106	V1,L3,N1	9.9	4/28/2011	BB	EPA TO15	

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Received: 04/25/11
 Reported: 05/03/11 13:49

	<u>ppbv</u>		<u>ug/m3</u>		<u>Data</u>		<u>Date</u>	<u>Analyst</u>	<u>Method</u>
	<u>Result</u>	<u>RL</u>	<u>Result</u>	<u>RL</u>	<u>Qualifiers</u>	<u>Dilution</u>	<u>Analyzed</u>		
Volatile Organic Compounds by EPA TO-15									
Sample ID: PUD1452-03 (SVMW-1-140-150) - cont.	Sampling Time: min				Sampled: 04/25/11 11:43				
Hexane	<5.0	5.0	<17.6	17.6		9.9	4/28/2011	BB	EPA TO15
Isopropylbenzene	<5.0	5.0	<24.6	24.6		9.9	4/28/2011	BB	EPA TO15
m,p-Xylenes	<9.9	9.9	<43.0	43.0		9.9	4/28/2011	BB	EPA TO15
Methylene Chloride	<5.0	5.0	<17.4	17.4		9.9	4/28/2011	BB	EPA TO15
Methyl-tert-butyl Ether (MTBE)	<9.9	9.9	<35.7	35.7		9.9	4/28/2011	BB	EPA TO15
Naphthalene	<50	50	<262	262	V1,L3	9.9	4/28/2011	BB	EPA TO15
n-Butylbenzene	<5.0	5.0	<27.4	27.4	V1,L3	9.9	4/28/2011	BB	EPA TO15
n-Nonane (C9)	<5.0	5.0	<26.2	26.2		9.9	4/28/2011	BB	EPA TO15
n-Octane (C8)	<5.0	5.0	<23.4	23.4		9.9	4/28/2011	BB	EPA TO15
n-Propylbenzene	<5.0	5.0	<24.6	24.6		9.9	4/28/2011	BB	EPA TO15
o-Xylene	<5.0	5.0	<21.7	21.7		9.9	4/28/2011	BB	EPA TO15
Propene	300	5.0	520	8.61		9.9	4/28/2011	BB	EPA TO15
sec-Butylbenzene	<5.0	5.0	<27.4	27.4		9.9	4/28/2011	BB	EPA TO15
Styrene	<5.0	5.0	<21.3	21.3		9.9	4/28/2011	BB	EPA TO15
tert-Butylbenzene	<5.0	5.0	<27.4	27.4		9.9	4/28/2011	BB	EPA TO15
Tetrachloroethene	56	5.0	380	33.9		9.9	4/28/2011	BB	EPA TO15
Tetrahydrofuran	<20	20	<59.0	59.0		9.9	4/28/2011	BB	EPA TO15
Toluene	<5.0	5.0	<18.8	18.8		9.9	4/28/2011	BB	EPA TO15
trans-1,2-Dichloroethene	<5.0	5.0	<19.8	19.8		9.9	4/28/2011	BB	EPA TO15
trans-1,3-Dichloropropene	<5.0	5.0	<22.7	22.7		9.9	4/28/2011	BB	EPA TO15
Trichloroethene	<5.0	5.0	<26.9	26.9		9.9	4/28/2011	BB	EPA TO15
Trichlorofluoromethane	<5.0	5.0	<28.1	28.1		9.9	4/28/2011	BB	EPA TO15
Vinyl Acetate	<5.0	5.0	<17.6	17.6	N1	9.9	4/28/2011	BB	EPA TO15
Vinyl chloride	<5.0	5.0	<12.8	12.8		9.9	4/28/2011	BB	EPA TO15
Surrogate: 4-Bromofluorobenzene	97 %		Limit 70-130						

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	<u>ppbv</u>		<u>ug/m3</u>		Data Qualifiers	Dilution	Date Analyzed	Analyst	Method
	Result	RL	Result	RL					
Volatile Organic Compounds by EPA TO-15									
Sample ID: PUD1452-03RE1 (SVMW-1-140-150)					Sampling Time: min		Sampled: 04/25/11 11:43		
Acetone	1200	500	2900	1190		100	4/29/2011	BB	EPA TO15
Surrogate: 4-Bromofluorobenzene	97 %		Limit 70-130						

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	<u>ppbv</u>		<u>ug/m3</u>		<u>Data</u>		<u>Date</u>	<u>Analyst</u>	<u>Method</u>	
	<u>Result</u>	<u>RL</u>	<u>Result</u>	<u>RL</u>	<u>Qualifiers</u>	<u>Dilution</u>	<u>Analyzed</u>			
Volatile Organic Compounds by EPA TO-15										
Sample ID: PUD1452-04 (SVMW-1-190-200)			Sampling Time: min				Sampled: 04/25/11 12:09			
1,1,1-Trichloroethane	<5.0	5.0	<27.3	27.3		10	4/28/2011	BB	EPA TO15	
1,1,2,2-Tetrachloroethane	<5.0	5.0	<34.3	34.3		10	4/28/2011	BB	EPA TO15	
1,1,2-Trichloroethane	<5.0	5.0	<27.3	27.3		10	4/28/2011	BB	EPA TO15	
1,1-Dichloroethane	<5.0	5.0	<20.2	20.2		10	4/28/2011	BB	EPA TO15	
1,1-Dichloroethene	210	5.0	830	19.8		10	4/28/2011	BB	EPA TO15	
1,2,4-Trichlorobenzene	<20	20	<148	148	L3,N1	10	4/28/2011	BB	EPA TO15	
1,2,4-Trimethylbenzene	<5.0	5.0	<24.6	24.6		10	4/28/2011	BB	EPA TO15	
1,2-Dibromoethane (EDB)	<10	10	<76.8	76.8		10	4/28/2011	BB	EPA TO15	
1,2-Dichlorobenzene	<5.0	5.0	<30.1	30.1		10	4/28/2011	BB	EPA TO15	
1,2-Dichloroethane	<5.0	5.0	<20.2	20.2		10	4/28/2011	BB	EPA TO15	
1,2-Dichloropropane	<5.0	5.0	<23.1	23.1		10	4/28/2011	BB	EPA TO15	
1,3,5-Trimethylbenzene	<5.0	5.0	<24.6	24.6		10	4/28/2011	BB	EPA TO15	
1,3-Butadiene	<5.0	5.0	<11.1	11.1		10	4/28/2011	BB	EPA TO15	
1,3-Dichlorobenzene	<5.0	5.0	<30.1	30.1		10	4/28/2011	BB	EPA TO15	
1,4-Dichlorobenzene	<5.0	5.0	<30.1	30.1		10	4/28/2011	BB	EPA TO15	
2,2,4-Trimethylpentane	<5.0	5.0	<23.4	23.4		10	4/28/2011	BB	EPA TO15	
2-Butanone (MEK)	84	10	250	29.5		10	4/28/2011	BB	EPA TO15	
2-Hexanone	<10	10	<41.0	41.0	L3	10	4/28/2011	BB	EPA TO15	
2-Propanol	<20	20	<49.2	49.2		10	4/28/2011	BB	EPA TO15	
4-Ethyltoluene	<5.0	5.0	<24.6	24.6		10	4/28/2011	BB	EPA TO15	
4-Methyl-2-pentanone (MIBK)	<10	10	<41.0	41.0		10	4/28/2011	BB	EPA TO15	
Acetone	450	50	1100	119		10	4/28/2011	BB	EPA TO15	
Allyl Chloride	<5.0	5.0	<15.6	15.6		10	4/28/2011	BB	EPA TO15	
Benzene	<5.0	5.0	<16.0	16.0		10	4/28/2011	BB	EPA TO15	
Benzyl Chloride	<20	20	<104	104	L3,N1	10	4/28/2011	BB	EPA TO15	
Bromodichloromethane	<5.0	5.0	<33.5	33.5		10	4/28/2011	BB	EPA TO15	
Bromoethene(Vinyl Bromide)	<5.0	5.0	<21.9	21.9		10	4/28/2011	BB	EPA TO15	
Bromoform	<5.0	5.0	<51.7	51.7		10	4/28/2011	BB	EPA TO15	
Bromomethane	<5.0	5.0	<19.4	19.4		10	4/28/2011	BB	EPA TO15	
Carbon disulfide	<5.0	5.0	<15.6	15.6		10	4/28/2011	BB	EPA TO15	
Carbon tetrachloride	<5.0	5.0	<31.5	31.5		10	4/28/2011	BB	EPA TO15	
Chlorobenzene	<5.0	5.0	<23.0	23.0		10	4/28/2011	BB	EPA TO15	
Chloroethane	<5.0	5.0	<13.2	13.2		10	4/28/2011	BB	EPA TO15	
Chloroform	<5.0	5.0	<24.4	24.4		10	4/28/2011	BB	EPA TO15	
Chloromethane	<5.0	5.0	<10.3	10.3		10	4/28/2011	BB	EPA TO15	
cis-1,2-Dichloroethene	<5.0	5.0	<19.8	19.8		10	4/28/2011	BB	EPA TO15	
cis-1,3-Dichloropropene	<5.0	5.0	<22.7	22.7		10	4/28/2011	BB	EPA TO15	
Cyclohexane	<5.0	5.0	<17.2	17.2		10	4/28/2011	BB	EPA TO15	
Dibromochloromethane	<5.0	5.0	<42.6	42.6		10	4/28/2011	BB	EPA TO15	
Dichlorodifluoromethane	<5.0	5.0	<24.7	24.7		10	4/28/2011	BB	EPA TO15	
Dichlorotetrafluoroethane(F-114)	<5.0	5.0	<35.0	35.0		10	4/28/2011	BB	EPA TO15	
Ethyl Acetate	<5.0	5.0	<18.0	18.0		10	4/28/2011	BB	EPA TO15	
Ethylbenzene	<5.0	5.0	<21.7	21.7		10	4/28/2011	BB	EPA TO15	
Freon 113	<5.0	5.0	<38.3	38.3		10	4/28/2011	BB	EPA TO15	
Heptane	6.1	5.0	25	20.5		10	4/28/2011	BB	EPA TO15	

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	<u>ppbv</u>		<u>ug/m3</u>		<u>Data</u>		<u>Date</u>	<u>Analyst</u>	<u>Method</u>
	<u>Result</u>	<u>RL</u>	<u>Result</u>	<u>RL</u>	<u>Qualifiers</u>	<u>Dilution</u>	<u>Analyzed</u>		
Volatile Organic Compounds by EPA TO-15									
Sample ID: PUD1452-04 (SVMW-1-190-200) - cont.					Sampling Time: min			Sampled: 04/25/11 12:09	
Hexachlorobutadiene	<10	10	<107	107	V1,L3,N1	10	4/28/2011	BB	EPA TO15
Hexane	<5.0	5.0	<17.6	17.6		10	4/28/2011	BB	EPA TO15
Isopropylbenzene	<5.0	5.0	<24.6	24.6		10	4/28/2011	BB	EPA TO15
m,p-Xylenes	<10	10	<43.4	43.4		10	4/28/2011	BB	EPA TO15
Methylene Chloride	<5.0	5.0	<17.4	17.4		10	4/28/2011	BB	EPA TO15
Methyl-tert-butyl Ether (MTBE)	<10	10	<36.1	36.1		10	4/28/2011	BB	EPA TO15
Naphthalene	<50	50	<262	262	V1,L3	10	4/28/2011	BB	EPA TO15
n-Butylbenzene	<5.0	5.0	<27.4	27.4	V1,L3	10	4/28/2011	BB	EPA TO15
n-Nonane (C9)	<5.0	5.0	<26.2	26.2		10	4/28/2011	BB	EPA TO15
n-Octane (C8)	<5.0	5.0	<23.4	23.4		10	4/28/2011	BB	EPA TO15
n-Propylbenzene	<5.0	5.0	<24.6	24.6		10	4/28/2011	BB	EPA TO15
o-Xylene	<5.0	5.0	<21.7	21.7		10	4/28/2011	BB	EPA TO15
Propene	160	5.0	280	8.61		10	4/28/2011	BB	EPA TO15
sec-Butylbenzene	<5.0	5.0	<27.4	27.4		10	4/28/2011	BB	EPA TO15
Styrene	<5.0	5.0	<21.3	21.3		10	4/28/2011	BB	EPA TO15
tert-Butylbenzene	<5.0	5.0	<27.4	27.4		10	4/28/2011	BB	EPA TO15
Tetrachloroethene	<5.0	5.0	<33.9	33.9		10	4/28/2011	BB	EPA TO15
Tetrahydrofuran	<20	20	<59.0	59.0		10	4/28/2011	BB	EPA TO15
Toluene	<5.0	5.0	<18.8	18.8		10	4/28/2011	BB	EPA TO15
trans-1,2-Dichloroethene	<5.0	5.0	<19.8	19.8		10	4/28/2011	BB	EPA TO15
trans-1,3-Dichloropropene	<5.0	5.0	<22.7	22.7		10	4/28/2011	BB	EPA TO15
Trichloroethene	<5.0	5.0	<26.9	26.9		10	4/28/2011	BB	EPA TO15
Trichlorofluoromethane	<5.0	5.0	<28.1	28.1		10	4/28/2011	BB	EPA TO15
Vinyl Acetate	<5.0	5.0	<17.6	17.6	N1	10	4/28/2011	BB	EPA TO15
Vinyl chloride	<5.0	5.0	<12.8	12.8		10	4/28/2011	BB	EPA TO15
Surrogate: 4-Bromofluorobenzene	98 %		Limit 70-130						

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PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	RL	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Volatile Organic Compounds by EPA TO-15							
11D1017-BLK1							
1,1,1-Trichloroethane	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
1,1,2,2-Tetrachloroethane	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
1,1,2-Trichloroethane	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
1,1-Dichloroethane	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
1,1-Dichloroethene	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
1,2,4-Trichlorobenzene	<2.0	2.0	N1	ppbv	11D1017	11D1017-BLK1	04-27-2011
1,2,4-Trimethylbenzene	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
1,2-Dibromoethane (EDB)	<1.0	1.0		ppbv	11D1017	11D1017-BLK1	04-27-2011
1,2-Dichlorobenzene	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
1,2-Dichloroethane	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
1,2-Dichloropropane	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
1,3,5-Trimethylbenzene	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
1,3-Butadiene	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
1,3-Dichlorobenzene	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
1,4-Dichlorobenzene	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
2,2,4-Trimethylpentane	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
2-Butanone (MEK)	<1.0	1.0		ppbv	11D1017	11D1017-BLK1	04-27-2011
2-Hexanone	<1.0	1.0		ppbv	11D1017	11D1017-BLK1	04-27-2011
2-Propanol	<2.0	2.0		ppbv	11D1017	11D1017-BLK1	04-27-2011
4-Ethyltoluene	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
4-Methyl-2-pentanone (MIBK)	<1.0	1.0		ppbv	11D1017	11D1017-BLK1	04-27-2011
Acetone	<5.0	5.0		ppbv	11D1017	11D1017-BLK1	04-27-2011
Allyl Chloride	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
Benzene	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
Benzyl Chloride	<2.0	2.0	N1	ppbv	11D1017	11D1017-BLK1	04-27-2011
Bromodichloromethane	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
Bromoethene(Vinyl Bromide)	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
Bromoform	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
Bromomethane	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
Carbon disulfide	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
Carbon tetrachloride	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
Chlorobenzene	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
Chloroethane	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
Chloroform	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
Chloromethane	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
cis-1,2-Dichloroethene	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
cis-1,3-Dichloropropene	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
Cyclohexane	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
Dibromochloromethane	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011

ARCADIS U.S., Inc. - Phoenix
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Blank - Cont.

Analyte	Blank Value	RL	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Volatile Organic Compounds by EPA TO-15							
11D1017-BLK1							
Dichlorodifluoromethane	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
Dichlorotetrafluoroethane(F-114)	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
Ethyl Acetate	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
Ethylbenzene	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
Freon 113	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
Heptane	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
Hexachlorobutadiene	<1.0	1.0	V1,N1	ppbv	11D1017	11D1017-BLK1	04-27-2011
Hexane	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
Isopropylbenzene	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
m,p-Xylenes	<1.0	1.0		ppbv	11D1017	11D1017-BLK1	04-27-2011
Methylene Chloride	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
Methyl-tert-butyl Ether (MTBE)	<1.0	1.0		ppbv	11D1017	11D1017-BLK1	04-27-2011
Naphthalene	<5.0	5.0	V1	ppbv	11D1017	11D1017-BLK1	04-27-2011
n-Butylbenzene	<0.50	0.50	V1	ppbv	11D1017	11D1017-BLK1	04-27-2011
n-Nonane (C9)	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
n-Octane (C8)	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
n-Propylbenzene	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
o-Xylene	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
Propene	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
sec-Butylbenzene	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
Styrene	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
tert-Butylbenzene	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
Tetrachloroethene	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
Tetrahydrofuran	<2.0	2.0		ppbv	11D1017	11D1017-BLK1	04-27-2011
Toluene	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
trans-1,2-Dichloroethene	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
trans-1,3-Dichloropropene	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
Trichloroethene	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
Trichlorofluoromethane	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
Vinyl Acetate	<0.50	0.50	N1	ppbv	11D1017	11D1017-BLK1	04-27-2011
Vinyl chloride	<0.50	0.50		ppbv	11D1017	11D1017-BLK1	04-27-2011
Surrogate: 4-Bromofluorobenzene	96%				11D1017	11D1017-BLK1	04-27-2011
11E0012-BLK1							
1,1,1-Trichloroethane	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
1,1,2,2-Tetrachloroethane	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
1,1,2-Trichloroethane	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
1,1-Dichloroethane	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
1,1-Dichloroethene	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
1,2,4-Trichlorobenzene	<2.0	2.0		ppbv	11E0012	11E0012-BLK1	04-29-2011
1,2,4-Trimethylbenzene	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011

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Analyte	Blank Value	RL	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Volatile Organic Compounds by EPA TO-15							
11E0012-BLK1							
1,2-Dibromoethane (EDB)	<1.0	1.0		ppbv	11E0012	11E0012-BLK1	04-29-2011
1,2-Dichlorobenzene	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
1,2-Dichloroethane	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
1,2-Dichloropropane	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
1,3,5-Trimethylbenzene	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
1,3-Butadiene	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
1,3-Dichlorobenzene	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
1,4-Dichlorobenzene	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
2,2,4-Trimethylpentane	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
2-Butanone (MEK)	<1.0	1.0		ppbv	11E0012	11E0012-BLK1	04-29-2011
2-Hexanone	<1.0	1.0		ppbv	11E0012	11E0012-BLK1	04-29-2011
2-Propanol	<2.0	2.0		ppbv	11E0012	11E0012-BLK1	04-29-2011
4-Ethyltoluene	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
4-Methyl-2-pentanone (MIBK)	<1.0	1.0		ppbv	11E0012	11E0012-BLK1	04-29-2011
Acetone	<5.0	5.0		ppbv	11E0012	11E0012-BLK1	04-29-2011
Allyl Chloride	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
Benzene	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
Benzyl Chloride	<2.0	2.0	N1	ppbv	11E0012	11E0012-BLK1	04-29-2011
Bromodichloromethane	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
Bromoethene(Vinyl Bromide)	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
Bromoform	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
Bromomethane	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
Carbon disulfide	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
Carbon tetrachloride	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
Chlorobenzene	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
Chloroethane	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
Chloroform	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
Chloromethane	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
cis-1,2-Dichloroethene	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
cis-1,3-Dichloropropene	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
Cyclohexane	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
Dibromochloromethane	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
Dichlorodifluoromethane	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
Dichlorotetrafluoroethane(F-114)	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
Ethyl Acetate	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
Ethylbenzene	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
Freon 113	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
Heptane	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
Hexachlorobutadiene	<1.0	1.0		ppbv	11E0012	11E0012-BLK1	04-29-2011
Hexane	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
Isopropylbenzene	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011

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Project Number: UPCO

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Reported: 05/03/11 13:49

Blank - Cont.

Analyte	Blank Value	RL	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Volatile Organic Compounds by EPA TO-15							
11E0012-BLK1							
m,p-Xylenes	<1.0	1.0		ppbv	11E0012	11E0012-BLK1	04-29-2011
Methylene Chloride	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
Methyl-tert-butyl Ether (MTBE)	<1.0	1.0		ppbv	11E0012	11E0012-BLK1	04-29-2011
Naphthalene	<5.0	5.0		ppbv	11E0012	11E0012-BLK1	04-29-2011
n-Butylbenzene	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
n-Nonane (C9)	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
n-Octane (C8)	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
n-Propylbenzene	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
o-Xylene	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
Propene	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
sec-Butylbenzene	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
Styrene	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
tert-Butylbenzene	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
Tetrachloroethene	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
Tetrahydrofuran	<2.0	2.0		ppbv	11E0012	11E0012-BLK1	04-29-2011
Toluene	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
trans-1,2-Dichloroethene	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
trans-1,3-Dichloropropene	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
Trichloroethene	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
Trichlorofluoromethane	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
Vinyl Acetate	<0.50	0.50	N1	ppbv	11E0012	11E0012-BLK1	04-29-2011
Vinyl chloride	<0.50	0.50		ppbv	11E0012	11E0012-BLK1	04-29-2011
Surrogate: 4-Bromofluorobenzene	98%				11E0012	11E0012-BLK1	04-29-2011

LCS

Analyte	Result	RL	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Volatile Organic Compounds by EPA TO-15								
11D1017-BS1								
1,1,1-Trichloroethane	9.39	0.50		ppbv	94%	70 - 130	11D1017	04-27-2011
1,1,2,2-Tetrachloroethane	10.5	0.50		ppbv	105%	70 - 130	11D1017	04-27-2011
1,1,2-Trichloroethane	9.10	0.50		ppbv	91%	70 - 130	11D1017	04-27-2011
1,1-Dichloroethane	9.69	0.50		ppbv	97%	70 - 130	11D1017	04-27-2011
1,1-Dichloroethene	9.96	0.50		ppbv	100%	70 - 130	11D1017	04-27-2011
1,2,4-Trichlorobenzene	12.5	2.00	N1	ppbv	125%	70 - 130	11D1017	04-27-2011
1,2,4-Trimethylbenzene	11.6	0.50		ppbv	116%	70 - 130	11D1017	04-27-2011
1,2-Dibromoethane (EDB)	9.16	1.00		ppbv	92%	70 - 130	11D1017	04-27-2011
1,2-Dichlorobenzene	11.7	0.50		ppbv	117%	70 - 130	11D1017	04-27-2011
1,2-Dichloroethane	9.15	0.50		ppbv	92%	70 - 130	11D1017	04-27-2011
1,2-Dichloropropane	9.11	0.50		ppbv	91%	70 - 130	11D1017	04-27-2011

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LCS - Cont.

Analyte	Result	RL	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Volatile Organic Compounds by EPA TO-15								
11D1017-BS1								
1,3,5-Trimethylbenzene	11.0	0.50		ppbv	110%	70 - 130	11D1017	04-27-2011
1,3-Butadiene	11.3	0.50		ppbv	113%	70 - 130	11D1017	04-27-2011
1,3-Dichlorobenzene	11.2	0.50		ppbv	112%	70 - 130	11D1017	04-27-2011
1,4-Dichlorobenzene	11.4	0.50		ppbv	114%	70 - 130	11D1017	04-27-2011
2,2,4-Trimethylpentane	10.7	0.50		ppbv	107%	70 - 130	11D1017	04-27-2011
2-Butanone (MEK)	10.2	1.00		ppbv	102%	70 - 130	11D1017	04-27-2011
2-Hexanone	12.9	1.00		ppbv	129%	70 - 130	11D1017	04-27-2011
2-Propanol	11.1	2.00		ppbv	111%	70 - 130	11D1017	04-27-2011
4-Ethyltoluene	11.4	0.50		ppbv	114%	70 - 130	11D1017	04-27-2011
4-Methyl-2-pentanone (MIBK)	11.7	1.00		ppbv	117%	70 - 130	11D1017	04-27-2011
Acetone	8.79	5.00		ppbv	88%	70 - 130	11D1017	04-27-2011
Allyl Chloride	10.7	0.50		ppbv	107%	70 - 130	11D1017	04-27-2011
Benzene	9.17	0.50		ppbv	92%	70 - 130	11D1017	04-27-2011
Benzyl Chloride	12.9	2.00	N1	ppbv	129%	70 - 130	11D1017	04-27-2011
Bromodichloromethane	8.88	0.50		ppbv	89%	70 - 130	11D1017	04-27-2011
Bromoethene(Vinyl Bromide)	10.3	0.50		ppbv	103%	70 - 130	11D1017	04-27-2011
Bromoform	9.71	0.50		ppbv	97%	70 - 130	11D1017	04-27-2011
Bromomethane	9.46	0.50		ppbv	95%	70 - 130	11D1017	04-27-2011
Carbon disulfide	9.00	0.50		ppbv	90%	70 - 130	11D1017	04-27-2011
Carbon tetrachloride	8.89	0.50		ppbv	89%	70 - 130	11D1017	04-27-2011
Chlorobenzene	9.28	0.50		ppbv	93%	70 - 130	11D1017	04-27-2011
Chloroethane	9.98	0.50		ppbv	100%	70 - 130	11D1017	04-27-2011
Chloroform	9.37	0.50		ppbv	94%	70 - 130	11D1017	04-27-2011
Chloromethane	10.1	0.50		ppbv	101%	70 - 130	11D1017	04-27-2011
cis-1,2-Dichloroethene	9.76	0.50		ppbv	98%	70 - 130	11D1017	04-27-2011
cis-1,3-Dichloropropene	9.51	0.50		ppbv	95%	70 - 130	11D1017	04-27-2011
Cyclohexane	10.4	0.50		ppbv	104%	70 - 130	11D1017	04-27-2011
Dibromochloromethane	8.79	0.50		ppbv	88%	70 - 130	11D1017	04-27-2011
Dichlorodifluoromethane	9.25	0.50		ppbv	92%	70 - 130	11D1017	04-27-2011
Dichlorotetrafluoroethane(F-114)	9.12	0.50		ppbv	91%	70 - 130	11D1017	04-27-2011
Ethyl Acetate	11.1	0.50		ppbv	111%	70 - 130	11D1017	04-27-2011
Ethylbenzene	9.84	0.50		ppbv	98%	70 - 130	11D1017	04-27-2011
Freon 113	9.11	0.50		ppbv	91%	70 - 130	11D1017	04-27-2011
Heptane	10.3	0.50		ppbv	103%	70 - 130	11D1017	04-27-2011
Hexachlorobutadiene	13.3	1.00	V1,L3,N1	ppbv	133%	70 - 130	11D1017	04-27-2011
Hexane	10.5	0.50		ppbv	105%	70 - 130	11D1017	04-27-2011
Isopropylbenzene	11.2	0.50		ppbv	112%	70 - 130	11D1017	04-27-2011
m,p-Xylenes	19.8	1.00		ppbv	99%	70 - 130	11D1017	04-27-2011

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
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Work Order: PUD1452
Project: UPCO-3994011/TO15
Project Number: UPCO

Received: 04/25/11
Reported: 05/03/11 13:49

LCS - Cont.

Analyte	Result	RL	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Volatile Organic Compounds by EPA TO-15								
11D1017-BS1								
Methylene Chloride	9.45	0.50		ppbv	94%	70 - 130	11D1017	04-27-2011
Methyl-tert-butyl Ether (MTBE)	10.8	1.00		ppbv	108%	70 - 130	11D1017	04-27-2011
Naphthalene	15.6	5.00	V1,L3	ppbv	156%	70 - 130	11D1017	04-27-2011
n-Butylbenzene	13.5	0.50	V1,L3	ppbv	135%	70 - 130	11D1017	04-27-2011
n-Nonane (C9)	10.5	0.50		ppbv	105%	70 - 130	11D1017	04-27-2011
n-Octane (C8)	11.0	0.50		ppbv	110%	70 - 130	11D1017	04-27-2011
n-Propylbenzene	11.6	0.50		ppbv	116%	70 - 130	11D1017	04-27-2011
o-Xylene	9.78	0.50		ppbv	98%	70 - 130	11D1017	04-27-2011
Propene	11.4	0.50		ppbv	114%	70 - 130	11D1017	04-27-2011
sec-Butylbenzene	11.9	0.50		ppbv	119%	70 - 130	11D1017	04-27-2011
Styrene	10.7	0.50		ppbv	107%	70 - 130	11D1017	04-27-2011
tert-Butylbenzene	12.0	0.50		ppbv	120%	70 - 130	11D1017	04-27-2011
Tetrachloroethene	8.86	0.50		ppbv	89%	70 - 130	11D1017	04-27-2011
Tetrahydrofuran	11.5	2.00		ppbv	115%	70 - 130	11D1017	04-27-2011
Toluene	9.54	0.50		ppbv	95%	70 - 130	11D1017	04-27-2011
trans-1,2-Dichloroethene	9.61	0.50		ppbv	96%	70 - 130	11D1017	04-27-2011
trans-1,3-Dichloropropene	9.69	0.50		ppbv	97%	70 - 130	11D1017	04-27-2011
Trichloroethene	9.81	0.50		ppbv	98%	70 - 130	11D1017	04-27-2011
Trichlorofluoromethane	8.92	0.50		ppbv	89%	70 - 130	11D1017	04-27-2011
Vinyl Acetate	10.4	0.50	N1	ppbv	104%	70 - 130	11D1017	04-27-2011
Vinyl chloride	10.2	0.50		ppbv	102%	70 - 130	11D1017	04-27-2011
<i>Surrogate: 4-Bromofluorobenzene</i>	10.6	0.50			106%	70 - 130	11D1017	04-27-2011
11E0012-BS1								
1,1,1-Trichloroethane	9.61	0.50		ppbv	96%	70 - 130	11E0012	04-29-2011
1,1,1,2-Tetrachloroethane	8.85	0.50		ppbv	88%	70 - 130	11E0012	04-29-2011
1,1,2-Trichloroethane	7.08	0.50		ppbv	71%	70 - 130	11E0012	04-29-2011
1,1-Dichloroethane	10.6	0.50		ppbv	106%	70 - 130	11E0012	04-29-2011
1,1-Dichloroethene	11.4	0.50		ppbv	114%	70 - 130	11E0012	04-29-2011
1,2,4-Trichlorobenzene	8.59	2.00		ppbv	86%	70 - 130	11E0012	04-29-2011
1,2,4-Trimethylbenzene	9.41	0.50		ppbv	94%	70 - 130	11E0012	04-29-2011
1,2-Dibromoethane (EDB)	7.28	1.00		ppbv	73%	70 - 130	11E0012	04-29-2011
1,2-Dichlorobenzene	9.44	0.50		ppbv	94%	70 - 130	11E0012	04-29-2011
1,2-Dichloroethane	9.37	0.50		ppbv	94%	70 - 130	11E0012	04-29-2011
1,2-Dichloropropane	7.86	0.50		ppbv	79%	70 - 130	11E0012	04-29-2011
1,3,5-Trimethylbenzene	8.97	0.50		ppbv	90%	70 - 130	11E0012	04-29-2011
1,3-Butadiene	12.8	0.50		ppbv	128%	70 - 130	11E0012	04-29-2011
1,3-Dichlorobenzene	9.09	0.50		ppbv	91%	70 - 130	11E0012	04-29-2011
1,4-Dichlorobenzene	9.13	0.50		ppbv	91%	70 - 130	11E0012	04-29-2011

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Received: 04/25/11
 Reported: 05/03/11 13:49

LCS - Cont.

Analyte	Result	RL	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Volatile Organic Compounds by EPA TO-15								
11E0012-BS1								
2,2,4-Trimethylpentane	9.46	0.50		ppbv	95%	70 - 130	11E0012	04-29-2011
2-Butanone (MEK)	8.60	1.00		ppbv	86%	70 - 130	11E0012	04-29-2011
2-Hexanone	9.50	1.00		ppbv	95%	70 - 130	11E0012	04-29-2011
2-Propanol	9.98	2.00		ppbv	100%	70 - 130	11E0012	04-29-2011
4-Ethyltoluene	9.26	0.50		ppbv	93%	70 - 130	11E0012	04-29-2011
4-Methyl-2-pentanone (MIBK)	8.77	1.00		ppbv	88%	70 - 130	11E0012	04-29-2011
Acetone	7.45	5.00		ppbv	74%	70 - 130	11E0012	04-29-2011
Allyl Chloride	11.8	0.50		ppbv	118%	70 - 130	11E0012	04-29-2011
Benzene	9.43	0.50		ppbv	94%	70 - 130	11E0012	04-29-2011
Benzyl Chloride	11.1	2.00	N1	ppbv	111%	70 - 130	11E0012	04-29-2011
Bromodichloromethane	7.59	0.50		ppbv	76%	70 - 130	11E0012	04-29-2011
Bromoethene(Vinyl Bromide)	11.2	0.50		ppbv	112%	70 - 130	11E0012	04-29-2011
Bromoform	8.32	0.50		ppbv	83%	70 - 130	11E0012	04-29-2011
Bromomethane	10.3	0.50		ppbv	103%	70 - 130	11E0012	04-29-2011
Carbon disulfide	10.2	0.50		ppbv	102%	70 - 130	11E0012	04-29-2011
Carbon tetrachloride	9.52	0.50		ppbv	95%	70 - 130	11E0012	04-29-2011
Chlorobenzene	7.75	0.50		ppbv	78%	70 - 130	11E0012	04-29-2011
Chloroethane	11.0	0.50		ppbv	110%	70 - 130	11E0012	04-29-2011
Chloroform	9.23	0.50		ppbv	92%	70 - 130	11E0012	04-29-2011
Chloromethane	10.8	0.50		ppbv	108%	70 - 130	11E0012	04-29-2011
cis-1,2-Dichloroethene	10.0	0.50		ppbv	100%	70 - 130	11E0012	04-29-2011
cis-1,3-Dichloropropene	7.95	0.50		ppbv	80%	70 - 130	11E0012	04-29-2011
Cyclohexane	11.2	0.50		ppbv	112%	70 - 130	11E0012	04-29-2011
Dibromochloromethane	7.14	0.50		ppbv	71%	70 - 130	11E0012	04-29-2011
Dichlorodifluoromethane	9.34	0.50		ppbv	93%	70 - 130	11E0012	04-29-2011
Dichlorotetrafluoroethane(F-114)	10.3	0.50		ppbv	103%	70 - 130	11E0012	04-29-2011
Ethyl Acetate	9.35	0.50		ppbv	94%	70 - 130	11E0012	04-29-2011
Ethylbenzene	7.93	0.50		ppbv	79%	70 - 130	11E0012	04-29-2011
Freon 113	9.90	0.50		ppbv	99%	70 - 130	11E0012	04-29-2011
Heptane	8.96	0.50		ppbv	90%	70 - 130	11E0012	04-29-2011
Hexachlorobutadiene	8.56	1.00		ppbv	86%	70 - 130	11E0012	04-29-2011
Hexane	11.1	0.50		ppbv	111%	70 - 130	11E0012	04-29-2011
Isopropylbenzene	8.94	0.50		ppbv	89%	70 - 130	11E0012	04-29-2011
m,p-Xylenes	16.4	1.00		ppbv	82%	70 - 130	11E0012	04-29-2011
Methylene Chloride	10.6	0.50		ppbv	106%	70 - 130	11E0012	04-29-2011
Methyl-tert-butyl Ether (MTBE)	8.44	1.00		ppbv	84%	70 - 130	11E0012	04-29-2011
Naphthalene	10.6	5.00		ppbv	106%	70 - 130	11E0012	04-29-2011
n-Butylbenzene	11.1	0.50		ppbv	111%	70 - 130	11E0012	04-29-2011

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Reported: 05/03/11 13:49

LCS - Cont.

Analyte	Result	RL	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Volatile Organic Compounds by EPA TO-15								
11E0012-BS1								
n-Nonane (C9)	8.61	0.50		ppbv	86%	70 - 130	11E0012	04-29-2011
n-Octane (C8)	8.41	0.50		ppbv	84%	70 - 130	11E0012	04-29-2011
n-Propylbenzene	9.43	0.50		ppbv	94%	70 - 130	11E0012	04-29-2011
o-Xylene	7.99	0.50		ppbv	80%	70 - 130	11E0012	04-29-2011
Propene	10.9	0.50		ppbv	109%	70 - 130	11E0012	04-29-2011
sec-Butylbenzene	10.0	0.50		ppbv	100%	70 - 130	11E0012	04-29-2011
Styrene	8.63	0.50		ppbv	86%	70 - 130	11E0012	04-29-2011
tert-Butylbenzene	9.76	0.50		ppbv	98%	70 - 130	11E0012	04-29-2011
Tetrachloroethene	7.03	0.50		ppbv	70%	70 - 130	11E0012	04-29-2011
Tetrahydrofuran	9.63	2.00		ppbv	96%	70 - 130	11E0012	04-29-2011
Toluene	7.51	0.50		ppbv	75%	70 - 130	11E0012	04-29-2011
trans-1,2-Dichloroethene	10.4	0.50		ppbv	104%	70 - 130	11E0012	04-29-2011
trans-1,3-Dichloropropene	7.69	0.50		ppbv	77%	70 - 130	11E0012	04-29-2011
Trichloroethene	8.64	0.50		ppbv	86%	70 - 130	11E0012	04-29-2011
Trichlorofluoromethane	9.94	0.50		ppbv	99%	70 - 130	11E0012	04-29-2011
Vinyl Acetate	8.75	0.50	N1	ppbv	88%	70 - 130	11E0012	04-29-2011
Vinyl chloride	11.0	0.50		ppbv	110%	70 - 130	11E0012	04-29-2011
<i>Surrogate: 4-Bromofluorobenzene</i>	10.3	0.50			103%	70 - 130	11E0012	04-29-2011

LCS Dup

Analyte	Result	RL	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Volatile Organic Compounds by EPA TO-15												
11D1017-BSD1												
1,1,1-Trichloroethane	9.69	0.50		ppbv	10.0	97%	70 - 130	3	30	11D1017		04-27-2011
1,1,2,2-Tetrachloroethane	11.3	0.50		ppbv	10.0	113%	70 - 130	8	30	11D1017		04-27-2011
1,1,2-Trichloroethane	9.52	0.50		ppbv	10.0	95%	70 - 130	5	30	11D1017		04-27-2011
1,1-Dichloroethane	9.77	0.50		ppbv	10.0	98%	70 - 130	0.8	30	11D1017		04-27-2011
1,1-Dichloroethene	10.2	0.50		ppbv	10.0	102%	70 - 130	3	30	11D1017		04-27-2011
1,2,4-Trichlorobenzene	13.1	2.00	L3,N1	ppbv	10.0	131%	70 - 130	5	30	11D1017		04-27-2011
1,2,4-Trimethylbenzene	12.3	0.50		ppbv	10.0	123%	70 - 130	7	30	11D1017		04-27-2011
1,2-Dibromoethane (EDB)	9.62	1.00		ppbv	10.0	96%	70 - 130	5	30	11D1017		04-27-2011
1,2-Dichlorobenzene	12.5	0.50		ppbv	10.0	125%	70 - 130	6	30	11D1017		04-27-2011
1,2-Dichloroethane	9.23	0.50		ppbv	10.0	92%	70 - 130	0.9	30	11D1017		04-27-2011
1,2-Dichloropropane	9.65	0.50		ppbv	10.0	96%	70 - 130	6	30	11D1017		04-27-2011
1,3,5-Trimethylbenzene	11.7	0.50		ppbv	10.0	117%	70 - 130	6	30	11D1017		04-27-2011
1,3-Butadiene	11.6	0.50		ppbv	10.0	116%	70 - 130	3	30	11D1017		04-27-2011
1,3-Dichlorobenzene	11.9	0.50		ppbv	10.0	119%	70 - 130	6	30	11D1017		04-27-2011
1,4-Dichlorobenzene	12.2	0.50		ppbv	10.0	122%	70 - 130	7	30	11D1017		04-27-2011

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LCS Dup - Cont.

Analyte	Result	RL	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Volatile Organic Compounds by EPA TO-15												
11D1017-BSD1												
2,2,4-Trimethylpentane	11.5	0.50		ppbv	10.0	115%	70 - 130	7	30	11D1017		04-27-2011
2-Butanone (MEK)	10.6	1.00		ppbv	10.0	106%	70 - 130	4	30	11D1017		04-27-2011
2-Hexanone	13.9	1.00	L3	ppbv	10.0	139%	70 - 130	7	30	11D1017		04-27-2011
2-Propanol	11.6	2.00		ppbv	10.0	116%	70 - 130	4	30	11D1017		04-27-2011
4-Ethyltoluene	12.2	0.50		ppbv	10.0	122%	70 - 130	7	30	11D1017		04-27-2011
4-Methyl-2-pentanone (MIBK)	12.5	1.00		ppbv	10.0	125%	70 - 130	7	30	11D1017		04-27-2011
Acetone	8.99	5.00		ppbv	10.0	90%	70 - 130	2	30	11D1017		04-27-2011
Allyl Chloride	10.7	0.50		ppbv	10.0	107%	70 - 130	0	30	11D1017		04-27-2011
Benzene	9.21	0.50		ppbv	10.0	92%	70 - 130	0.4	30	11D1017		04-27-2011
Benzyl Chloride	13.8	2.00	L3,N1	ppbv	10.0	138%	70 - 130	7	30	11D1017		04-27-2011
Bromodichloromethane	9.34	0.50		ppbv	10.0	93%	70 - 130	5	30	11D1017		04-27-2011
Bromoethene(Vinyl Bromide)	10.5	0.50		ppbv	10.0	105%	70 - 130	2	30	11D1017		04-27-2011
Bromoform	10.3	0.50		ppbv	10.0	103%	70 - 130	6	30	11D1017		04-27-2011
Bromomethane	9.73	0.50		ppbv	10.0	97%	70 - 130	3	30	11D1017		04-27-2011
Carbon disulfide	9.35	0.50		ppbv	10.0	94%	70 - 130	4	30	11D1017		04-27-2011
Carbon tetrachloride	9.14	0.50		ppbv	10.0	91%	70 - 130	3	30	11D1017		04-27-2011
Chlorobenzene	9.95	0.50		ppbv	10.0	100%	70 - 130	7	30	11D1017		04-27-2011
Chloroethane	9.98	0.50		ppbv	10.0	100%	70 - 130	0	30	11D1017		04-27-2011
Chloroform	9.67	0.50		ppbv	10.0	97%	70 - 130	3	30	11D1017		04-27-2011
Chloromethane	10.5	0.50		ppbv	10.0	105%	70 - 130	4	30	11D1017		04-27-2011
cis-1,2-Dichloroethene	9.96	0.50		ppbv	10.0	100%	70 - 130	2	30	11D1017		04-27-2011
cis-1,3-Dichloropropene	10.0	0.50		ppbv	10.0	100%	70 - 130	5	30	11D1017		04-27-2011
Cyclohexane	10.6	0.50		ppbv	10.0	106%	70 - 130	3	30	11D1017		04-27-2011
Dibromochloromethane	9.27	0.50		ppbv	10.0	93%	70 - 130	5	30	11D1017		04-27-2011
Dichlorodifluoromethane	9.73	0.50		ppbv	10.0	97%	70 - 130	5	30	11D1017		04-27-2011
Dichlorotetrafluoroethane(F-114)	9.34	0.50		ppbv	10.0	93%	70 - 130	2	30	11D1017		04-27-2011
Ethyl Acetate	11.4	0.50		ppbv	10.0	114%	70 - 130	3	30	11D1017		04-27-2011
Ethylbenzene	10.7	0.50		ppbv	10.0	107%	70 - 130	8	30	11D1017		04-27-2011
Freon 113	9.34	0.50		ppbv	10.0	93%	70 - 130	2	30	11D1017		04-27-2011
Heptane	11.0	0.50		ppbv	10.0	110%	70 - 130	7	30	11D1017		04-27-2011
Hexachlorobutadiene	13.8	1.00	V1,L3,N	ppbv	10.0	138%	70 - 130	4	30	11D1017		04-27-2011
Hexane	10.8	0.50		ppbv	10.0	108%	70 - 130	3	30	11D1017		04-27-2011
Isopropylbenzene	12.0	0.50		ppbv	10.0	120%	70 - 130	7	30	11D1017		04-27-2011
m,p-Xylenes	21.1	1.00		ppbv	20.0	105%	70 - 130	6	30	11D1017		04-27-2011
Methylene Chloride	9.79	0.50		ppbv	10.0	98%	70 - 130	4	30	11D1017		04-27-2011
Methyl-tert-butyl Ether (MTBE)	11.0	1.00		ppbv	10.0	110%	70 - 130	2	30	11D1017		04-27-2011
Naphthalene	16.3	5.00	V1,L3	ppbv	10.0	163%	70 - 130	5	30	11D1017		04-27-2011
n-Butylbenzene	14.3	0.50	V1,L3	ppbv	10.0	143%	70 - 130	6	30	11D1017		04-27-2011
n-Nonane (C9)	11.2	0.50		ppbv	10.0	112%	70 - 130	7	30	11D1017		04-27-2011
n-Octane (C8)	11.4	0.50		ppbv	10.0	114%	70 - 130	4	30	11D1017		04-27-2011
n-Propylbenzene	12.6	0.50		ppbv	10.0	126%	70 - 130	8	30	11D1017		04-27-2011

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LCS Dup - Cont.

Analyte	Result	RL	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Volatile Organic Compounds by EPA TO-15												
11D1017-BSD1												
o-Xylene	10.5	0.50		ppbv	10.0	105%	70 - 130	7	30	11D1017		04-27-2011
Propene	11.9	0.50		ppbv	10.0	119%	70 - 130	5	30	11D1017		04-27-2011
sec-Butylbenzene	12.8	0.50		ppbv	10.0	128%	70 - 130	7	30	11D1017		04-27-2011
Styrene	11.5	0.50		ppbv	10.0	115%	70 - 130	7	30	11D1017		04-27-2011
tert-Butylbenzene	12.8	0.50		ppbv	10.0	128%	70 - 130	7	30	11D1017		04-27-2011
Tetrachloroethene	9.42	0.50		ppbv	10.0	94%	70 - 130	6	30	11D1017		04-27-2011
Tetrahydrofuran	11.8	2.00		ppbv	10.0	118%	70 - 130	2	30	11D1017		04-27-2011
Toluene	9.96	0.50		ppbv	10.0	100%	70 - 130	4	30	11D1017		04-27-2011
trans-1,2-Dichloroethene	9.84	0.50		ppbv	10.0	98%	70 - 130	2	30	11D1017		04-27-2011
trans-1,3-Dichloropropene	10.2	0.50		ppbv	10.0	102%	70 - 130	5	30	11D1017		04-27-2011
Trichloroethene	10.5	0.50		ppbv	10.0	105%	70 - 130	6	30	11D1017		04-27-2011
Trichlorofluoromethane	9.13	0.50		ppbv	10.0	91%	70 - 130	2	30	11D1017		04-27-2011
Vinyl Acetate	10.8	0.50	N1	ppbv	10.0	108%	70 - 130	4	30	11D1017		04-27-2011
Vinyl chloride	10.6	0.50		ppbv	10.0	106%	70 - 130	4	30	11D1017		04-27-2011
Surrogate: 4-Bromofluorobenzene	10.6	0.50		ppbv	10.0	106%	70 - 130			11D1017		04-27-2011
11E0012-BSD1												
1,1,1-Trichloroethane	8.39	0.50		ppbv	10.0	84%	70 - 130	14	30	11E0012		04-29-2011
1,1,2,2-Tetrachloroethane	8.88	0.50		ppbv	10.0	89%	70 - 130	0.3	30	11E0012		04-29-2011
1,1,2-Trichloroethane	7.56	0.50		ppbv	10.0	76%	70 - 130	7	30	11E0012		04-29-2011
1,1-Dichloroethane	8.92	0.50		ppbv	10.0	89%	70 - 130	17	30	11E0012		04-29-2011
1,1-Dichloroethene	9.09	0.50		ppbv	10.0	91%	70 - 130	22	30	11E0012		04-29-2011
1,2,4-Trichlorobenzene	9.56	2.00		ppbv	10.0	96%	70 - 130	11	30	11E0012		04-29-2011
1,2,4-Trimethylbenzene	9.44	0.50		ppbv	10.0	94%	70 - 130	0.3	30	11E0012		04-29-2011
1,2-Dibromoethane (EDB)	7.58	1.00		ppbv	10.0	76%	70 - 130	4	30	11E0012		04-29-2011
1,2-Dichlorobenzene	9.45	0.50		ppbv	10.0	94%	70 - 130	0.1	30	11E0012		04-29-2011
1,2-Dichloroethane	8.35	0.50		ppbv	10.0	84%	70 - 130	12	30	11E0012		04-29-2011
1,2-Dichloropropane	7.76	0.50		ppbv	10.0	78%	70 - 130	1	30	11E0012		04-29-2011
1,3,5-Trimethylbenzene	8.98	0.50		ppbv	10.0	90%	70 - 130	0.1	30	11E0012		04-29-2011
1,3-Butadiene	10.7	0.50		ppbv	10.0	107%	70 - 130	18	30	11E0012		04-29-2011
1,3-Dichlorobenzene	9.15	0.50		ppbv	10.0	92%	70 - 130	0.7	30	11E0012		04-29-2011
1,4-Dichlorobenzene	9.31	0.50		ppbv	10.0	93%	70 - 130	2	30	11E0012		04-29-2011
2,2,4-Trimethylpentane	9.05	0.50		ppbv	10.0	90%	70 - 130	4	30	11E0012		04-29-2011
2-Butanone (MEK)	9.46	1.00		ppbv	10.0	95%	70 - 130	10	30	11E0012		04-29-2011
2-Hexanone	11.0	1.00		ppbv	10.0	110%	70 - 130	14	30	11E0012		04-29-2011
2-Propanol	10.2	2.00		ppbv	10.0	102%	70 - 130	3	30	11E0012		04-29-2011
4-Ethyltoluene	9.37	0.50		ppbv	10.0	94%	70 - 130	1	30	11E0012		04-29-2011
4-Methyl-2-pentanone (MIBK)	9.89	1.00		ppbv	10.0	99%	70 - 130	12	30	11E0012		04-29-2011
Acetone	8.30	5.00		ppbv	10.0	83%	70 - 130	11	30	11E0012		04-29-2011
Allyl Chloride	9.64	0.50		ppbv	10.0	96%	70 - 130	20	30	11E0012		04-29-2011
Benzene	8.25	0.50		ppbv	10.0	82%	70 - 130	13	30	11E0012		04-29-2011

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Gregory Guimond

Work Order: PUD1452
Project: UPCO-3994011/TO15
Project Number: UPCO

Received: 04/25/11
Reported: 05/03/11 13:49

LCS Dup - Cont.

Analyte	Result	RL	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Volatile Organic Compounds by EPA TO-15												
11E0012-BSD1												
Benzyl Chloride	11.0	2.00	NI	ppbv	10.0	110%	70 - 130	0.2	30	11E0012		04-29-2011
Bromodichloromethane	7.57	0.50		ppbv	10.0	76%	70 - 130	0.3	30	11E0012		04-29-2011
Bromoethene(Vinyl Bromide)	9.17	0.50		ppbv	10.0	92%	70 - 130	20	30	11E0012		04-29-2011
Bromoform	8.21	0.50		ppbv	10.0	82%	70 - 130	1	30	11E0012		04-29-2011
Bromomethane	8.69	0.50		ppbv	10.0	87%	70 - 130	17	30	11E0012		04-29-2011
Carbon disulfide	8.47	0.50		ppbv	10.0	85%	70 - 130	19	30	11E0012		04-29-2011
Carbon tetrachloride	8.11	0.50		ppbv	10.0	81%	70 - 130	16	30	11E0012		04-29-2011
Chlorobenzene	7.70	0.50		ppbv	10.0	77%	70 - 130	0.6	30	11E0012		04-29-2011
Chloroethane	9.05	0.50		ppbv	10.0	90%	70 - 130	20	30	11E0012		04-29-2011
Chloroform	8.46	0.50		ppbv	10.0	85%	70 - 130	9	30	11E0012		04-29-2011
Chloromethane	9.77	0.50		ppbv	10.0	98%	70 - 130	10	30	11E0012		04-29-2011
cis-1,2-Dichloroethene	8.64	0.50		ppbv	10.0	86%	70 - 130	15	30	11E0012		04-29-2011
cis-1,3-Dichloropropene	8.09	0.50		ppbv	10.0	81%	70 - 130	2	30	11E0012		04-29-2011
Cyclohexane	9.55	0.50		ppbv	10.0	96%	70 - 130	16	30	11E0012		04-29-2011
Dibromochloromethane	7.35	0.50		ppbv	10.0	74%	70 - 130	3	30	11E0012		04-29-2011
Dichlorodifluoromethane	8.76	0.50		ppbv	10.0	88%	70 - 130	6	30	11E0012		04-29-2011
Dichlorotetrafluoroethane(F-114)	8.38	0.50		ppbv	10.0	84%	70 - 130	21	30	11E0012		04-29-2011
Ethyl Acetate	10.4	0.50		ppbv	10.0	104%	70 - 130	10	30	11E0012		04-29-2011
Ethylbenzene	8.22	0.50		ppbv	10.0	82%	70 - 130	4	30	11E0012		04-29-2011
Freon 113	8.23	0.50		ppbv	10.0	82%	70 - 130	18	30	11E0012		04-29-2011
Heptane	8.77	0.50		ppbv	10.0	88%	70 - 130	2	30	11E0012		04-29-2011
Hexachlorobutadiene	10.1	1.00		ppbv	10.0	101%	70 - 130	17	30	11E0012		04-29-2011
Hexane	9.63	0.50		ppbv	10.0	96%	70 - 130	15	30	11E0012		04-29-2011
Isopropylbenzene	9.12	0.50		ppbv	10.0	91%	70 - 130	2	30	11E0012		04-29-2011
m,p-Xylenes	16.9	1.00		ppbv	20.0	85%	70 - 130	3	30	11E0012		04-29-2011
Methylene Chloride	8.93	0.50		ppbv	10.0	89%	70 - 130	17	30	11E0012		04-29-2011
Methyl-tert-butyl Ether (MTBE)	9.37	1.00		ppbv	10.0	94%	70 - 130	10	30	11E0012		04-29-2011
Naphthalene	12.2	5.00		ppbv	10.0	122%	70 - 130	14	30	11E0012		04-29-2011
n-Butylbenzene	11.0	0.50		ppbv	10.0	110%	70 - 130	0.3	30	11E0012		04-29-2011
n-Nonane (C9)	8.94	0.50		ppbv	10.0	89%	70 - 130	4	30	11E0012		04-29-2011
n-Octane (C8)	8.89	0.50		ppbv	10.0	89%	70 - 130	6	30	11E0012		04-29-2011
n-Propylbenzene	9.57	0.50		ppbv	10.0	96%	70 - 130	1	30	11E0012		04-29-2011
o-Xylene	8.30	0.50		ppbv	10.0	83%	70 - 130	4	30	11E0012		04-29-2011
Propene	10.7	0.50		ppbv	10.0	107%	70 - 130	2	30	11E0012		04-29-2011
sec-Butylbenzene	9.83	0.50		ppbv	10.0	98%	70 - 130	2	30	11E0012		04-29-2011
Styrene	8.82	0.50		ppbv	10.0	88%	70 - 130	2	30	11E0012		04-29-2011
tert-Butylbenzene	9.68	0.50		ppbv	10.0	97%	70 - 130	0.8	30	11E0012		04-29-2011
Tetrachloroethene	7.06	0.50		ppbv	10.0	71%	70 - 130	0.4	30	11E0012		04-29-2011
Tetrahydrofuran	10.8	2.00		ppbv	10.0	108%	70 - 130	11	30	11E0012		04-29-2011
Toluene	7.93	0.50		ppbv	10.0	79%	70 - 130	5	30	11E0012		04-29-2011
trans-1,2-Dichloroethene	8.65	0.50		ppbv	10.0	86%	70 - 130	19	30	11E0012		04-29-2011

ARCADIS U.S., Inc. - Phoenix
 4646 E Van Buren, Ste. 400
 Phoenix, AZ 85008
 Gregory Guimond

Work Order: PUD1452
 Project: UPCO-3994011/TO15
 Project Number: UPCO

Received: 04/25/11
 Reported: 05/03/11 13:49

LCS Dup - Cont.

Analyte	Result	RL	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Volatile Organic Compounds by EPA TO-15												
11E0012-BSD1												
trans-1,3-Dichloropropene	8.18	0.50		ppbv	10.0	82%	70 - 130	6	30	11E0012		04-29-2011
Trichloroethene	7.75	0.50		ppbv	10.0	78%	70 - 130	11	30	11E0012		04-29-2011
Trichlorofluoromethane	8.13	0.50		ppbv	10.0	81%	70 - 130	20	30	11E0012		04-29-2011
Vinyl Acetate	9.83	0.50	N1	ppbv	10.0	98%	70 - 130	12	30	11E0012		04-29-2011
Vinyl chloride	9.57	0.50		ppbv	10.0	96%	70 - 130	14	30	11E0012		04-29-2011
Surrogate: 4-Bromofluorobenzene	10.5	0.50		ppbv	10.0	105%	70 - 130			11E0012		04-29-2011

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Received: 04/25/11
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CERTIFICATION SUMMARY

Analyses included in this report were performed by TestAmerica Phoenix, 4625 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ 85040.

TestAmerica Phoenix (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1010, NIOSH 1015, NIOSH 1022, NIOSH 1300, NIOSH 1400, NIOSH 1401, NIOSH 1403, NIOSH 1405, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1550, NIOSH 1602, NIOSH 1604, NIOSH 1606, NIOSH 1609, NIOSH 1610, NIOSH 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2016, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7303, NIOSH 7600, NIOSH 7903, NIOSH 9100, NIOSH 9102, EPA IP-6A, EPA IP-6C, OSHA PV2120, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, OSHA ID-125G, OSHA IS-215, OSHA 1001, OSHA 1002, OSHA 1003, OSHA 1004, OSHA 1005 and OSHA Chemical and Sampling Information for Silane. Volatile organic compounds on 3M Organic Vapor Monitors, Assay Technology Passive Monitors and SKC Passive Monitors. Formaldehyde and other aldehydes and ketones on Assay Technology Passive Monitor. Aldehydes and ketones by EPA TO-11A.

The TestAmerica Phoenix is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Phoenix also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

- OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Gregory Guimond

Work Order: PUD1452
Project: UPCO-3994011/TO15
Project Number: UPCO

Received: 04/25/11
Reported: 05/03/11 13:49

DATA QUALIFIERS AND DEFINITIONS

- L3** Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
- N1** See case narrative.
- V1** Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.

ADDITIONAL COMMENTS

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.
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Client Contact Information				Project Manager: <u>Greg Gwinond</u>		Page <u>1</u> of <u>1</u> COCs															
Company: <u>Malcolm Pirnie, Inc.</u>				Phone: <u>602-241-1770</u>		Samples Collected By: <u>Bryan Brochman</u>															
Address: <u>4646 E VanDusen St Ste 400</u>				Email: <u>ggwinond@pirnie.com</u>																	
City/State/Zip: <u>Phoenix AZ 85008</u>				Site Contact:																	
Phone: <u>602-241-1770</u>				LAB Contact: <u>Carlene McCutcheon</u>																	
FAX: <u>602-281-0131</u>				Analysis Turnaround Time																	
Project Name: <u>UPCO</u>				Standard (Specify) <u>✓</u>																	
Site: <u>Happy Valley Rd/Concord Ave</u>				Rush (Specify) _____																	
PO # <u>344018</u>																					
Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Model (Liters)	Flow Controller ID	Canister ID	TO-15 (Full or IAQ)	TO-14A	TO-3	EPA 25C	ASTM D-1946 (Fixed Gases)	Other (Please specify in notes section)	Sample Type	Indoor Air (IAQ)	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)			
<u>SVMW-1-30-40</u>	<u>4/25/11</u>	<u>1029</u>	<u>1037</u>	<u>0.4, (1.0) 6.0</u>		<u>0941</u>	<u>X</u>				<u>PROD1452-01</u>					<u>X</u>					
<u>SVMW-1-90-100</u>	<u>4/25/11</u>	<u>1059</u>	<u>1108</u>	<u>0.4, (1.0) 6.0</u>		<u>0608</u>	<u>X</u>					<u>-02</u>				<u>X</u>					
<u>SVMW-1-140-150</u>	<u>4/25/11</u>	<u>1134</u>	<u>1143</u>	<u>0.4, (1.0) 6.0</u>		<u>1299</u>	<u>X</u>					<u>-03</u>				<u>X</u>					
<u>SVMW-1-190-200</u>	<u>4/25/11</u>	<u>1167</u>	<u>1209</u>	<u>0.4, (1.0) 6.0</u>		<u>0644</u>	<u>X</u>					<u>-04</u>				<u>X</u>					
<u>BB</u>				<u>0.4, 1.0, 6.0</u>																	
				<u>0.4, 1.0, 6.0</u>																	
				<u>0.4, 1.0, 6.0</u>																	
				<u>0.4, 1.0, 6.0</u>																	
				<u>0.4, 1.0, 6.0</u>																	
Special Instructions/QC Requirements & Comments: <u>Initial pressure for all 5 canisters = -4 inHg</u>																					
Samples Shipped by:				Date/Time:				Samples Received by:													
Samples Relinquished by:				Date/Time:				Received by:													
Relinquished by:				Date/Time:				Received by:													

20.0 °C / AmS

August 04, 2011

LABORATORY REPORT

Client:

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attn: Gregory Guimond

Work Order: PUG1642
Project Name: UPCO-3994011/TO15
Project Number: UPCO
Date Received: 07/26/11
Final Report: 08/04/11 13:49

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

The Chain of Custody, 1 page, is included and is an integral part of this report. This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE:

SAMPLE RECEIPT: Samples were received intact, at 20°C and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

N1-The daily second source continuing calibration verification standard recovered high and outside of acceptance limits for Bromoform, 1,1,2,2-Tetrachloroethane, 4-Ethyltoluene and Benzyl Chloride. All associated samples are non-detect for these analytes and therefore should not be impacted.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Approved By:



Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Gregory Guimond

Work Order: PUG1642
Project: UPCO-3994011/TO15
Project Number: UPCO

Received: 07/26/11
Reported: 08/04/11 13:49

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

SVMW-1-30-40
SVMW-1-90-100
SVMW-1-140-150
SVMW-1-190-200

PUG1642-01
PUG1642-02
PUG1642-03
PUG1642-04

07/26/11
07/26/11
07/26/11
07/26/11

S/N 1317 1L Canister
S/N 1816 1L Canister
S/N 1675 1L Canister
S/N 1254 1L Canister

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Gregory Guimond

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Received: 07/26/11
Reported: 08/04/11 13:49

ANALYTICAL REPORT

	<u>ppbv</u>		<u>ug/m3</u>		Data Qualifiers	Dilution	Date Analyzed	Analyst	Method
	Result	RL	Result	RL					
Volatile Organic Compounds by EPA TO-15									
Sample ID: PUG1642-01 (SVMW-1-30-40)									
Sampling Time: min									
Sampled: 07/26/11 08:00									
1,1,1-Trichloroethane	<0.50	0.50	<2.7	2.7		1.0	8/3/2011	LC	EPA TO15
1,1,2,2-Tetrachloroethane	<0.50	0.50	<3.4	3.4	N1	1.0	8/3/2011	LC	EPA TO15
1,1,2-Trichloroethane	<0.50	0.50	<2.7	2.7		1.0	8/3/2011	LC	EPA TO15
1,1-Dichloroethane	21	0.50	85	2.0		1.0	8/3/2011	LC	EPA TO15
1,2,4-Trichlorobenzene	<2.0	2.0	<15	15		1.0	8/3/2011	LC	EPA TO15
1,2,4-Trimethylbenzene	0.55	0.50	2.7	2.5		1.0	8/3/2011	LC	EPA TO15
1,2-Dibromoethane (EDB)	<1.0	1.0	<7.7	7.7		1.0	8/3/2011	LC	EPA TO15
1,2-Dichlorobenzene	<0.50	0.50	<3.0	3.0		1.0	8/3/2011	LC	EPA TO15
1,2-Dichloroethane	<0.50	0.50	<2.0	2.0		1.0	8/3/2011	LC	EPA TO15
1,2-Dichloropropane	<0.50	0.50	<2.3	2.3		1.0	8/3/2011	LC	EPA TO15
1,3,5-Trimethylbenzene	<0.50	0.50	<2.5	2.5		1.0	8/3/2011	LC	EPA TO15
1,3-Butadiene	<0.50	0.50	<1.1	1.1		1.0	8/3/2011	LC	EPA TO15
1,3-Dichlorobenzene	<0.50	0.50	<3.0	3.0		1.0	8/3/2011	LC	EPA TO15
1,4-Dichlorobenzene	<0.50	0.50	<3.0	3.0		1.0	8/3/2011	LC	EPA TO15
2,2,4-Trimethylpentane	<0.50	0.50	<2.3	2.3		1.0	8/3/2011	LC	EPA TO15
2-Butanone (MEK)	21	1.0	62	2.9		1.0	8/3/2011	LC	EPA TO15
2-Propanol	<2.0	2.0	<4.9	4.9		1.0	8/3/2011	LC	EPA TO15
4-Ethyltoluene	<0.50	0.50	<2.5	2.5	N1	1.0	8/3/2011	LC	EPA TO15
4-Methyl-2-pentanone (MIBK)	<1.0	1.0	<4.1	4.1	V1,L3	1.0	8/3/2011	LC	EPA TO15
Allyl Chloride	<0.50	0.50	<1.6	1.6		1.0	8/3/2011	LC	EPA TO15
Benzene	1.3	0.50	4.2	1.6		1.0	8/3/2011	LC	EPA TO15
Benzyl Chloride	<2.0	2.0	<10	10	V1,L3,N1	1.0	8/3/2011	LC	EPA TO15
Bromodichloromethane	<0.50	0.50	<3.4	3.4		1.0	8/3/2011	LC	EPA TO15
Bromoethene(Vinyl Bromide)	<0.50	0.50	<2.2	2.2		1.0	8/3/2011	LC	EPA TO15
Bromoform	<0.50	0.50	<5.2	5.2	N1	1.0	8/3/2011	LC	EPA TO15
Bromomethane	0.88	0.50	3.4	1.9		1.0	8/3/2011	LC	EPA TO15
Carbon disulfide	1.1	0.50	3.4	1.6		1.0	8/3/2011	LC	EPA TO15
Carbon tetrachloride	<0.50	0.50	<3.1	3.1		1.0	8/3/2011	LC	EPA TO15
Chlorobenzene	<0.50	0.50	<2.3	2.3		1.0	8/3/2011	LC	EPA TO15
Chloroethane	<0.50	0.50	<1.3	1.3		1.0	8/3/2011	LC	EPA TO15
Chloroform	5.3	0.50	26	2.4		1.0	8/3/2011	LC	EPA TO15
Chloromethane	5.6	0.50	12	1.0		1.0	8/3/2011	LC	EPA TO15
cis-1,2-Dichloroethene	<0.50	0.50	<2.0	2.0		1.0	8/3/2011	LC	EPA TO15
cis-1,3-Dichloropropene	<0.50	0.50	<2.3	2.3		1.0	8/3/2011	LC	EPA TO15
Cyclohexane	0.56	0.50	1.9	1.7		1.0	8/3/2011	LC	EPA TO15
Dibromochloromethane	<0.50	0.50	<4.3	4.3		1.0	8/3/2011	LC	EPA TO15
Dichlorodifluoromethane	3.9	0.50	19	2.5		1.0	8/3/2011	LC	EPA TO15
Dichlorotetrafluoroethane(F-114)	<0.50	0.50	<3.5	3.5		1.0	8/3/2011	LC	EPA TO15
Ethyl Acetate	2.5	0.50	9.0	1.8		1.0	8/3/2011	LC	EPA TO15
Ethylbenzene	<0.50	0.50	<2.2	2.2		1.0	8/3/2011	LC	EPA TO15
Freon 113	4.1	0.50	31	3.8		1.0	8/3/2011	LC	EPA TO15
Heptane	<0.50	0.50	<2.0	2.0		1.0	8/3/2011	LC	EPA TO15
Hexachlorobutadiene	<1.0	1.0	<11	11		1.0	8/3/2011	LC	EPA TO15

ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Gregory Guimond

Work Order: PUG1642
 Project: UPCO-3994011/TO15
 Project Number: UPCO

Received: 07/26/11
 Reported: 08/04/11 13:49

	<u>ppbv</u>		<u>ug/m3</u>		Data Qualifiers	Dilution	Date Analyzed	Analyst	Method
	Result	RL	Result	RL					
Volatile Organic Compounds by EPA TO-15									
Sample ID: PUG1642-01 (SVMW-1-30-40) - cont.					Sampling Time: min		Sampled: 07/26/11 08:00		
Hexane	<0.50	0.50	<1.8	1.8		1.0	8/3/2011	LC	EPA TO15
Isopropylbenzene	<0.50	0.50	<2.5	2.5		1.0	8/3/2011	LC	EPA TO15
m,p-Xylenes	<1.0	1.0	<4.3	4.3		1.0	8/3/2011	LC	EPA TO15
Methylene Chloride	3.2	0.50	11	1.7		1.0	8/3/2011	LC	EPA TO15
Methyl-tert-butyl Ether (MTBE)	<1.0	1.0	<3.6	3.6		1.0	8/3/2011	LC	EPA TO15
Naphthalene	<5.0	5.0	<26	26		1.0	8/3/2011	LC	EPA TO15
n-Butylbenzene	<0.50	0.50	<2.7	2.7		1.0	8/3/2011	LC	EPA TO15
n-Nonane (C9)	<0.50	0.50	<2.6	2.6		1.0	8/3/2011	LC	EPA TO15
n-Octane (C8)	<0.50	0.50	<2.3	2.3		1.0	8/3/2011	LC	EPA TO15
n-Propylbenzene	<0.50	0.50	<2.5	2.5		1.0	8/3/2011	LC	EPA TO15
o-Xylene	<0.50	0.50	<2.2	2.2		1.0	8/3/2011	LC	EPA TO15
Propene	<0.50	0.50	<0.86	0.86		1.0	8/3/2011	LC	EPA TO15
sec-Butylbenzene	<0.50	0.50	<2.7	2.7		1.0	8/3/2011	LC	EPA TO15
Styrene	<0.50	0.50	<2.1	2.1		1.0	8/3/2011	LC	EPA TO15
tert-Butylbenzene	<0.50	0.50	<2.7	2.7		1.0	8/3/2011	LC	EPA TO15
Tetrahydrofuran	<2.0	2.0	<5.9	5.9		1.0	8/3/2011	LC	EPA TO15
Toluene	0.85	0.50	3.2	1.9		1.0	8/3/2011	LC	EPA TO15
trans-1,2-Dichloroethene	<0.50	0.50	<2.0	2.0		1.0	8/3/2011	LC	EPA TO15
trans-1,3-Dichloropropene	<0.50	0.50	<2.3	2.3		1.0	8/3/2011	LC	EPA TO15
Trichloroethene	28	0.50	150	2.7		1.0	8/3/2011	LC	EPA TO15
Trichlorofluoromethane	<0.50	0.50	<2.8	2.8		1.0	8/3/2011	LC	EPA TO15
Vinyl Acetate	<0.50	0.50	<1.8	1.8		1.0	8/3/2011	LC	EPA TO15
Vinyl chloride	<0.50	0.50	<1.3	1.3		1.0	8/3/2011	LC	EPA TO15
Surrogate: 4-Bromofluorobenzene	95 %		Limit 70-130						

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	<u>ppbv</u>		<u>ug/m3</u>		Data Qualifiers	Dilution	Date Analyzed	Analyst	Method
	Result	RL	Result	RL					
Volatile Organic Compounds by EPA TO-15									
Sample ID: PUG1642-01RE1 (SVMW-1-30-40)					Sampling Time: min			Sampled: 07/26/11 08:00	
2-Hexanone	<19	19	<78	78	V1,L3	19	8/3/2011	LC	EPA TO15
Acetone	<97	97	<230	230		19	8/3/2011	LC	EPA TO15
Tetrachloroethene	69	9.7	470	66		19	8/3/2011	LC	EPA TO15
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>99 %</i>		<i>Limit 70-130</i>						

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	<u>ppbv</u>		<u>ug/m3</u>		Data Qualifiers	Dilution	Date Analyzed	Analyst	Method
	Result	RL	Result	RL					
Volatile Organic Compounds by EPA TO-15									
Sample ID: PUG1642-01RE2 (SVMW-1-30-40)					Sampling Time: min		Sampled: 07/26/11 08:00		
1,1-Dichloroethene	2600	50	10000	200		100	8/3/2011	LC	EPA TO15
Surrogate: 4-Bromofluorobenzene	99 %		Limit 70-130						

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	<u>ppbv</u>		<u>ug/m3</u>		<u>Data</u>		<u>Date</u>	<u>Analyst</u>	<u>Method</u>	
	<u>Result</u>	<u>RL</u>	<u>Result</u>	<u>RL</u>	<u>Qualifiers</u>	<u>Dilution</u>	<u>Analyzed</u>			
Volatile Organic Compounds by EPA TO-15										
Sample ID: PUG1642-02 (SVMW-1-90-100)			Sampling Time: min				Sampled: 07/26/11 08:00			
1,1,1-Trichloroethane	<0.50	0.50	<2.7	2.7		1.0	8/3/2011	LC	EPA TO15	
1,1,2,2-Tetrachloroethane	<0.50	0.50	<3.4	3.4	N1	1.0	8/3/2011	LC	EPA TO15	
1,1,2-Trichloroethane	<0.50	0.50	<2.7	2.7		1.0	8/3/2011	LC	EPA TO15	
1,1-Dichloroethane	19	0.50	77	2.0		1.0	8/3/2011	LC	EPA TO15	
1,2,4-Trichlorobenzene	<2.0	2.0	<15	15		1.0	8/3/2011	LC	EPA TO15	
1,2,4-Trimethylbenzene	<0.50	0.50	<2.5	2.5		1.0	8/3/2011	LC	EPA TO15	
1,2-Dibromoethane (EDB)	<1.0	1.0	<7.7	7.7		1.0	8/3/2011	LC	EPA TO15	
1,2-Dichlorobenzene	<0.50	0.50	<3.0	3.0		1.0	8/3/2011	LC	EPA TO15	
1,2-Dichloroethane	<0.50	0.50	<2.0	2.0		1.0	8/3/2011	LC	EPA TO15	
1,2-Dichloropropane	<0.50	0.50	<2.3	2.3		1.0	8/3/2011	LC	EPA TO15	
1,3,5-Trimethylbenzene	<0.50	0.50	<2.5	2.5		1.0	8/3/2011	LC	EPA TO15	
1,3-Butadiene	<0.50	0.50	<1.1	1.1		1.0	8/3/2011	LC	EPA TO15	
1,3-Dichlorobenzene	<0.50	0.50	<3.0	3.0		1.0	8/3/2011	LC	EPA TO15	
1,4-Dichlorobenzene	<0.50	0.50	<3.0	3.0		1.0	8/3/2011	LC	EPA TO15	
2,2,4-Trimethylpentane	<0.50	0.50	<2.3	2.3		1.0	8/3/2011	LC	EPA TO15	
2-Propanol	<2.0	2.0	<4.9	4.9		1.0	8/3/2011	LC	EPA TO15	
4-Ethyltoluene	<0.50	0.50	<2.5	2.5	N1	1.0	8/3/2011	LC	EPA TO15	
4-Methyl-2-pentanone (MIBK)	<1.0	1.0	<4.1	4.1	V1,L3	1.0	8/3/2011	LC	EPA TO15	
Allyl Chloride	<0.50	0.50	<1.6	1.6		1.0	8/3/2011	LC	EPA TO15	
Benzene	1.9	0.50	6.1	1.6		1.0	8/3/2011	LC	EPA TO15	
Benzyl Chloride	<2.0	2.0	<10	10	V1,L3,N1	1.0	8/3/2011	LC	EPA TO15	
Bromodichloromethane	<0.50	0.50	<3.4	3.4		1.0	8/3/2011	LC	EPA TO15	
Bromoethene(Vinyl Bromide)	<0.50	0.50	<2.2	2.2		1.0	8/3/2011	LC	EPA TO15	
Bromoform	<0.50	0.50	<5.2	5.2	N1	1.0	8/3/2011	LC	EPA TO15	
Bromomethane	1.3	0.50	5.1	1.9		1.0	8/3/2011	LC	EPA TO15	
Carbon disulfide	0.88	0.50	2.7	1.6		1.0	8/3/2011	LC	EPA TO15	
Carbon tetrachloride	0.51	0.50	3.2	3.1		1.0	8/3/2011	LC	EPA TO15	
Chlorobenzene	<0.50	0.50	<2.3	2.3		1.0	8/3/2011	LC	EPA TO15	
Chloroethane	<0.50	0.50	<1.3	1.3		1.0	8/3/2011	LC	EPA TO15	
Chloroform	1.8	0.50	8.8	2.4		1.0	8/3/2011	LC	EPA TO15	
Chloromethane	0.68	0.50	1.4	1.0		1.0	8/3/2011	LC	EPA TO15	
cis-1,2-Dichloroethene	<0.50	0.50	<2.0	2.0		1.0	8/3/2011	LC	EPA TO15	
cis-1,3-Dichloropropene	<0.50	0.50	<2.3	2.3		1.0	8/3/2011	LC	EPA TO15	
Cyclohexane	<0.50	0.50	<1.7	1.7		1.0	8/3/2011	LC	EPA TO15	
Dibromochloromethane	<0.50	0.50	<4.3	4.3		1.0	8/3/2011	LC	EPA TO15	
Dichlorodifluoromethane	4.3	0.50	21	2.5		1.0	8/3/2011	LC	EPA TO15	
Dichlorotetrafluoroethane(F-114)	<0.50	0.50	<3.5	3.5		1.0	8/3/2011	LC	EPA TO15	
Ethyl Acetate	0.56	0.50	2.0	1.8		1.0	8/3/2011	LC	EPA TO15	
Ethylbenzene	<0.50	0.50	<2.2	2.2		1.0	8/3/2011	LC	EPA TO15	
Freon 113	4.2	0.50	32	3.8		1.0	8/3/2011	LC	EPA TO15	
Heptane	<0.50	0.50	<2.0	2.0		1.0	8/3/2011	LC	EPA TO15	
Hexachlorobutadiene	<1.0	1.0	<11	11		1.0	8/3/2011	LC	EPA TO15	
Hexane	1.5	0.50	5.3	1.8		1.0	8/3/2011	LC	EPA TO15	
Isopropylbenzene	<0.50	0.50	<2.5	2.5		1.0	8/3/2011	LC	EPA TO15	
m,p-Xylenes	<1.0	1.0	<4.3	4.3		1.0	8/3/2011	LC	EPA TO15	

ARCADIS U.S., Inc. - Phoenix
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 Project: UPCO-3994011/TO15
 Project Number: UPCO

Received: 07/26/11
 Reported: 08/04/11 13:49

	<u>ppbv</u>		<u>ug/m3</u>		Data Qualifiers	Dilution	Date Analyzed	Analyst	Method
	Result	RL	Result	RL					
Volatile Organic Compounds by EPA TO-15									
Sample ID: PUG1642-02 (SVMW-1-90-100) - cont.			Sampling Time: min			Sampled: 07/26/11 08:00			
Methylene Chloride	2.2	0.50	7.6	1.7	1.0		8/3/2011	LC	EPA TO15
Methyl-tert-butyl Ether (MTBE)	<1.0	1.0	<3.6	3.6	1.0		8/3/2011	LC	EPA TO15
Naphthalene	<5.0	5.0	<26	26	1.0		8/3/2011	LC	EPA TO15
n-Butylbenzene	<0.50	0.50	<2.7	2.7	1.0		8/3/2011	LC	EPA TO15
n-Nonane (C9)	<0.50	0.50	<2.6	2.6	1.0		8/3/2011	LC	EPA TO15
n-Octane (C8)	<0.50	0.50	<2.3	2.3	1.0		8/3/2011	LC	EPA TO15
n-Propylbenzene	<0.50	0.50	<2.5	2.5	1.0		8/3/2011	LC	EPA TO15
o-Xylene	<0.50	0.50	<2.2	2.2	1.0		8/3/2011	LC	EPA TO15
Propene	<0.50	0.50	<0.86	0.86	1.0		8/3/2011	LC	EPA TO15
sec-Butylbenzene	<0.50	0.50	<2.7	2.7	1.0		8/3/2011	LC	EPA TO15
Styrene	<0.50	0.50	<2.1	2.1	1.0		8/3/2011	LC	EPA TO15
tert-Butylbenzene	<0.50	0.50	<2.7	2.7	1.0		8/3/2011	LC	EPA TO15
Tetrahydrofuran	<2.0	2.0	<5.9	5.9	1.0		8/3/2011	LC	EPA TO15
Toluene	1.8	0.50	6.8	1.9	1.0		8/3/2011	LC	EPA TO15
trans-1,2-Dichloroethene	<0.50	0.50	<2.0	2.0	1.0		8/3/2011	LC	EPA TO15
trans-1,3-Dichloropropene	<0.50	0.50	<2.3	2.3	1.0		8/3/2011	LC	EPA TO15
Trichloroethene	29	0.50	160	2.7	1.0		8/3/2011	LC	EPA TO15
Trichlorofluoromethane	<0.50	0.50	<2.8	2.8	1.0		8/3/2011	LC	EPA TO15
Vinyl Acetate	<0.50	0.50	<1.8	1.8	1.0		8/3/2011	LC	EPA TO15
Vinyl chloride	<0.50	0.50	<1.3	1.3	1.0		8/3/2011	LC	EPA TO15
Surrogate: 4-Bromofluorobenzene	93 %		Limit 70-130						

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	<u>ppbv</u>		<u>ug/m3</u>		Data Qualifiers	Dilution	Date Analyzed	Analyst	Method
	Result	RL	Result	RL					
Volatile Organic Compounds by EPA TO-15									
Sample ID: PUG1642-02RE1 (SVMW-1-90-100)			Sampling Time: min			Sampled: 07/26/11 08:00			
2-Butanone (MEK)	48	20	140	59		20	8/3/2011	LC	EPA TO15
2-Hexanone	<20	20	<82	82	V1,L3	20	8/3/2011	LC	EPA TO15
Acetone	110	100	260	240		20	8/3/2011	LC	EPA TO15
Tetrachloroethene	58	10	390	68		20	8/3/2011	LC	EPA TO15
Surrogate: 4-Bromofluorobenzene	100 %		Limit 70-130						

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	<u>ppbv</u>		<u>ug/m3</u>		Data Qualifiers	Dilution	Date Analyzed	Analyst	Method
	Result	RL	Result	RL					
Volatile Organic Compounds by EPA TO-15									
Sample ID: PUG1642-02RE3 (SVMW-1-90-100)					Sampling Time: min		Sampled: 07/26/11 08:00		
1,1-Dichloroethene	6900	100	27000	400		200	8/4/2011	LC	EPA TO15
Surrogate: 4-Bromofluorobenzene	102 %		Limit 70-130						

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	<u>ppbv</u>		<u>ug/m3</u>		<u>Data</u>		<u>Date</u>	<u>Analyst</u>	<u>Method</u>
	<u>Result</u>	<u>RL</u>	<u>Result</u>	<u>RL</u>	<u>Qualifiers</u>	<u>Dilution</u>	<u>Analyzed</u>		
Volatile Organic Compounds by EPA TO-15									
Sample ID: PUG1642-03 (SVMW-1-140-150)			Sampling Time: min				Sampled: 07/26/11 08:00		
1,1,1-Trichloroethane	<0.50	0.50	<2.7	2.7		1.0	8/3/2011	LC	EPA TO15
1,1,2,2-Tetrachloroethane	<0.50	0.50	<3.4	3.4	N1	1.0	8/3/2011	LC	EPA TO15
1,1,2-Trichloroethane	<0.50	0.50	<2.7	2.7		1.0	8/3/2011	LC	EPA TO15
1,1-Dichloroethane	<0.50	0.50	<2.0	2.0		1.0	8/3/2011	LC	EPA TO15
1,2,4-Trichlorobenzene	<2.0	2.0	<15	15		1.0	8/3/2011	LC	EPA TO15
1,2,4-Trimethylbenzene	<0.50	0.50	<2.5	2.5		1.0	8/3/2011	LC	EPA TO15
1,2-Dibromoethane (EDB)	<1.0	1.0	<7.7	7.7		1.0	8/3/2011	LC	EPA TO15
1,2-Dichlorobenzene	<0.50	0.50	<3.0	3.0		1.0	8/3/2011	LC	EPA TO15
1,2-Dichloroethane	<0.50	0.50	<2.0	2.0		1.0	8/3/2011	LC	EPA TO15
1,2-Dichloropropane	<0.50	0.50	<2.3	2.3		1.0	8/3/2011	LC	EPA TO15
1,3,5-Trimethylbenzene	<0.50	0.50	<2.5	2.5		1.0	8/3/2011	LC	EPA TO15
1,3-Butadiene	<0.50	0.50	<1.1	1.1		1.0	8/3/2011	LC	EPA TO15
1,3-Dichlorobenzene	<0.50	0.50	<3.0	3.0		1.0	8/3/2011	LC	EPA TO15
1,4-Dichlorobenzene	<0.50	0.50	<3.0	3.0		1.0	8/3/2011	LC	EPA TO15
2,2,4-Trimethylpentane	<0.50	0.50	<2.3	2.3		1.0	8/3/2011	LC	EPA TO15
2-Propanol	<2.0	2.0	<4.9	4.9		1.0	8/3/2011	LC	EPA TO15
4-Ethyltoluene	<0.50	0.50	<2.5	2.5	N1	1.0	8/3/2011	LC	EPA TO15
4-Methyl-2-pentanone (MIBK)	<1.0	1.0	<4.1	4.1	V1,L3	1.0	8/3/2011	LC	EPA TO15
Allyl Chloride	<0.50	0.50	<1.6	1.6		1.0	8/3/2011	LC	EPA TO15
Benzene	1.5	0.50	4.8	1.6		1.0	8/3/2011	LC	EPA TO15
Benzyl Chloride	<2.0	2.0	<10	10	V1,L3,N1	1.0	8/3/2011	LC	EPA TO15
Bromodichloromethane	<0.50	0.50	<3.4	3.4		1.0	8/3/2011	LC	EPA TO15
Bromoethene(Vinyl Bromide)	<0.50	0.50	<2.2	2.2		1.0	8/3/2011	LC	EPA TO15
Bromoform	<0.50	0.50	<5.2	5.2	N1	1.0	8/3/2011	LC	EPA TO15
Bromomethane	<0.50	0.50	<1.9	1.9		1.0	8/3/2011	LC	EPA TO15
Carbon disulfide	3.0	0.50	9.3	1.6		1.0	8/3/2011	LC	EPA TO15
Carbon tetrachloride	<0.50	0.50	<3.1	3.1		1.0	8/3/2011	LC	EPA TO15
Chlorobenzene	<0.50	0.50	<2.3	2.3		1.0	8/3/2011	LC	EPA TO15
Chloroethane	<0.50	0.50	<1.3	1.3		1.0	8/3/2011	LC	EPA TO15
Chloroform	<0.50	0.50	<2.4	2.4		1.0	8/3/2011	LC	EPA TO15
Chloromethane	1.7	0.50	3.5	1.0		1.0	8/3/2011	LC	EPA TO15
cis-1,2-Dichloroethene	<0.50	0.50	<2.0	2.0		1.0	8/3/2011	LC	EPA TO15
cis-1,3-Dichloropropene	<0.50	0.50	<2.3	2.3		1.0	8/3/2011	LC	EPA TO15
Cyclohexane	<0.50	0.50	<1.7	1.7		1.0	8/3/2011	LC	EPA TO15
Dibromochloromethane	<0.50	0.50	<4.3	4.3		1.0	8/3/2011	LC	EPA TO15
Dichlorodifluoromethane	0.71	0.50	3.5	2.5		1.0	8/3/2011	LC	EPA TO15
Dichlorotetrafluoroethane(F-114)	<0.50	0.50	<3.5	3.5		1.0	8/3/2011	LC	EPA TO15
Ethyl Acetate	1.2	0.50	4.3	1.8		1.0	8/3/2011	LC	EPA TO15
Ethylbenzene	<0.50	0.50	<2.2	2.2		1.0	8/3/2011	LC	EPA TO15
Freon 113	0.95	0.50	7.3	3.8		1.0	8/3/2011	LC	EPA TO15
Heptane	<0.50	0.50	<2.0	2.0		1.0	8/3/2011	LC	EPA TO15
Hexachlorobutadiene	<1.0	1.0	<11	11		1.0	8/3/2011	LC	EPA TO15
Hexane	1.4	0.50	4.9	1.8		1.0	8/3/2011	LC	EPA TO15
Isopropylbenzene	<0.50	0.50	<2.5	2.5		1.0	8/3/2011	LC	EPA TO15
m,p-Xylenes	<1.0	1.0	<4.3	4.3		1.0	8/3/2011	LC	EPA TO15

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 Gregory Guimond

Work Order: PUG1642
 Project: UPCO-3994011/TO15
 Project Number: UPCO

Received: 07/26/11
 Reported: 08/04/11 13:49

	<u>ppbv</u>		<u>ug/m3</u>		Data Qualifiers	Dilution	Date Analyzed	Analyst	Method
	Result	RL	Result	RL					
Volatile Organic Compounds by EPA TO-15									
Sample ID: PUG1642-03 (SVMW-1-140-150) - cont.					Sampling Time: min			Sampled: 07/26/11 08:00	
Methylene Chloride	<0.50	0.50	<1.7	1.7	1.0		8/3/2011	LC	EPA TO15
Methyl-tert-butyl Ether (MTBE)	<1.0	1.0	<3.6	3.6	1.0		8/3/2011	LC	EPA TO15
Naphthalene	<5.0	5.0	<26	26	1.0		8/3/2011	LC	EPA TO15
n-Butylbenzene	<0.50	0.50	<2.7	2.7	1.0		8/3/2011	LC	EPA TO15
n-Nonane (C9)	<0.50	0.50	<2.6	2.6	1.0		8/3/2011	LC	EPA TO15
n-Octane (C8)	<0.50	0.50	<2.3	2.3	1.0		8/3/2011	LC	EPA TO15
n-Propylbenzene	<0.50	0.50	<2.5	2.5	1.0		8/3/2011	LC	EPA TO15
o-Xylene	<0.50	0.50	<2.2	2.2	1.0		8/3/2011	LC	EPA TO15
Propene	<0.50	0.50	<0.86	0.86	1.0		8/3/2011	LC	EPA TO15
sec-Butylbenzene	<0.50	0.50	<2.7	2.7	1.0		8/3/2011	LC	EPA TO15
Styrene	<0.50	0.50	<2.1	2.1	1.0		8/3/2011	LC	EPA TO15
tert-Butylbenzene	<0.50	0.50	<2.7	2.7	1.0		8/3/2011	LC	EPA TO15
Tetrachloroethene	5.1	0.50	35	3.4	1.0		8/3/2011	LC	EPA TO15
Tetrahydrofuran	<2.0	2.0	<5.9	5.9	1.0		8/3/2011	LC	EPA TO15
Toluene	0.62	0.50	2.3	1.9	1.0		8/3/2011	LC	EPA TO15
trans-1,2-Dichloroethene	<0.50	0.50	<2.0	2.0	1.0		8/3/2011	LC	EPA TO15
trans-1,3-Dichloropropene	<0.50	0.50	<2.3	2.3	1.0		8/3/2011	LC	EPA TO15
Trichloroethene	1.0	0.50	5.4	2.7	1.0		8/3/2011	LC	EPA TO15
Trichlorofluoromethane	<0.50	0.50	<2.8	2.8	1.0		8/3/2011	LC	EPA TO15
Vinyl Acetate	<0.50	0.50	<1.8	1.8	1.0		8/3/2011	LC	EPA TO15
Vinyl chloride	<0.50	0.50	<1.3	1.3	1.0		8/3/2011	LC	EPA TO15
Surrogate: 4-Bromofluorobenzene	93 %		Limit 70-130						

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	<u>ppbv</u>		<u>ug/m3</u>		Data Qualifiers	Dilution	Date Analyzed	Analyst	Method
	Result	RL	Result	RL					
Volatile Organic Compounds by EPA TO-15									
Sample ID: PUG1642-03RE1 (SVMW-1-140-150)			Sampling Time: min			Sampled: 07/26/11 08:00			
1,1-Dichloroethene	850	98	3400	39		20	8/3/2011	LC	EPA TO15
2-Butanone (MEK)	56	20	170	59		20	8/3/2011	LC	EPA TO15
2-Hexanone	<20	20	<82	82	V1,L3	20	8/3/2011	LC	EPA TO15
2-Propanol	<39	39	<96	96		20	8/3/2011	LC	EPA TO15
Acetone	120	98	290	230		20	8/3/2011	LC	EPA TO15
Surrogate: 4-Bromofluorobenzene	100 %		Limit 70-130						

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	<u>ppbv</u>		<u>ug/m3</u>		<u>Data</u>		<u>Date</u>	<u>Analyst</u>	<u>Method</u>	
	<u>Result</u>	<u>RL</u>	<u>Result</u>	<u>RL</u>	<u>Qualifiers</u>	<u>Dilution</u>	<u>Analyzed</u>			
Volatile Organic Compounds by EPA TO-15										
Sample ID: PUG1642-04 (SVMW-1-190-200)			Sampling Time: min				Sampled: 07/26/11 08:00			
1,1,1-Trichloroethane	<0.50	0.50	<2.7	2.7		1.0	8/3/2011	LC	EPA TO15	
1,1,2,2-Tetrachloroethane	<0.50	0.50	<3.4	3.4	N1	1.0	8/3/2011	LC	EPA TO15	
1,1,2-Trichloroethane	<0.50	0.50	<2.7	2.7		1.0	8/3/2011	LC	EPA TO15	
1,1-Dichloroethane	<0.50	0.50	<2.0	2.0		1.0	8/3/2011	LC	EPA TO15	
1,2,4-Trichlorobenzene	<2.0	2.0	<15	15		1.0	8/3/2011	LC	EPA TO15	
1,2,4-Trimethylbenzene	<0.50	0.50	<2.5	2.5		1.0	8/3/2011	LC	EPA TO15	
1,2-Dibromoethane (EDB)	<1.0	1.0	<7.7	7.7		1.0	8/3/2011	LC	EPA TO15	
1,2-Dichlorobenzene	<0.50	0.50	<3.0	3.0		1.0	8/3/2011	LC	EPA TO15	
1,2-Dichloroethane	<0.50	0.50	<2.0	2.0		1.0	8/3/2011	LC	EPA TO15	
1,2-Dichloropropane	<0.50	0.50	<2.3	2.3		1.0	8/3/2011	LC	EPA TO15	
1,3,5-Trimethylbenzene	<0.50	0.50	<2.5	2.5		1.0	8/3/2011	LC	EPA TO15	
1,3-Butadiene	<0.50	0.50	<1.1	1.1		1.0	8/3/2011	LC	EPA TO15	
1,3-Dichlorobenzene	<0.50	0.50	<3.0	3.0		1.0	8/3/2011	LC	EPA TO15	
1,4-Dichlorobenzene	<0.50	0.50	<3.0	3.0		1.0	8/3/2011	LC	EPA TO15	
2,2,4-Trimethylpentane	<0.50	0.50	<2.3	2.3		1.0	8/3/2011	LC	EPA TO15	
2-Propanol	<2.0	2.0	<4.9	4.9		1.0	8/3/2011	LC	EPA TO15	
4-Ethyltoluene	<0.50	0.50	<2.5	2.5	N1	1.0	8/3/2011	LC	EPA TO15	
4-Methyl-2-pentanone (MIBK)	<1.0	1.0	<4.1	4.1	V1,L3	1.0	8/3/2011	LC	EPA TO15	
Allyl Chloride	<0.50	0.50	<1.6	1.6		1.0	8/3/2011	LC	EPA TO15	
Benzene	0.97	0.50	3.1	1.6		1.0	8/3/2011	LC	EPA TO15	
Benzyl Chloride	<2.0	2.0	<10	10	V1,L3,N1	1.0	8/3/2011	LC	EPA TO15	
Bromodichloromethane	<0.50	0.50	<3.4	3.4		1.0	8/3/2011	LC	EPA TO15	
Bromoethene(Vinyl Bromide)	<0.50	0.50	<2.2	2.2		1.0	8/3/2011	LC	EPA TO15	
Bromoform	<0.50	0.50	<5.2	5.2	N1	1.0	8/3/2011	LC	EPA TO15	
Bromomethane	<0.50	0.50	<1.9	1.9		1.0	8/3/2011	LC	EPA TO15	
Carbon disulfide	0.90	0.50	2.8	1.6		1.0	8/3/2011	LC	EPA TO15	
Carbon tetrachloride	<0.50	0.50	<3.1	3.1		1.0	8/3/2011	LC	EPA TO15	
Chlorobenzene	<0.50	0.50	<2.3	2.3		1.0	8/3/2011	LC	EPA TO15	
Chloroethane	<0.50	0.50	<1.3	1.3		1.0	8/3/2011	LC	EPA TO15	
Chloroform	<0.50	0.50	<2.4	2.4		1.0	8/3/2011	LC	EPA TO15	
Chloromethane	1.0	0.50	2.1	1.0		1.0	8/3/2011	LC	EPA TO15	
cis-1,2-Dichloroethene	<0.50	0.50	<2.0	2.0		1.0	8/3/2011	LC	EPA TO15	
cis-1,3-Dichloropropene	<0.50	0.50	<2.3	2.3		1.0	8/3/2011	LC	EPA TO15	
Cyclohexane	<0.50	0.50	<1.7	1.7		1.0	8/3/2011	LC	EPA TO15	
Dibromochloromethane	<0.50	0.50	<4.3	4.3		1.0	8/3/2011	LC	EPA TO15	
Dichlorodifluoromethane	0.58	0.50	2.9	2.5		1.0	8/3/2011	LC	EPA TO15	
Dichlorotetrafluoroethane(F-114)	<0.50	0.50	<3.5	3.5		1.0	8/3/2011	LC	EPA TO15	
Ethyl Acetate	0.61	0.50	2.2	1.8		1.0	8/3/2011	LC	EPA TO15	
Ethylbenzene	<0.50	0.50	<2.2	2.2		1.0	8/3/2011	LC	EPA TO15	
Freon 113	<0.50	0.50	<3.8	3.8		1.0	8/3/2011	LC	EPA TO15	
Heptane	<0.50	0.50	<2.0	2.0		1.0	8/3/2011	LC	EPA TO15	
Hexachlorobutadiene	<1.0	1.0	<11	11		1.0	8/3/2011	LC	EPA TO15	
Hexane	1.4	0.50	4.9	1.8		1.0	8/3/2011	LC	EPA TO15	
Isopropylbenzene	<0.50	0.50	<2.5	2.5		1.0	8/3/2011	LC	EPA TO15	
m,p-Xylenes	<1.0	1.0	<4.3	4.3		1.0	8/3/2011	LC	EPA TO15	

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Received: 07/26/11
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	<u>ppbv</u>		<u>ug/m3</u>		Data Qualifiers	Dilution	Date Analyzed	Analyst	Method
	Result	RL	Result	RL					
Volatile Organic Compounds by EPA TO-15									
Sample ID: PUG1642-04 (SVMW-1-190-200) - cont.			Sampling Time: min			Sampled: 07/26/11 08:00			
Methylene Chloride	<0.50	0.50	<1.7	1.7		1.0	8/3/2011	LC	EPA TO15
Methyl-tert-butyl Ether (MTBE)	<1.0	1.0	<3.6	3.6		1.0	8/3/2011	LC	EPA TO15
Naphthalene	<5.0	5.0	<26	26		1.0	8/3/2011	LC	EPA TO15
n-Butylbenzene	<0.50	0.50	<2.7	2.7		1.0	8/3/2011	LC	EPA TO15
n-Nonane (C9)	<0.50	0.50	<2.6	2.6		1.0	8/3/2011	LC	EPA TO15
n-Octane (C8)	<0.50	0.50	<2.3	2.3		1.0	8/3/2011	LC	EPA TO15
n-Propylbenzene	<0.50	0.50	<2.5	2.5		1.0	8/3/2011	LC	EPA TO15
o-Xylene	<0.50	0.50	<2.2	2.2		1.0	8/3/2011	LC	EPA TO15
Propene	<0.50	0.50	<0.86	0.86		1.0	8/3/2011	LC	EPA TO15
sec-Butylbenzene	<0.50	0.50	<2.7	2.7		1.0	8/3/2011	LC	EPA TO15
Styrene	<0.50	0.50	<2.1	2.1		1.0	8/3/2011	LC	EPA TO15
tert-Butylbenzene	<0.50	0.50	<2.7	2.7		1.0	8/3/2011	LC	EPA TO15
Tetrachloroethene	4.4	0.50	30	3.4		1.0	8/3/2011	LC	EPA TO15
Tetrahydrofuran	<2.0	2.0	<5.9	5.9		1.0	8/3/2011	LC	EPA TO15
Toluene	<0.50	0.50	<1.9	1.9		1.0	8/3/2011	LC	EPA TO15
trans-1,2-Dichloroethene	<0.50	0.50	<2.0	2.0		1.0	8/3/2011	LC	EPA TO15
trans-1,3-Dichloropropene	<0.50	0.50	<2.3	2.3		1.0	8/3/2011	LC	EPA TO15
Trichloroethene	0.68	0.50	3.7	2.7		1.0	8/3/2011	LC	EPA TO15
Trichlorofluoromethane	<0.50	0.50	<2.8	2.8		1.0	8/3/2011	LC	EPA TO15
Vinyl Acetate	<0.50	0.50	<1.8	1.8		1.0	8/3/2011	LC	EPA TO15
Vinyl chloride	<0.50	0.50	<1.3	1.3		1.0	8/3/2011	LC	EPA TO15
Surrogate: 4-Bromofluorobenzene	94 %		Limit 70-130						

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	<u>ppbv</u>		<u>ug/m3</u>		Data Qualifiers	Dilution	Date Analyzed	Analyst	Method
	Result	RL	Result	RL					
Volatile Organic Compounds by EPA TO-15									
Sample ID: PUG1642-04RE1 (SVMW-1-190-200)			Sampling Time: min			Sampled: 07/26/11 08:00			
1,1-Dichloroethene	660	9.9	2600	39		20	8/3/2011	LC	EPA TO15
2-Butanone (MEK)	67	20	200	59		20	8/3/2011	LC	EPA TO15
2-Hexanone	<20	20	<82	82	V1,L3	20	8/3/2011	LC	EPA TO15
Acetone	140	99	330	240		20	8/3/2011	LC	EPA TO15
Surrogate: 4-Bromofluorobenzene	100 %		Limit 70-130						

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PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	RL	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Volatile Organic Compounds by EPA TO-15							
11H0026-BLK1							
1,1,1-Trichloroethane	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
1,1,2,2-Tetrachloroethane	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
1,1,2-Trichloroethane	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
1,1-Dichloroethane	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
1,1-Dichloroethene	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
1,2,4-Trichlorobenzene	<2.0	2.0		ppbv	11H0026	11H0026-BLK1	08-02-2011
1,2,4-Trimethylbenzene	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
1,2-Dibromoethane (EDB)	<1.0	1.0		ppbv	11H0026	11H0026-BLK1	08-02-2011
1,2-Dichlorobenzene	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
1,2-Dichloroethane	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
1,2-Dichloropropane	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
1,3,5-Trimethylbenzene	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
1,3-Butadiene	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
1,3-Dichlorobenzene	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
1,4-Dichlorobenzene	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
2,2,4-Trimethylpentane	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
2-Butanone (MEK)	<1.0	1.0		ppbv	11H0026	11H0026-BLK1	08-02-2011
2-Hexanone	<1.0	1.0	V1	ppbv	11H0026	11H0026-BLK1	08-02-2011
2-Propanol	<2.0	2.0		ppbv	11H0026	11H0026-BLK1	08-02-2011
4-Ethyltoluene	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
4-Methyl-2-pentanone (MIBK)	<1.0	1.0	V1	ppbv	11H0026	11H0026-BLK1	08-02-2011
Acetone	<5.0	5.0		ppbv	11H0026	11H0026-BLK1	08-02-2011
Allyl Chloride	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
Benzene	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
Benzyl Chloride	<2.0	2.0	V1	ppbv	11H0026	11H0026-BLK1	08-02-2011
Bromodichloromethane	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
Bromoethene(Vinyl Bromide)	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
Bromoform	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
Bromomethane	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
Carbon disulfide	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
Carbon tetrachloride	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
Chlorobenzene	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
Chloroethane	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
Chloroform	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
Chloromethane	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
cis-1,2-Dichloroethene	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
cis-1,3-Dichloropropene	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
Cyclohexane	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
Dibromochloromethane	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011

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Gregory Guimond

Work Order: PUG1642
Project: UPCO-3994011/TO15
Project Number: UPCO

Received: 07/26/11
Reported: 08/04/11 13:49

Blank - Cont.

Analyte	Blank Value	RL	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Volatile Organic Compounds by EPA TO-15							
11H0026-BLK1							
Dichlorodifluoromethane	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
Dichlorotetrafluoroethane(F-114)	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
Ethyl Acetate	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
Ethylbenzene	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
Freon 113	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
Heptane	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
Hexachlorobutadiene	<1.0	1.0		ppbv	11H0026	11H0026-BLK1	08-02-2011
Hexane	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
Isopropylbenzene	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
m,p-Xylenes	<1.0	1.0		ppbv	11H0026	11H0026-BLK1	08-02-2011
Methylene Chloride	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
Methyl-tert-butyl Ether (MTBE)	<1.0	1.0		ppbv	11H0026	11H0026-BLK1	08-02-2011
Naphthalene	<5.0	5.0		ppbv	11H0026	11H0026-BLK1	08-02-2011
n-Butylbenzene	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
n-Nonane (C9)	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
n-Octane (C8)	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
n-Propylbenzene	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
o-Xylene	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
Propene	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
sec-Butylbenzene	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
Styrene	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
tert-Butylbenzene	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
Tetrachloroethene	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
Tetrahydrofuran	<2.0	2.0		ppbv	11H0026	11H0026-BLK1	08-02-2011
Toluene	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
trans-1,2-Dichloroethene	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
trans-1,3-Dichloropropene	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
Trichloroethene	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
Trichlorofluoromethane	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
Vinyl Acetate	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
Vinyl chloride	<0.50	0.50		ppbv	11H0026	11H0026-BLK1	08-02-2011
Surrogate: 4-Bromofluorobenzene	99%				11H0026	11H0026-BLK1	08-02-2011
11H0136-BLK1							
1,1-Dichloroethene	<0.50	0.50		ppbv	11H0136	11H0136-BLK1	08-03-2011
Surrogate: 4-Bromofluorobenzene	99%				11H0136	11H0136-BLK1	08-03-2011

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Analyte	Result	RL	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Volatile Organic Compounds by EPA TO-15								

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
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LCS

Analyte	Result	RL	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Volatile Organic Compounds by EPA TO-15								
11H0026-BS1								
1,1,1-Trichloroethane	10.1	0.50		ppbv	101%	70 - 130	11H0026	08-02-2011
1,1,2,2-Tetrachloroethane	11.7	0.50		ppbv	117%	70 - 130	11H0026	08-02-2011
1,1,2-Trichloroethane	11.7	0.50		ppbv	117%	70 - 130	11H0026	08-02-2011
1,1-Dichloroethane	10.6	0.50		ppbv	106%	70 - 130	11H0026	08-02-2011
1,1-Dichloroethene	9.51	0.50		ppbv	95%	70 - 130	11H0026	08-02-2011
1,2,4-Trichlorobenzene	12.3	2.00		ppbv	123%	70 - 130	11H0026	08-02-2011
1,2,4-Trimethylbenzene	12.7	0.50		ppbv	127%	70 - 130	11H0026	08-02-2011
1,2-Dibromoethane (EDB)	11.7	1.00		ppbv	117%	70 - 130	11H0026	08-02-2011
1,2-Dichlorobenzene	11.5	0.50		ppbv	115%	70 - 130	11H0026	08-02-2011
1,2-Dichloroethane	10.0	0.50		ppbv	100%	70 - 130	11H0026	08-02-2011
1,2-Dichloropropane	11.8	0.50		ppbv	118%	70 - 130	11H0026	08-02-2011
1,3,5-Trimethylbenzene	12.5	0.50		ppbv	125%	70 - 130	11H0026	08-02-2011
1,3-Butadiene	9.40	0.50		ppbv	94%	70 - 130	11H0026	08-02-2011
1,3-Dichlorobenzene	11.6	0.50		ppbv	116%	70 - 130	11H0026	08-02-2011
1,4-Dichlorobenzene	11.5	0.50		ppbv	115%	70 - 130	11H0026	08-02-2011
2,2,4-Trimethylpentane	11.8	0.50		ppbv	118%	70 - 130	11H0026	08-02-2011
2-Butanone (MEK)	11.3	1.00		ppbv	113%	70 - 130	11H0026	08-02-2011
2-Hexanone	13.4	1.00	V1,L3	ppbv	134%	70 - 130	11H0026	08-02-2011
2-Propanol	10.4	2.00		ppbv	104%	70 - 130	11H0026	08-02-2011
4-Ethyltoluene	12.8	0.50		ppbv	128%	70 - 130	11H0026	08-02-2011
4-Methyl-2-pentanone (MIBK)	13.1	1.00	V1,L3	ppbv	131%	70 - 130	11H0026	08-02-2011
Acetone	10.7	5.00		ppbv	107%	70 - 130	11H0026	08-02-2011
Allyl Chloride	10.8	0.50		ppbv	108%	70 - 130	11H0026	08-02-2011
Benzene	10.4	0.50		ppbv	104%	70 - 130	11H0026	08-02-2011
Benzyl Chloride	13.3	2.00	V1,L3	ppbv	133%	70 - 130	11H0026	08-02-2011
Bromodichloromethane	12.0	0.50		ppbv	120%	70 - 130	11H0026	08-02-2011
Bromoethene(Vinyl Bromide)	9.56	0.50		ppbv	96%	70 - 130	11H0026	08-02-2011
Bromoform	11.6	0.50		ppbv	116%	70 - 130	11H0026	08-02-2011
Bromomethane	9.49	0.50		ppbv	95%	70 - 130	11H0026	08-02-2011
Carbon disulfide	9.41	0.50		ppbv	94%	70 - 130	11H0026	08-02-2011
Carbon tetrachloride	10.2	0.50		ppbv	102%	70 - 130	11H0026	08-02-2011
Chlorobenzene	11.2	0.50		ppbv	112%	70 - 130	11H0026	08-02-2011
Chloroethane	9.77	0.50		ppbv	98%	70 - 130	11H0026	08-02-2011
Chloroform	10.1	0.50		ppbv	101%	70 - 130	11H0026	08-02-2011
Chloromethane	9.32	0.50		ppbv	93%	70 - 130	11H0026	08-02-2011
cis-1,2-Dichloroethene	10.3	0.50		ppbv	103%	70 - 130	11H0026	08-02-2011
cis-1,3-Dichloropropene	12.4	0.50		ppbv	124%	70 - 130	11H0026	08-02-2011
Cyclohexane	10.7	0.50		ppbv	107%	70 - 130	11H0026	08-02-2011

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LCS - Cont.

Analyte	Result	RL	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Volatile Organic Compounds by EPA TO-15								
11H0026-BS1								
Dibromochloromethane	11.8	0.50		ppbv	118%	70 - 130	11H0026	08-02-2011
Dichlorodifluoromethane	9.28	0.50		ppbv	93%	70 - 130	11H0026	08-02-2011
Dichlorotetrafluoroethane(F-114)	9.37	0.50		ppbv	94%	70 - 130	11H0026	08-02-2011
Ethyl Acetate	11.3	0.50		ppbv	113%	70 - 130	11H0026	08-02-2011
Ethylbenzene	12.4	0.50		ppbv	124%	70 - 130	11H0026	08-02-2011
Freon 113	9.75	0.50		ppbv	98%	70 - 130	11H0026	08-02-2011
Heptane	11.4	0.50		ppbv	114%	70 - 130	11H0026	08-02-2011
Hexachlorobutadiene	11.8	1.00		ppbv	118%	70 - 130	11H0026	08-02-2011
Hexane	10.6	0.50		ppbv	106%	70 - 130	11H0026	08-02-2011
Isopropylbenzene	12.8	0.50		ppbv	128%	70 - 130	11H0026	08-02-2011
m,p-Xylenes	25.1	1.00		ppbv	125%	70 - 130	11H0026	08-02-2011
Methylene Chloride	9.86	0.50		ppbv	99%	70 - 130	11H0026	08-02-2011
Methyl-tert-butyl Ether (MTBE)	10.8	1.00		ppbv	108%	70 - 130	11H0026	08-02-2011
Naphthalene	12.8	5.00		ppbv	128%	70 - 130	11H0026	08-02-2011
n-Butylbenzene	12.6	0.50		ppbv	126%	70 - 130	11H0026	08-02-2011
n-Nonane (C9)	12.6	0.50		ppbv	126%	70 - 130	11H0026	08-02-2011
n-Octane (C8)	12.7	0.50		ppbv	127%	70 - 130	11H0026	08-02-2011
n-Propylbenzene	12.5	0.50		ppbv	125%	70 - 130	11H0026	08-02-2011
o-Xylene	11.9	0.50		ppbv	119%	70 - 130	11H0026	08-02-2011
Propene	9.31	0.50		ppbv	93%	70 - 130	11H0026	08-02-2011
sec-Butylbenzene	12.5	0.50		ppbv	125%	70 - 130	11H0026	08-02-2011
Styrene	12.7	0.50		ppbv	127%	70 - 130	11H0026	08-02-2011
tert-Butylbenzene	12.5	0.50		ppbv	125%	70 - 130	11H0026	08-02-2011
Tetrachloroethene	11.2	0.50		ppbv	112%	70 - 130	11H0026	08-02-2011
Tetrahydrofuran	11.4	2.00		ppbv	114%	70 - 130	11H0026	08-02-2011
Toluene	12.6	0.50		ppbv	126%	70 - 130	11H0026	08-02-2011
trans-1,2-Dichloroethene	10.2	0.50		ppbv	102%	70 - 130	11H0026	08-02-2011
trans-1,3-Dichloropropene	12.6	0.50		ppbv	126%	70 - 130	11H0026	08-02-2011
Trichloroethene	11.2	0.50		ppbv	112%	70 - 130	11H0026	08-02-2011
Trichlorofluoromethane	9.48	0.50		ppbv	95%	70 - 130	11H0026	08-02-2011
Vinyl Acetate	11.4	0.50		ppbv	114%	70 - 130	11H0026	08-02-2011
Vinyl chloride	9.47	0.50		ppbv	95%	70 - 130	11H0026	08-02-2011
Surrogate: 4-Bromofluorobenzene	10.2	0.50			102%	70 - 130	11H0026	08-02-2011
11H0136-BS1								
1,1-Dichloroethene	7.74	0.50		ppbv	77%	70 - 130	11H0136	08-03-2011
Surrogate: 4-Bromofluorobenzene	10.2	0.50			102%	70 - 130	11H0136	08-03-2011

LCS Dup

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Analyte	Result	RL	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Volatile Organic Compounds by EPA TO-15												
11H0026-BSD1												
1,1,1-Trichloroethane	10.4	0.50		ppbv	10.0	104%	70 - 130	2	25	11H0026		08-03-2011
1,1,2,2-Tetrachloroethane	11.3	0.50		ppbv	10.0	113%	70 - 130	4	25	11H0026		08-03-2011
1,1,2-Trichloroethane	11.0	0.50		ppbv	10.0	110%	70 - 130	6	25	11H0026		08-03-2011
1,1-Dichloroethane	10.7	0.50		ppbv	10.0	107%	70 - 130	1	25	11H0026		08-03-2011
1,1-Dichloroethene	10.5	0.50		ppbv	10.0	105%	70 - 130	10	25	11H0026		08-03-2011
1,2,4-Trichlorobenzene	11.6	2.00		ppbv	10.0	116%	70 - 130	6	25	11H0026		08-03-2011
1,2,4-Trimethylbenzene	12.2	0.50		ppbv	10.0	122%	70 - 130	4	25	11H0026		08-03-2011
1,2-Dibromoethane (EDB)	10.9	1.00		ppbv	10.0	109%	70 - 130	7	25	11H0026		08-03-2011
1,2-Dichlorobenzene	11.0	0.50		ppbv	10.0	110%	70 - 130	5	25	11H0026		08-03-2011
1,2-Dichloroethane	10.4	0.50		ppbv	10.0	104%	70 - 130	3	25	11H0026		08-03-2011
1,2-Dichloropropane	11.2	0.50		ppbv	10.0	112%	70 - 130	5	25	11H0026		08-03-2011
1,3,5-Trimethylbenzene	12.1	0.50		ppbv	10.0	121%	70 - 130	4	25	11H0026		08-03-2011
1,3-Butadiene	9.57	0.50		ppbv	10.0	96%	70 - 130	2	25	11H0026		08-03-2011
1,3-Dichlorobenzene	11.0	0.50		ppbv	10.0	110%	70 - 130	5	25	11H0026		08-03-2011
1,4-Dichlorobenzene	11.1	0.50		ppbv	10.0	111%	70 - 130	4	25	11H0026		08-03-2011
2,2,4-Trimethylpentane	10.6	0.50		ppbv	10.0	106%	70 - 130	10	25	11H0026		08-03-2011
2-Butanone (MEK)	11.9	1.00		ppbv	10.0	119%	70 - 130	6	25	11H0026		08-03-2011
2-Hexanone	12.5	1.00	V1	ppbv	10.0	125%	70 - 130	7	25	11H0026		08-03-2011
2-Propanol	10.7	2.00		ppbv	10.0	107%	70 - 130	2	25	11H0026		08-03-2011
4-Ethyltoluene	12.3	0.50		ppbv	10.0	123%	70 - 130	3	25	11H0026		08-03-2011
4-Methyl-2-pentanone (MIBK)	12.2	1.00	V1	ppbv	10.0	122%	70 - 130	8	25	11H0026		08-03-2011
Acetone	11.2	5.00		ppbv	10.0	112%	70 - 130	5	25	11H0026		08-03-2011
Allyl Chloride	11.1	0.50		ppbv	10.0	111%	70 - 130	2	25	11H0026		08-03-2011
Benzene	10.8	0.50		ppbv	10.0	108%	70 - 130	4	25	11H0026		08-03-2011
Benzyl Chloride	14.2	2.00	V1,L3	ppbv	10.0	142%	70 - 130	6	25	11H0026		08-03-2011
Bromodichloromethane	10.8	0.50		ppbv	10.0	108%	70 - 130	11	25	11H0026		08-03-2011
Bromoethene(Vinyl Bromide)	9.66	0.50		ppbv	10.0	97%	70 - 130	1	25	11H0026		08-03-2011
Bromoform	11.2	0.50		ppbv	10.0	112%	70 - 130	4	25	11H0026		08-03-2011
Bromomethane	9.57	0.50		ppbv	10.0	96%	70 - 130	0.8	25	11H0026		08-03-2011
Carbon disulfide	9.48	0.50		ppbv	10.0	95%	70 - 130	0.7	25	11H0026		08-03-2011
Carbon tetrachloride	10.3	0.50		ppbv	10.0	103%	70 - 130	1	25	11H0026		08-03-2011
Chlorobenzene	10.9	0.50		ppbv	10.0	109%	70 - 130	4	25	11H0026		08-03-2011
Chloroethane	10.1	0.50		ppbv	10.0	101%	70 - 130	3	25	11H0026		08-03-2011
Chloroform	10.2	0.50		ppbv	10.0	102%	70 - 130	0.9	25	11H0026		08-03-2011
Chloromethane	9.40	0.50		ppbv	10.0	94%	70 - 130	0.9	25	11H0026		08-03-2011
cis-1,2-Dichloroethene	10.4	0.50		ppbv	10.0	104%	70 - 130	1	25	11H0026		08-03-2011
cis-1,3-Dichloropropene	11.5	0.50		ppbv	10.0	115%	70 - 130	7	25	11H0026		08-03-2011
Cyclohexane	10.9	0.50		ppbv	10.0	109%	70 - 130	2	25	11H0026		08-03-2011
Dibromochloromethane	10.8	0.50		ppbv	10.0	108%	70 - 130	10	25	11H0026		08-03-2011
Dichlorodifluoromethane	9.07	0.50		ppbv	10.0	91%	70 - 130	2	25	11H0026		08-03-2011
Dichlorotetrafluoroethane(F-114)	9.58	0.50		ppbv	10.0	96%	70 - 130	2	25	11H0026		08-03-2011
Ethyl Acetate	12.0	0.50		ppbv	10.0	120%	70 - 130	6	25	11H0026		08-03-2011

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LCS Dup - Cont.

Analyte	Result	RL	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Volatile Organic Compounds by EPA TO-15												
11H0026-BSD1												
Ethylbenzene	12.2	0.50		ppbv	10.0	122%	70 - 130	2	25	11H0026		08-03-2011
Freon 113	9.92	0.50		ppbv	10.0	99%	70 - 130	2	25	11H0026		08-03-2011
Heptane	10.2	0.50		ppbv	10.0	102%	70 - 130	11	25	11H0026		08-03-2011
Hexachlorobutadiene	11.2	1.00		ppbv	10.0	112%	70 - 130	6	25	11H0026		08-03-2011
Hexane	10.8	0.50		ppbv	10.0	108%	70 - 130	2	25	11H0026		08-03-2011
Isopropylbenzene	12.3	0.50		ppbv	10.0	123%	70 - 130	4	25	11H0026		08-03-2011
m,p-Xylenes	24.5	1.00		ppbv	20.0	123%	70 - 130	2	25	11H0026		08-03-2011
Methylene Chloride	9.99	0.50		ppbv	10.0	100%	70 - 130	1	25	11H0026		08-03-2011
Methyl-tert-butyl Ether (MTBE)	11.7	1.00		ppbv	10.0	117%	70 - 130	8	25	11H0026		08-03-2011
Naphthalene	12.2	5.00		ppbv	10.0	122%	70 - 130	5	25	11H0026		08-03-2011
n-Butylbenzene	12.6	0.50		ppbv	10.0	126%	70 - 130	0.3	25	11H0026		08-03-2011
n-Nonane (C9)	12.1	0.50		ppbv	10.0	121%	70 - 130	4	25	11H0026		08-03-2011
n-Octane (C8)	11.4	0.50		ppbv	10.0	114%	70 - 130	11	25	11H0026		08-03-2011
n-Propylbenzene	12.2	0.50		ppbv	10.0	122%	70 - 130	3	25	11H0026		08-03-2011
o-Xylene	11.7	0.50		ppbv	10.0	117%	70 - 130	2	25	11H0026		08-03-2011
Propene	9.30	0.50		ppbv	10.0	93%	70 - 130	0.1	25	11H0026		08-03-2011
sec-Butylbenzene	12.1	0.50		ppbv	10.0	121%	70 - 130	3	25	11H0026		08-03-2011
Styrene	12.3	0.50		ppbv	10.0	123%	70 - 130	3	25	11H0026		08-03-2011
tert-Butylbenzene	12.1	0.50		ppbv	10.0	121%	70 - 130	4	25	11H0026		08-03-2011
Tetrachloroethene	10.1	0.50		ppbv	10.0	101%	70 - 130	11	25	11H0026		08-03-2011
Tetrahydrofuran	12.1	2.00		ppbv	10.0	121%	70 - 130	6	25	11H0026		08-03-2011
Toluene	11.8	0.50		ppbv	10.0	118%	70 - 130	6	25	11H0026		08-03-2011
trans-1,2-Dichloroethene	10.3	0.50		ppbv	10.0	103%	70 - 130	1	25	11H0026		08-03-2011
trans-1,3-Dichloropropene	12.0	0.50		ppbv	10.0	120%	70 - 130	5	25	11H0026		08-03-2011
Trichloroethene	10.1	0.50		ppbv	10.0	101%	70 - 130	11	25	11H0026		08-03-2011
Trichlorofluoromethane	9.49	0.50		ppbv	10.0	95%	70 - 130	0.1	25	11H0026		08-03-2011
Vinyl Acetate	12.4	0.50		ppbv	10.0	124%	70 - 130	9	25	11H0026		08-03-2011
Vinyl chloride	9.59	0.50		ppbv	10.0	96%	70 - 130	1	25	11H0026		08-03-2011
Surrogate: 4-Bromofluorobenzene	10.3	0.50		ppbv	10.0	103%	70 - 130			11H0026		08-03-2011
11H0136-BSD1												
1,1-Dichloroethene	8.65	0.50		ppbv	10.0	86%	70 - 130	11	25	11H0136		08-03-2011
Surrogate: 4-Bromofluorobenzene	10.4	0.50		ppbv	10.0	104%	70 - 130			11H0136		08-03-2011

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Gregory Guimond

Work Order: PUG1642
Project: UPCO-3994011/TO15
Project Number: UPCO

Received: 07/26/11
Reported: 08/04/11 13:49

CERTIFICATION SUMMARY

Analyses included in this report were performed by TestAmerica Phoenix, 4625 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ 85040.

TestAmerica Phoenix (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1010, NIOSH 1015, NIOSH 1022, NIOSH 1300, NIOSH 1400, NIOSH 1401, NIOSH 1403, NIOSH 1405, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1550, NIOSH 1602, NIOSH 1604, NIOSH 1606, NIOSH 1609, NIOSH 1610, NIOSH 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2016, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7303, NIOSH 7600, NIOSH 7903, NIOSH 9100, NIOSH 9102, EPA IP-6A, EPA IP-6C, OSHA PV2120, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, OSHA ID-125G, OSHA IS-215, OSHA 1001, OSHA 1002, OSHA 1003, OSHA 1004, OSHA 1005 and OSHA Chemical and Sampling Information for Silane. Volatile organic compounds on 3M Organic Vapor Monitors, Assay Technology Passive Monitors and SKC Passive Monitors. Formaldehyde and other aldehydes and ketones on Assay Technology Passive Monitor. Aldehydes and ketones by EPA TO-11A.

The TestAmerica Phoenix is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Phoenix also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

- OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Gregory Guimond

Work Order: PUG1642
Project: UPCO-3994011/TO15
Project Number: UPCO

Received: 07/26/11
Reported: 08/04/11 13:49

DATA QUALIFIERS AND DEFINITIONS

- L3** Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
- N1** See case narrative.
- V1** Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.

ADDITIONAL COMMENTS

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.
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Client Contact Information				Project Manager: <i>Greg Guinond</i>				Page <u>1</u> of <u>1</u> COCs											
Company: <i>Malcolm Pirnie Inc</i>				Phone: <i>602-241-1770</i>				Samples Collected By: <i>Brian Bachmann / Mark Sawko</i>											
Address: <i>4646 E. Van Buren St Ste 400</i>				Email: <i>gg@pirnie.com</i>															
City/State/Zip: <i>Phoenix AZ 85008</i>				Site Contact:															
Phone: <i>602-241-1770</i>				LAB Contact: <i>Carlene McCutchen</i>															
FAX: <i>602-231-0131</i>				Analysis Turnaround Time															
Project Name: <i>UPCO</i>				Standard (Specify) _____															
Site: <i>Happy Valley Rd / Central Ave</i>				Rush (Specify) _____															
PO #																			
Sample Identification		Sample Date(s)	Time Start	Time Stop	Canister Model (Liters)	Flow Controller ID	Canister ID	TO-15 (Full or IAQ)	TO-14A	TO-3	EPA 25C	ASTM D-1946 (Fixed Gases)	Other (Please specify in notes section)	Sample Type	Indoor Air (IAQ)	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
<i>SVMW-1-30-40</i>		<i>7/26/11</i>			<i>0.4, 1.0, 6.0</i>		<i>1317</i>	<input checked="" type="checkbox"/>									<input checked="" type="checkbox"/>		<i>-01</i>
<i>SVMW-1-90-100</i>		<i>↓</i>			<i>0.4, 1.0, 6.0</i>		<i>1816</i>	<input checked="" type="checkbox"/>									<input checked="" type="checkbox"/>		<i>-02</i>
<i>SVMW-1-140-150</i>		<i>↓</i>			<i>0.4, 1.0, 6.0</i>		<i>1675</i>	<input checked="" type="checkbox"/>									<input checked="" type="checkbox"/>		<i>-03</i>
<i>SVMW-1-190-200</i>		<i>↓</i>			<i>0.4, 1.0, 6.0</i>		<i>1254</i>	<input checked="" type="checkbox"/>									<input checked="" type="checkbox"/>		<i>-04</i>
					<i>0.4, 1.0, 6.0</i>														
					<i>0.4, 1.0, 6.0</i>														
					<i>0.4, 1.0, 6.0</i>														
					<i>0.4, 1.0, 6.0</i>														
					<i>0.4, 1.0, 6.0</i>														
					<i>0.4, 1.0, 6.0</i>														
					<i>0.4, 1.0, 6.0</i>														
Special Instructions/QC Requirements & Comments:																			
Samples Shipped by:				Date/Time:				Samples Received by:								<i>20.0°C</i>			
Samples Relinquished by: <i>Mark Sawko</i>				Date/Time: <i>7-26-11 15:30</i>				Received by:											
Relinquished by:				Date/Time:				Received by: <i>[Signature]</i> <i>7/26/11 1530</i>											

Lab Use Only

Shipper Name:

Opened by:

Condition:

November 09, 2011

LABORATORY REPORT

Client:

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attn: Chris Legg

Work Order: PUJ1542
Project Name: UPCO-3994018
Project Number: UPCO 3994018
Date Received: 10/25/11
Final Report: 11/09/11 08:00

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

The Chain of Custody, 1 page, is included and is an integral part of this report. This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE:

SAMPLE RECEIPT: Samples were received intact, at 20°C and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

The daily second source continuing calibration verification standard recovered high and outside of acceptance limits for 1,2,4-Trichlorobenzene and Hexachlorobutadiene. All associated samples are non-detect for these analytes and therefore should not be impacted.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Approved By:



Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Chris Legg

Work Order: PUJ1542
Project: UPCO-3994018
Project Number: UPCO 3994018

Received: 10/25/11
Reported: 11/09/11 08:00

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

SVMW-1-30-40
SVMW-1-90-100
SVMW-1-140-150
SVMW-1-190-200

PUJ1542-01
PUJ1542-02
PUJ1542-03
PUJ1542-04

10/25/11
10/25/11
10/25/11
10/25/11

S/N 0647 1L Canister
S/N 1431 1L Canister
S/N 1249 1L Canister
S/N 0241 1L Canister

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Chris Legg

Work Order: PUJ1542
Project: UPCO-3994018
Project Number: UPCO 3994018

Received: 10/25/11
Reported: 11/09/11 08:00

ANALYTICAL REPORT

	<u>ppbv</u>		<u>ug/m3</u>		<u>Data</u>		<u>Date</u>	<u>Analyst</u>	<u>Method</u>
	<u>Result</u>	<u>RL</u>	<u>Result</u>	<u>RL</u>	<u>Qualifiers</u>	<u>Dilution</u>	<u>Analyzed</u>		
Volatile Organic Compounds by EPA TO-15									
Sample ID: PUJ1542-01 (SVMW-1-30-40)									
	Sampling Time: min				Sampled: 10/25/11 09:24				
1,1,1-Trichloroethane	<0.50	0.50	<2.7	2.7		1.0	10/28/2011	LC	EPA TO15
1,1,2,2-Tetrachloroethane	<0.50	0.50	<3.4	3.4		1.0	10/28/2011	LC	EPA TO15
1,1,2-Trichloroethane	<0.50	0.50	<2.7	2.7		1.0	10/28/2011	LC	EPA TO15
1,1-Dichloroethane	20	0.50	81	2.0		1.0	10/28/2011	LC	EPA TO15
1,2,4-Trichlorobenzene	<2.0	2.0	<15	15	N1	1.0	10/28/2011	LC	EPA TO15
1,2,4-Trimethylbenzene	0.62	0.50	3.1	2.5		1.0	10/28/2011	LC	EPA TO15
1,2-Dibromoethane (EDB)	<1.0	1.0	<7.7	7.7		1.0	10/28/2011	LC	EPA TO15
1,2-Dichlorobenzene	<0.50	0.50	<3.0	3.0		1.0	10/28/2011	LC	EPA TO15
1,2-Dichloroethane	<0.50	0.50	<2.0	2.0		1.0	10/28/2011	LC	EPA TO15
1,2-Dichloropropane	<0.50	0.50	<2.3	2.3		1.0	10/28/2011	LC	EPA TO15
1,3,5-Trimethylbenzene	<0.50	0.50	<2.5	2.5		1.0	10/28/2011	LC	EPA TO15
1,3-Butadiene	<0.50	0.50	<1.1	1.1		1.0	10/28/2011	LC	EPA TO15
1,3-Dichlorobenzene	<0.50	0.50	<3.0	3.0		1.0	10/28/2011	LC	EPA TO15
1,4-Dichlorobenzene	<0.50	0.50	<3.0	3.0		1.0	10/28/2011	LC	EPA TO15
2,2,4-Trimethylpentane	0.50	0.50	2.3	2.3		1.0	10/28/2011	LC	EPA TO15
2-Hexanone	7.5	1.0	31	4.1		1.0	10/28/2011	LC	EPA TO15
2-Propanol	<2.0	2.0	<4.9	4.9		1.0	10/28/2011	LC	EPA TO15
4-Ethyltoluene	<0.50	0.50	<2.5	2.5		1.0	10/28/2011	LC	EPA TO15
4-Methyl-2-pentanone (MIBK)	<1.0	1.0	<4.1	4.1		1.0	10/28/2011	LC	EPA TO15
Allyl Chloride	<0.50	0.50	<1.6	1.6		1.0	10/28/2011	LC	EPA TO15
Benzene	1.2	0.50	3.8	1.6		1.0	10/28/2011	LC	EPA TO15
Benzyl Chloride	<2.0	2.0	<10	10		1.0	10/28/2011	LC	EPA TO15
Bromodichloromethane	<0.50	0.50	<3.4	3.4		1.0	10/28/2011	LC	EPA TO15
Bromoethene(Vinyl Bromide)	<0.50	0.50	<2.2	2.2		1.0	10/28/2011	LC	EPA TO15
Bromoform	<0.50	0.50	<5.2	5.2		1.0	10/28/2011	LC	EPA TO15
Bromomethane	0.63	0.50	2.5	1.9		1.0	10/28/2011	LC	EPA TO15
Carbon disulfide	1.2	0.50	3.7	1.6		1.0	10/28/2011	LC	EPA TO15
Carbon tetrachloride	<0.50	0.50	<3.1	3.1		1.0	10/28/2011	LC	EPA TO15
Chlorobenzene	<0.50	0.50	<2.3	2.3		1.0	10/28/2011	LC	EPA TO15
Chloroethane	<0.50	0.50	<1.3	1.3		1.0	10/28/2011	LC	EPA TO15
Chloroform	4.7	0.50	23	2.4		1.0	10/28/2011	LC	EPA TO15
Chloromethane	0.52	0.50	1.1	1.0		1.0	10/28/2011	LC	EPA TO15
cis-1,2-Dichloroethene	<0.50	0.50	<2.0	2.0		1.0	10/28/2011	LC	EPA TO15
cis-1,3-Dichloropropene	<0.50	0.50	<2.3	2.3		1.0	10/28/2011	LC	EPA TO15
Cyclohexane	<0.50	0.50	<1.7	1.7		1.0	10/28/2011	LC	EPA TO15
Dibromochloromethane	<0.50	0.50	<4.3	4.3		1.0	10/28/2011	LC	EPA TO15
Dichlorodifluoromethane	3.7	0.50	18	2.5		1.0	10/28/2011	LC	EPA TO15
Dichlorotetrafluoroethane(F-114)	<0.50	0.50	<3.5	3.5		1.0	10/28/2011	LC	EPA TO15
Ethyl Acetate	0.68	0.50	2.5	1.8		1.0	10/28/2011	LC	EPA TO15
Ethylbenzene	1.3	0.50	5.6	2.2		1.0	10/28/2011	LC	EPA TO15
Freon 113	3.9	0.50	30	3.8		1.0	10/28/2011	LC	EPA TO15
Heptane	<0.50	0.50	<2.0	2.0		1.0	10/28/2011	LC	EPA TO15
Hexachlorobutadiene	<1.0	1.0	<11	11	N1	1.0	10/28/2011	LC	EPA TO15

ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Chris Legg

Work Order: PUJ1542
 Project: UPCO-3994018
 Project Number: UPCO 3994018

Received: 10/25/11
 Reported: 11/09/11 08:00

	<u>ppbv</u>		<u>ug/m3</u>		Data Qualifiers	Dilution	Date Analyzed	Analyst	Method
	Result	RL	Result	RL					
Volatile Organic Compounds by EPA TO-15									
Sample ID: PUJ1542-01 (SVMW-1-30-40) - cont.			Sampling Time: min			Sampled: 10/25/11 09:24			
Hexane	2.3	0.50	8.1	1.8	1.0		10/28/2011	LC	EPA TO15
Isopropylbenzene	<0.50	0.50	<2.5	2.5	1.0		10/28/2011	LC	EPA TO15
m,p-Xylenes	5.7	1.0	25	4.3	1.0		10/28/2011	LC	EPA TO15
Methylene Chloride	2.8	0.50	9.7	1.7	1.0		10/28/2011	LC	EPA TO15
Methyl-tert-butyl Ether (MTBE)	<1.0	1.0	<3.6	3.6	1.0		10/28/2011	LC	EPA TO15
Naphthalene	<5.0	5.0	<26	26	1.0		10/28/2011	LC	EPA TO15
n-Butylbenzene	<0.50	0.50	<2.7	2.7	1.0		10/28/2011	LC	EPA TO15
n-Nonane (C9)	<0.50	0.50	<2.6	2.6	1.0		10/28/2011	LC	EPA TO15
n-Octane (C8)	1.6	0.50	7.5	2.3	1.0		10/28/2011	LC	EPA TO15
n-Propylbenzene	<0.50	0.50	<2.5	2.5	1.0		10/28/2011	LC	EPA TO15
o-Xylene	1.2	0.50	5.2	2.2	1.0		10/28/2011	LC	EPA TO15
Propene	<0.50	0.50	<0.86	0.86	1.0		10/28/2011	LC	EPA TO15
sec-Butylbenzene	<0.50	0.50	<2.7	2.7	1.0		10/28/2011	LC	EPA TO15
Styrene	<0.50	0.50	<2.1	2.1	1.0		10/28/2011	LC	EPA TO15
tert-Butylbenzene	<0.50	0.50	<2.7	2.7	1.0		10/28/2011	LC	EPA TO15
Tetrahydrofuran	<2.0	2.0	<5.9	5.9	1.0		10/28/2011	LC	EPA TO15
Toluene	1.4	0.50	5.3	1.9	1.0		10/28/2011	LC	EPA TO15
trans-1,2-Dichloroethene	<0.50	0.50	<2.0	2.0	1.0		10/28/2011	LC	EPA TO15
trans-1,3-Dichloropropene	<0.50	0.50	<2.3	2.3	1.0		10/28/2011	LC	EPA TO15
Trichloroethene	26	0.50	140	2.7	1.0		10/28/2011	LC	EPA TO15
Trichlorofluoromethane	<0.50	0.50	<2.8	2.8	1.0		10/28/2011	LC	EPA TO15
Vinyl Acetate	<0.50	0.50	<1.8	1.8	1.0		10/28/2011	LC	EPA TO15
Vinyl chloride	<0.50	0.50	<1.3	1.3	1.0		10/28/2011	LC	EPA TO15
Surrogate: 4-Bromofluorobenzene	93 %		Limit 70-130						

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	<u>ppbv</u>		<u>ug/m3</u>		Data Qualifiers	Dilution	Date Analyzed	Analyst	Method
	Result	RL	Result	RL					
Volatile Organic Compounds by EPA TO-15									
Sample ID: PUJ1542-01RE1 (SVMW-1-30-40)			Sampling Time: min			Sampled: 10/25/11 09:24			
2-Butanone (MEK)	64	19	190	56	19	10/29/2011	LC	EPA TO15	
Acetone	220	97	520	230	19	10/29/2011	LC	EPA TO15	
Tetrachloroethene	28	9.7	190	66	19	10/29/2011	LC	EPA TO15	
Surrogate: 4-Bromofluorobenzene	90 %		Limit 70-130						

ARCADIS U.S., Inc. - Phoenix
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	<u>ppbv</u>		<u>ug/m3</u>		Data Qualifiers	Dilution	Date Analyzed	Analyst	Method
	Result	RL	Result	RL					
Volatile Organic Compounds by EPA TO-15									
Sample ID: PUJ1542-01RE2 (SVMW-1-30-40)					Sampling Time: min		Sampled: 10/25/11 09:24		
1,1-Dichloroethene	1900	50	7500	200		100	11/4/2011	LC	EPA TO15
Surrogate: 4-Bromofluorobenzene	95 %		Limit 70-130						

ARCADIS U.S., Inc. - Phoenix
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	<u>ppbv</u>		<u>ug/m3</u>		<u>Data</u>		<u>Date</u>	<u>Analyst</u>	<u>Method</u>	
	<u>Result</u>	<u>RL</u>	<u>Result</u>	<u>RL</u>	<u>Qualifiers</u>	<u>Dilution</u>	<u>Analyzed</u>			
Volatile Organic Compounds by EPA TO-15										
Sample ID: PUJ1542-02 (SVMW-1-90-100)			Sampling Time: min				Sampled: 10/25/11 09:53			
1,1,1-Trichloroethane	<0.50	0.50	<2.7	2.7		1.0	10/29/2011	LC	EPA TO15	
1,1,2,2-Tetrachloroethane	<0.50	0.50	<3.4	3.4		1.0	10/29/2011	LC	EPA TO15	
1,1,2-Trichloroethane	<0.50	0.50	<2.7	2.7		1.0	10/29/2011	LC	EPA TO15	
1,1-Dichloroethane	1.6	0.50	6.5	2.0		1.0	10/29/2011	LC	EPA TO15	
1,2,4-Trichlorobenzene	<2.0	2.0	<15	15	N1	1.0	10/29/2011	LC	EPA TO15	
1,2,4-Trimethylbenzene	<0.50	0.50	<2.5	2.5		1.0	10/29/2011	LC	EPA TO15	
1,2-Dibromoethane (EDB)	<1.0	1.0	<7.7	7.7		1.0	10/29/2011	LC	EPA TO15	
1,2-Dichlorobenzene	<0.50	0.50	<3.0	3.0		1.0	10/29/2011	LC	EPA TO15	
1,2-Dichloroethane	<0.50	0.50	<2.0	2.0		1.0	10/29/2011	LC	EPA TO15	
1,2-Dichloropropane	<0.50	0.50	<2.3	2.3		1.0	10/29/2011	LC	EPA TO15	
1,3,5-Trimethylbenzene	<0.50	0.50	<2.5	2.5		1.0	10/29/2011	LC	EPA TO15	
1,3-Butadiene	<0.50	0.50	<1.1	1.1		1.0	10/29/2011	LC	EPA TO15	
1,3-Dichlorobenzene	<0.50	0.50	<3.0	3.0		1.0	10/29/2011	LC	EPA TO15	
1,4-Dichlorobenzene	<0.50	0.50	<3.0	3.0		1.0	10/29/2011	LC	EPA TO15	
2,2,4-Trimethylpentane	<0.50	0.50	<2.3	2.3		1.0	10/29/2011	LC	EPA TO15	
2-Butanone (MEK)	40	1.0	120	2.9		1.0	10/29/2011	LC	EPA TO15	
2-Hexanone	2.6	1.0	11	4.1		1.0	10/29/2011	LC	EPA TO15	
2-Propanol	<2.0	2.0	<4.9	4.9		1.0	10/29/2011	LC	EPA TO15	
4-Ethyltoluene	<0.50	0.50	<2.5	2.5		1.0	10/29/2011	LC	EPA TO15	
4-Methyl-2-pentanone (MIBK)	<1.0	1.0	<4.1	4.1		1.0	10/29/2011	LC	EPA TO15	
Allyl Chloride	<0.50	0.50	<1.6	1.6		1.0	10/29/2011	LC	EPA TO15	
Benzene	0.50	0.50	1.6	1.6		1.0	10/29/2011	LC	EPA TO15	
Benzyl Chloride	<2.0	2.0	<10	10		1.0	10/29/2011	LC	EPA TO15	
Bromodichloromethane	<0.50	0.50	<3.4	3.4		1.0	10/29/2011	LC	EPA TO15	
Bromoethene(Vinyl Bromide)	<0.50	0.50	<2.2	2.2		1.0	10/29/2011	LC	EPA TO15	
Bromoform	<0.50	0.50	<5.2	5.2		1.0	10/29/2011	LC	EPA TO15	
Bromomethane	1.7	0.50	6.6	1.9		1.0	10/29/2011	LC	EPA TO15	
Carbon disulfide	<0.50	0.50	<1.6	1.6		1.0	10/29/2011	LC	EPA TO15	
Carbon tetrachloride	<0.50	0.50	<3.1	3.1		1.0	10/29/2011	LC	EPA TO15	
Chlorobenzene	<0.50	0.50	<2.3	2.3		1.0	10/29/2011	LC	EPA TO15	
Chloroethane	<0.50	0.50	<1.3	1.3		1.0	10/29/2011	LC	EPA TO15	
Chloroform	<0.50	0.50	<2.4	2.4		1.0	10/29/2011	LC	EPA TO15	
Chloromethane	0.65	0.50	1.3	1.0		1.0	10/29/2011	LC	EPA TO15	
cis-1,2-Dichloroethene	<0.50	0.50	<2.0	2.0		1.0	10/29/2011	LC	EPA TO15	
cis-1,3-Dichloropropene	<0.50	0.50	<2.3	2.3		1.0	10/29/2011	LC	EPA TO15	
Cyclohexane	<0.50	0.50	<1.7	1.7		1.0	10/29/2011	LC	EPA TO15	
Dibromochloromethane	<0.50	0.50	<4.3	4.3		1.0	10/29/2011	LC	EPA TO15	
Dichlorodifluoromethane	0.60	0.50	3.0	2.5		1.0	10/29/2011	LC	EPA TO15	
Dichlorotetrafluoroethane(F-114)	<0.50	0.50	<3.5	3.5		1.0	10/29/2011	LC	EPA TO15	
Ethyl Acetate	<0.50	0.50	<1.8	1.8		1.0	10/29/2011	LC	EPA TO15	
Ethylbenzene	<0.50	0.50	<2.2	2.2		1.0	10/29/2011	LC	EPA TO15	
Freon 113	<0.50	0.50	<3.8	3.8		1.0	10/29/2011	LC	EPA TO15	
Heptane	<0.50	0.50	<2.0	2.0		1.0	10/29/2011	LC	EPA TO15	
Hexachlorobutadiene	<1.0	1.0	<11	11	N1	1.0	10/29/2011	LC	EPA TO15	
Hexane	1.0	0.50	3.5	1.8		1.0	10/29/2011	LC	EPA TO15	

ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Chris Legg

Work Order: PUJ1542
 Project: UPCO-3994018
 Project Number: UPCO 3994018

Received: 10/25/11
 Reported: 11/09/11 08:00

	<u>ppbv</u>		<u>ug/m3</u>		Data Qualifiers	Dilution	Date Analyzed	Analyst	Method
	Result	RL	Result	RL					
Volatile Organic Compounds by EPA TO-15									
Sample ID: PUJ1542-02 (SVMW-1-90-100) - cont.					Sampling Time: min		Sampled: 10/25/11 09:53		
Isopropylbenzene	<0.50	0.50	<2.5	2.5		1.0	10/29/2011	LC	EPA TO15
m,p-Xylenes	<1.0	1.0	<4.3	4.3		1.0	10/29/2011	LC	EPA TO15
Methylene Chloride	<0.50	0.50	<1.7	1.7		1.0	10/29/2011	LC	EPA TO15
Methyl-tert-butyl Ether (MTBE)	<1.0	1.0	<3.6	3.6		1.0	10/29/2011	LC	EPA TO15
Naphthalene	<5.0	5.0	<26	26		1.0	10/29/2011	LC	EPA TO15
n-Butylbenzene	<0.50	0.50	<2.7	2.7		1.0	10/29/2011	LC	EPA TO15
n-Nonane (C9)	<0.50	0.50	<2.6	2.6		1.0	10/29/2011	LC	EPA TO15
n-Octane (C8)	<0.50	0.50	<2.3	2.3		1.0	10/29/2011	LC	EPA TO15
n-Propylbenzene	<0.50	0.50	<2.5	2.5		1.0	10/29/2011	LC	EPA TO15
o-Xylene	<0.50	0.50	<2.2	2.2		1.0	10/29/2011	LC	EPA TO15
Propene	<0.50	0.50	<0.86	0.86		1.0	10/29/2011	LC	EPA TO15
sec-Butylbenzene	<0.50	0.50	<2.7	2.7		1.0	10/29/2011	LC	EPA TO15
Styrene	<0.50	0.50	<2.1	2.1		1.0	10/29/2011	LC	EPA TO15
tert-Butylbenzene	<0.50	0.50	<2.7	2.7		1.0	10/29/2011	LC	EPA TO15
Tetrachloroethene	32	0.50	220	3.4		1.0	10/29/2011	LC	EPA TO15
Tetrahydrofuran	<2.0	2.0	<5.9	5.9		1.0	10/29/2011	LC	EPA TO15
Toluene	<0.50	0.50	<1.9	1.9		1.0	10/29/2011	LC	EPA TO15
trans-1,2-Dichloroethene	<0.50	0.50	<2.0	2.0		1.0	10/29/2011	LC	EPA TO15
trans-1,3-Dichloropropene	<0.50	0.50	<2.3	2.3		1.0	10/29/2011	LC	EPA TO15
Trichloroethene	9.9	0.50	53	2.7		1.0	10/29/2011	LC	EPA TO15
Trichlorofluoromethane	<0.50	0.50	<2.8	2.8		1.0	10/29/2011	LC	EPA TO15
Vinyl Acetate	<0.50	0.50	<1.8	1.8		1.0	10/29/2011	LC	EPA TO15
Vinyl chloride	<0.50	0.50	<1.3	1.3		1.0	10/29/2011	LC	EPA TO15
Surrogate: 4-Bromofluorobenzene	88 %		Limit 70-130						

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Received: 10/25/11
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	<u>ppbv</u>		<u>ug/m3</u>		Dilution	Date Analyzed	Analyst	Method
	Result	RL	Result	RL				
Volatile Organic Compounds by EPA TO-15								
Sample ID: PUJ1542-02RE1 (SVMW-1-90-100)	Sampling Time: min				Sampled: 10/25/11 09:53			
1,1-Dichloroethene	540	9.9	2100	39	20	10/29/2011	LC	EPA TO15
Acetone	100	99	240	240	20	10/29/2011	LC	EPA TO15
Surrogate: 4-Bromofluorobenzene	90 %		Limit 70-130					

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	<u>ppbv</u>		<u>ug/m3</u>		Data Qualifiers	Dilution	Date Analyzed	Analyst	Method
	Result	RL	Result	RL					
Volatile Organic Compounds by EPA TO-15									
Sample ID: PUJ1542-03 (SVMW-1-140-150)					Sampling Time: min		Sampled: 10/25/11 10:24		
1,1,1-Trichloroethane	<0.50	0.50	<2.7	2.7		1.0	10/29/2011	LC	EPA TO15
1,1,2,2-Tetrachloroethane	<0.50	0.50	<3.4	3.4		1.0	10/29/2011	LC	EPA TO15
1,1,2-Trichloroethane	<0.50	0.50	<2.7	2.7		1.0	10/29/2011	LC	EPA TO15
1,1-Dichloroethane	<0.50	0.50	<2.0	2.0		1.0	10/29/2011	LC	EPA TO15
1,2,4-Trichlorobenzene	<2.0	2.0	<15	15	N1	1.0	10/29/2011	LC	EPA TO15
1,2,4-Trimethylbenzene	<0.50	0.50	<2.5	2.5		1.0	10/29/2011	LC	EPA TO15
1,2-Dibromoethane (EDB)	<1.0	1.0	<7.7	7.7		1.0	10/29/2011	LC	EPA TO15
1,2-Dichlorobenzene	<0.50	0.50	<3.0	3.0		1.0	10/29/2011	LC	EPA TO15
1,2-Dichloroethane	<0.50	0.50	<2.0	2.0		1.0	10/29/2011	LC	EPA TO15
1,2-Dichloropropane	<0.50	0.50	<2.3	2.3		1.0	10/29/2011	LC	EPA TO15
1,3,5-Trimethylbenzene	<0.50	0.50	<2.5	2.5		1.0	10/29/2011	LC	EPA TO15
1,3-Butadiene	<0.50	0.50	<1.1	1.1		1.0	10/29/2011	LC	EPA TO15
1,3-Dichlorobenzene	<0.50	0.50	<3.0	3.0		1.0	10/29/2011	LC	EPA TO15
1,4-Dichlorobenzene	<0.50	0.50	<3.0	3.0		1.0	10/29/2011	LC	EPA TO15
2,2,4-Trimethylpentane	0.73	0.50	3.4	2.3		1.0	10/29/2011	LC	EPA TO15
2-Butanone (MEK)	45	1.0	130	2.9		1.0	10/29/2011	LC	EPA TO15
2-Hexanone	4.5	1.0	18	4.1		1.0	10/29/2011	LC	EPA TO15
2-Propanol	<2.0	2.0	<4.9	4.9		1.0	10/29/2011	LC	EPA TO15
4-Ethyltoluene	<0.50	0.50	<2.5	2.5		1.0	10/29/2011	LC	EPA TO15
4-Methyl-2-pentanone (MIBK)	<1.0	1.0	<4.1	4.1		1.0	10/29/2011	LC	EPA TO15
Allyl Chloride	<0.50	0.50	<1.6	1.6		1.0	10/29/2011	LC	EPA TO15
Benzene	8.0	0.50	26	1.6		1.0	10/29/2011	LC	EPA TO15
Benzyl Chloride	<2.0	2.0	<10	10		1.0	10/29/2011	LC	EPA TO15
Bromodichloromethane	<0.50	0.50	<3.4	3.4		1.0	10/29/2011	LC	EPA TO15
Bromoethene(Vinyl Bromide)	<0.50	0.50	<2.2	2.2		1.0	10/29/2011	LC	EPA TO15
Bromoform	<0.50	0.50	<5.2	5.2		1.0	10/29/2011	LC	EPA TO15
Bromomethane	0.54	0.50	2.1	1.9		1.0	10/29/2011	LC	EPA TO15
Carbon disulfide	<0.50	0.50	<1.6	1.6		1.0	10/29/2011	LC	EPA TO15
Carbon tetrachloride	<0.50	0.50	<3.1	3.1		1.0	10/29/2011	LC	EPA TO15
Chlorobenzene	<0.50	0.50	<2.3	2.3		1.0	10/29/2011	LC	EPA TO15
Chloroethane	<0.50	0.50	<1.3	1.3		1.0	10/29/2011	LC	EPA TO15
Chloroform	<0.50	0.50	<2.4	2.4		1.0	10/29/2011	LC	EPA TO15
Chloromethane	0.83	0.50	1.7	1.0		1.0	10/29/2011	LC	EPA TO15
cis-1,2-Dichloroethene	<0.50	0.50	<2.0	2.0		1.0	10/29/2011	LC	EPA TO15
cis-1,3-Dichloropropene	<0.50	0.50	<2.3	2.3		1.0	10/29/2011	LC	EPA TO15
Cyclohexane	<0.50	0.50	<1.7	1.7		1.0	10/29/2011	LC	EPA TO15
Dibromochloromethane	<0.50	0.50	<4.3	4.3		1.0	10/29/2011	LC	EPA TO15
Dichlorodifluoromethane	<0.50	0.50	<2.5	2.5		1.0	10/29/2011	LC	EPA TO15
Dichlorotetrafluoroethane(F-114)	<0.50	0.50	<3.5	3.5		1.0	10/29/2011	LC	EPA TO15
Ethyl Acetate	2.0	0.50	7.2	1.8		1.0	10/29/2011	LC	EPA TO15
Ethylbenzene	<0.50	0.50	<2.2	2.2		1.0	10/29/2011	LC	EPA TO15
Freon 113	<0.50	0.50	<3.8	3.8		1.0	10/29/2011	LC	EPA TO15
Heptane	<0.50	0.50	<2.0	2.0		1.0	10/29/2011	LC	EPA TO15
Hexachlorobutadiene	<1.0	1.0	<11	11	N1	1.0	10/29/2011	LC	EPA TO15
Hexane	1.8	0.50	6.3	1.8		1.0	10/29/2011	LC	EPA TO15

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Work Order: PUJ1542
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Received: 10/25/11
Reported: 11/09/11 08:00

	<u>ppbv</u>		<u>ug/m3</u>		Data Qualifiers	Dilution	Date Analyzed	Analyst	Method
	Result	RL	Result	RL					
Volatile Organic Compounds by EPA TO-15									
Sample ID: PUJ1542-03 (SVMW-1-140-150) - cont.			Sampling Time: min			Sampled: 10/25/11 10:24			
Isopropylbenzene	<0.50	0.50	<2.5	2.5		1.0	10/29/2011	LC	EPA TO15
m,p-Xylenes	<1.0	1.0	<4.3	4.3		1.0	10/29/2011	LC	EPA TO15
Methylene Chloride	<0.50	0.50	<1.7	1.7		1.0	10/29/2011	LC	EPA TO15
Methyl-tert-butyl Ether (MTBE)	<1.0	1.0	<3.6	3.6		1.0	10/29/2011	LC	EPA TO15
Naphthalene	<5.0	5.0	<26	26		1.0	10/29/2011	LC	EPA TO15
n-Butylbenzene	<0.50	0.50	<2.7	2.7		1.0	10/29/2011	LC	EPA TO15
n-Nonane (C9)	<0.50	0.50	<2.6	2.6		1.0	10/29/2011	LC	EPA TO15
n-Octane (C8)	<0.50	0.50	<2.3	2.3		1.0	10/29/2011	LC	EPA TO15
n-Propylbenzene	<0.50	0.50	<2.5	2.5		1.0	10/29/2011	LC	EPA TO15
o-Xylene	<0.50	0.50	<2.2	2.2		1.0	10/29/2011	LC	EPA TO15
Propene	<0.50	0.50	<0.86	0.86		1.0	10/29/2011	LC	EPA TO15
sec-Butylbenzene	<0.50	0.50	<2.7	2.7		1.0	10/29/2011	LC	EPA TO15
Styrene	<0.50	0.50	<2.1	2.1		1.0	10/29/2011	LC	EPA TO15
tert-Butylbenzene	<0.50	0.50	<2.7	2.7		1.0	10/29/2011	LC	EPA TO15
Tetrachloroethene	12	0.50	81	3.4		1.0	10/29/2011	LC	EPA TO15
Tetrahydrofuran	<2.0	2.0	<5.9	5.9		1.0	10/29/2011	LC	EPA TO15
Toluene	5.5	0.50	21	1.9		1.0	10/29/2011	LC	EPA TO15
trans-1,2-Dichloroethene	<0.50	0.50	<2.0	2.0		1.0	10/29/2011	LC	EPA TO15
trans-1,3-Dichloropropene	<0.50	0.50	<2.3	2.3		1.0	10/29/2011	LC	EPA TO15
Trichloroethene	<0.50	0.50	<2.7	2.7		1.0	10/29/2011	LC	EPA TO15
Trichlorofluoromethane	<0.50	0.50	<2.8	2.8		1.0	10/29/2011	LC	EPA TO15
Vinyl Acetate	<0.50	0.50	<1.8	1.8		1.0	10/29/2011	LC	EPA TO15
Vinyl chloride	<0.50	0.50	<1.3	1.3		1.0	10/29/2011	LC	EPA TO15
Surrogate: 4-Bromofluorobenzene	90 %		Limit 70-130						

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	<u>ppbv</u>		<u>ug/m3</u>		Data Qualifiers	Dilution	Date Analyzed	Analyst	Method
	Result	RL	Result	RL					
Volatile Organic Compounds by EPA TO-15									
Sample ID: PUJ1542-03RE1 (SVMW-1-140-150)					Sampling Time: min		Sampled: 10/25/11 10:24		
1,1-Dichloroethene	30	10	120	40		21	10/29/2011	LC	EPA TO15
Acetone	110	100	260	240		21	10/29/2011	LC	EPA TO15
Surrogate: 4-Bromofluorobenzene	91 %		Limit 70-130						

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	<u>ppbv</u>		<u>ug/m3</u>		Data Qualifiers	Dilution	Date Analyzed	Analyst	Method
	Result	RL	Result	RL					
Volatile Organic Compounds by EPA TO-15									
Sample ID: PUJ1542-04 (SVMW-1-190-200)			Sampling Time: min			Sampled: 10/25/11 10:42			
1,1,1-Trichloroethane	<0.50	0.50	<2.7	2.7		1.0	10/29/2011	LC	EPA TO15
1,1,2,2-Tetrachloroethane	<0.50	0.50	<3.4	3.4		1.0	10/29/2011	LC	EPA TO15
1,1,2-Trichloroethane	<0.50	0.50	<2.7	2.7		1.0	10/29/2011	LC	EPA TO15
1,1-Dichloroethane	<0.50	0.50	<2.0	2.0		1.0	10/29/2011	LC	EPA TO15
1,2,4-Trichlorobenzene	<2.0	2.0	<15	15	N1	1.0	10/29/2011	LC	EPA TO15
1,2,4-Trimethylbenzene	<0.50	0.50	<2.5	2.5		1.0	10/29/2011	LC	EPA TO15
1,2-Dibromoethane (EDB)	<1.0	1.0	<7.7	7.7		1.0	10/29/2011	LC	EPA TO15
1,2-Dichlorobenzene	<0.50	0.50	<3.0	3.0		1.0	10/29/2011	LC	EPA TO15
1,2-Dichloroethane	<0.50	0.50	<2.0	2.0		1.0	10/29/2011	LC	EPA TO15
1,2-Dichloropropane	<0.50	0.50	<2.3	2.3		1.0	10/29/2011	LC	EPA TO15
1,3,5-Trimethylbenzene	<0.50	0.50	<2.5	2.5		1.0	10/29/2011	LC	EPA TO15
1,3-Butadiene	<0.50	0.50	<1.1	1.1		1.0	10/29/2011	LC	EPA TO15
1,3-Dichlorobenzene	<0.50	0.50	<3.0	3.0		1.0	10/29/2011	LC	EPA TO15
1,4-Dichlorobenzene	<0.50	0.50	<3.0	3.0		1.0	10/29/2011	LC	EPA TO15
2,2,4-Trimethylpentane	<0.50	0.50	<2.3	2.3		1.0	10/29/2011	LC	EPA TO15
2-Hexanone	7.3	1.0	30	4.1		1.0	10/29/2011	LC	EPA TO15
2-Propanol	<2.0	2.0	<4.9	4.9		1.0	10/29/2011	LC	EPA TO15
4-Ethyltoluene	<0.50	0.50	<2.5	2.5		1.0	10/29/2011	LC	EPA TO15
4-Methyl-2-pentanone (MIBK)	<1.0	1.0	<4.1	4.1		1.0	10/29/2011	LC	EPA TO15
Allyl Chloride	<0.50	0.50	<1.6	1.6		1.0	10/29/2011	LC	EPA TO15
Benzene	0.90	0.50	2.9	1.6		1.0	10/29/2011	LC	EPA TO15
Benzyl Chloride	<2.0	2.0	<10	10		1.0	10/29/2011	LC	EPA TO15
Bromodichloromethane	<0.50	0.50	<3.4	3.4		1.0	10/29/2011	LC	EPA TO15
Bromoethene(Vinyl Bromide)	<0.50	0.50	<2.2	2.2		1.0	10/29/2011	LC	EPA TO15
Bromoform	<0.50	0.50	<5.2	5.2		1.0	10/29/2011	LC	EPA TO15
Bromomethane	<0.50	0.50	<1.9	1.9		1.0	10/29/2011	LC	EPA TO15
Carbon disulfide	0.51	0.50	1.6	1.6		1.0	10/29/2011	LC	EPA TO15
Carbon tetrachloride	<0.50	0.50	<3.1	3.1		1.0	10/29/2011	LC	EPA TO15
Chlorobenzene	<0.50	0.50	<2.3	2.3		1.0	10/29/2011	LC	EPA TO15
Chloroethane	<0.50	0.50	<1.3	1.3		1.0	10/29/2011	LC	EPA TO15
Chloroform	<0.50	0.50	<2.4	2.4		1.0	10/29/2011	LC	EPA TO15
Chloromethane	0.73	0.50	1.5	1.0		1.0	10/29/2011	LC	EPA TO15
cis-1,2-Dichloroethene	<0.50	0.50	<2.0	2.0		1.0	10/29/2011	LC	EPA TO15
cis-1,3-Dichloropropene	<0.50	0.50	<2.3	2.3		1.0	10/29/2011	LC	EPA TO15
Cyclohexane	<0.50	0.50	<1.7	1.7		1.0	10/29/2011	LC	EPA TO15
Dibromochloromethane	<0.50	0.50	<4.3	4.3		1.0	10/29/2011	LC	EPA TO15
Dichlorodifluoromethane	0.60	0.50	3.0	2.5		1.0	10/29/2011	LC	EPA TO15
Dichlorotetrafluoroethane(F-114)	<0.50	0.50	<3.5	3.5		1.0	10/29/2011	LC	EPA TO15
Ethyl Acetate	<0.50	0.50	<1.8	1.8		1.0	10/29/2011	LC	EPA TO15
Ethylbenzene	<0.50	0.50	<2.2	2.2		1.0	10/29/2011	LC	EPA TO15
Freon 113	<0.50	0.50	<3.8	3.8		1.0	10/29/2011	LC	EPA TO15
Heptane	<0.50	0.50	<2.0	2.0		1.0	10/29/2011	LC	EPA TO15
Hexachlorobutadiene	<1.0	1.0	<11	11	N1	1.0	10/29/2011	LC	EPA TO15
Hexane	1.2	0.50	4.2	1.8		1.0	10/29/2011	LC	EPA TO15
Isopropylbenzene	<0.50	0.50	<2.5	2.5		1.0	10/29/2011	LC	EPA TO15

ARCADIS U.S., Inc. - Phoenix
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Work Order: PUJ1542
 Project: UPCO-3994018
 Project Number: UPCO 3994018

Received: 10/25/11
 Reported: 11/09/11 08:00

	<u>ppbv</u>		<u>ug/m3</u>		Data Qualifiers	Dilution	Date Analyzed	Analyst	Method
	Result	RL	Result	RL					
Volatile Organic Compounds by EPA TO-15									
Sample ID: PUJ1542-04 (SVMW-1-190-200) - cont.					Sampling Time: min		Sampled: 10/25/11 10:42		
m,p-Xylenes	<1.0	1.0	<4.3	4.3		1.0	10/29/2011	LC	EPA TO15
Methylene Chloride	<0.50	0.50	<1.7	1.7		1.0	10/29/2011	LC	EPA TO15
Methyl-tert-butyl Ether (MTBE)	<1.0	1.0	<3.6	3.6		1.0	10/29/2011	LC	EPA TO15
Naphthalene	<5.0	5.0	<26	26		1.0	10/29/2011	LC	EPA TO15
n-Butylbenzene	<0.50	0.50	<2.7	2.7		1.0	10/29/2011	LC	EPA TO15
n-Nonane (C9)	<0.50	0.50	<2.6	2.6		1.0	10/29/2011	LC	EPA TO15
n-Octane (C8)	<0.50	0.50	<2.3	2.3		1.0	10/29/2011	LC	EPA TO15
n-Propylbenzene	<0.50	0.50	<2.5	2.5		1.0	10/29/2011	LC	EPA TO15
o-Xylene	<0.50	0.50	<2.2	2.2		1.0	10/29/2011	LC	EPA TO15
Propene	<0.50	0.50	<0.86	0.86		1.0	10/29/2011	LC	EPA TO15
sec-Butylbenzene	<0.50	0.50	<2.7	2.7		1.0	10/29/2011	LC	EPA TO15
Styrene	<0.50	0.50	<2.1	2.1		1.0	10/29/2011	LC	EPA TO15
tert-Butylbenzene	<0.50	0.50	<2.7	2.7		1.0	10/29/2011	LC	EPA TO15
Tetrachloroethene	4.8	0.50	33	3.4		1.0	10/29/2011	LC	EPA TO15
Tetrahydrofuran	<2.0	2.0	<5.9	5.9		1.0	10/29/2011	LC	EPA TO15
Toluene	<0.50	0.50	<1.9	1.9		1.0	10/29/2011	LC	EPA TO15
trans-1,2-Dichloroethene	<0.50	0.50	<2.0	2.0		1.0	10/29/2011	LC	EPA TO15
trans-1,3-Dichloropropene	<0.50	0.50	<2.3	2.3		1.0	10/29/2011	LC	EPA TO15
Trichloroethene	0.85	0.50	4.6	2.7		1.0	10/29/2011	LC	EPA TO15
Trichlorofluoromethane	<0.50	0.50	<2.8	2.8		1.0	10/29/2011	LC	EPA TO15
Vinyl Acetate	<0.50	0.50	<1.8	1.8		1.0	10/29/2011	LC	EPA TO15
Vinyl chloride	<0.50	0.50	<1.3	1.3		1.0	10/29/2011	LC	EPA TO15
Surrogate: 4-Bromofluorobenzene	90 %		Limit 70-130						

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Received: 10/25/11
 Reported: 11/09/11 08:00

	<u>ppbv</u>		<u>ug/m3</u>		Data Qualifiers	Dilution	Date Analyzed	Analyst	Method
	Result	RL	Result	RL					
Volatile Organic Compounds by EPA TO-15									
Sample ID: PUJ1542-04RE1 (SVMW-1-190-200)					Sampling Time: min		Sampled: 10/25/11 10:42		
1,1-Dichloroethene	530	9.7	2100	38		19	10/29/2011	LC	EPA TO15
2-Butanone (MEK)	33	19	97	56		19	10/29/2011	LC	EPA TO15
Acetone	120	97	290	230		19	10/29/2011	LC	EPA TO15
Surrogate: 4-Bromofluorobenzene	91 %		Limit 70-130						

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Received: 10/25/11
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PROJECT QUALITY CONTROL DATA

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Analyte	Blank Value	RL	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Volatile Organic Compounds by EPA TO-15							
11J1128-BLK1							
1,1,1-Trichloroethane	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
1,1,2,2-Tetrachloroethane	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
1,1,2-Trichloroethane	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
1,1-Dichloroethane	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
1,1-Dichloroethene	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
1,2,4-Trichlorobenzene	<2.0	2.0		ppbv	11J1128	11J1128-BLK1	10-28-2011
1,2,4-Trimethylbenzene	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
1,2-Dibromoethane (EDB)	<1.0	1.0		ppbv	11J1128	11J1128-BLK1	10-28-2011
1,2-Dichlorobenzene	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
1,2-Dichloroethane	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
1,2-Dichloropropane	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
1,3,5-Trimethylbenzene	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
1,3-Butadiene	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
1,3-Dichlorobenzene	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
1,4-Dichlorobenzene	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
2,2,4-Trimethylpentane	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
2-Butanone (MEK)	<1.0	1.0		ppbv	11J1128	11J1128-BLK1	10-28-2011
2-Hexanone	<1.0	1.0		ppbv	11J1128	11J1128-BLK1	10-28-2011
2-Propanol	<2.0	2.0		ppbv	11J1128	11J1128-BLK1	10-28-2011
4-Ethyltoluene	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
4-Methyl-2-pentanone (MIBK)	<1.0	1.0		ppbv	11J1128	11J1128-BLK1	10-28-2011
Acetone	<5.0	5.0		ppbv	11J1128	11J1128-BLK1	10-28-2011
Allyl Chloride	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
Benzene	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
Benzyl Chloride	<2.0	2.0		ppbv	11J1128	11J1128-BLK1	10-28-2011
Bromodichloromethane	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
Bromoethene(Vinyl Bromide)	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
Bromoform	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
Bromomethane	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
Carbon disulfide	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
Carbon tetrachloride	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
Chlorobenzene	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
Chloroethane	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
Chloroform	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
Chloromethane	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
cis-1,2-Dichloroethene	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
cis-1,3-Dichloropropene	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
Cyclohexane	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
Dibromochloromethane	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011

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Received: 10/25/11
 Reported: 11/09/11 08:00

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Analyte	Blank Value	RL	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Volatile Organic Compounds by EPA TO-15							
11J1128-BLK1							
Dichlorodifluoromethane	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
Dichlorotetrafluoroethane(F-114)	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
Ethyl Acetate	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
Ethylbenzene	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
Freon 113	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
Heptane	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
Hexachlorobutadiene	<1.0	1.0		ppbv	11J1128	11J1128-BLK1	10-28-2011
Hexane	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
Isopropylbenzene	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
m,p-Xylenes	<1.0	1.0		ppbv	11J1128	11J1128-BLK1	10-28-2011
Methylene Chloride	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
Methyl-tert-butyl Ether (MTBE)	<1.0	1.0		ppbv	11J1128	11J1128-BLK1	10-28-2011
Naphthalene	<5.0	5.0		ppbv	11J1128	11J1128-BLK1	10-28-2011
n-Butylbenzene	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
n-Nonane (C9)	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
n-Octane (C8)	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
n-Propylbenzene	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
o-Xylene	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
Propene	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
sec-Butylbenzene	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
Styrene	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
tert-Butylbenzene	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
Tetrachloroethene	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
Tetrahydrofuran	<2.0	2.0		ppbv	11J1128	11J1128-BLK1	10-28-2011
Toluene	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
trans-1,2-Dichloroethene	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
trans-1,3-Dichloropropene	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
Trichloroethene	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
Trichlorofluoromethane	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
Vinyl Acetate	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
Vinyl chloride	<0.50	0.50		ppbv	11J1128	11J1128-BLK1	10-28-2011
Surrogate: 4-Bromofluorobenzene	88%				11J1128	11J1128-BLK1	10-28-2011
11K0185-BLK1							
1,1,1-Trichloroethane	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
1,1,2,2-Tetrachloroethane	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
1,1,2-Trichloroethane	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
1,1-Dichloroethane	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
1,1-Dichloroethene	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
1,2,4-Trichlorobenzene	<2.0	2.0		ppbv	11K0185	11K0185-BLK1	11-04-2011
1,2,4-Trimethylbenzene	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011

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Received: 10/25/11
 Reported: 11/09/11 08:00

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Analyte	Blank Value	RL	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Volatile Organic Compounds by EPA TO-15							
11K0185-BLK1							
1,2-Dibromoethane (EDB)	<1.0	1.0		ppbv	11K0185	11K0185-BLK1	11-04-2011
1,2-Dichlorobenzene	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
1,2-Dichloroethane	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
1,2-Dichloropropane	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
1,3,5-Trimethylbenzene	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
1,3-Butadiene	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
1,3-Dichlorobenzene	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
1,4-Dichlorobenzene	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
2,2,4-Trimethylpentane	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
2-Butanone (MEK)	<1.0	1.0		ppbv	11K0185	11K0185-BLK1	11-04-2011
2-Hexanone	<1.0	1.0		ppbv	11K0185	11K0185-BLK1	11-04-2011
2-Propanol	<2.0	2.0		ppbv	11K0185	11K0185-BLK1	11-04-2011
4-Ethyltoluene	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
4-Methyl-2-pentanone (MIBK)	<1.0	1.0		ppbv	11K0185	11K0185-BLK1	11-04-2011
Acetone	<5.0	5.0		ppbv	11K0185	11K0185-BLK1	11-04-2011
Allyl Chloride	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
Benzene	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
Benzyl Chloride	<2.0	2.0		ppbv	11K0185	11K0185-BLK1	11-04-2011
Bromodichloromethane	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
Bromoethene(Vinyl Bromide)	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
Bromoform	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
Bromomethane	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
Carbon disulfide	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
Carbon tetrachloride	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
Chlorobenzene	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
Chloroethane	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
Chloroform	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
Chloromethane	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
cis-1,2-Dichloroethene	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
cis-1,3-Dichloropropene	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
Cyclohexane	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
Dibromochloromethane	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
Dichlorodifluoromethane	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
Dichlorotetrafluoroethane(F-114)	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
Ethyl Acetate	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
Ethylbenzene	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
Freon 113	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
Heptane	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
Hexachlorobutadiene	<1.0	1.0		ppbv	11K0185	11K0185-BLK1	11-04-2011
Hexane	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
Isopropylbenzene	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011

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Received: 10/25/11
Reported: 11/09/11 08:00

Blank - Cont.

Analyte	Blank Value	RL	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Volatile Organic Compounds by EPA TO-15							
11K0185-BLK1							
m,p-Xylenes	<1.0	1.0		ppbv	11K0185	11K0185-BLK1	11-04-2011
Methylene Chloride	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
Methyl-tert-butyl Ether (MTBE)	<1.0	1.0		ppbv	11K0185	11K0185-BLK1	11-04-2011
Naphthalene	<5.0	5.0		ppbv	11K0185	11K0185-BLK1	11-04-2011
n-Butylbenzene	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
n-Nonane (C9)	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
n-Octane (C8)	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
n-Propylbenzene	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
o-Xylene	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
Propene	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
sec-Butylbenzene	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
Styrene	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
tert-Butylbenzene	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
Tetrachloroethene	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
Tetrahydrofuran	<2.0	2.0		ppbv	11K0185	11K0185-BLK1	11-04-2011
Toluene	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
trans-1,2-Dichloroethene	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
trans-1,3-Dichloropropene	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
Trichloroethene	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
Trichlorofluoromethane	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
Vinyl Acetate	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
Vinyl chloride	<0.50	0.50		ppbv	11K0185	11K0185-BLK1	11-04-2011
Surrogate: 4-Bromofluorobenzene	92%				11K0185	11K0185-BLK1	11-04-2011

LCS

Analyte	Result	RL	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Volatile Organic Compounds by EPA TO-15								
11J1128-BS1								
1,1,1-Trichloroethane	10.0	0.50		ppbv	100%	70 - 130	11J1128	10-28-2011
1,1,2,2-Tetrachloroethane	9.15	0.50		ppbv	92%	70 - 130	11J1128	10-28-2011
1,1,2-Trichloroethane	10.9	0.50		ppbv	109%	70 - 130	11J1128	10-28-2011
1,1-Dichloroethane	9.90	0.50		ppbv	99%	70 - 130	11J1128	10-28-2011
1,1-Dichloroethene	9.80	0.50		ppbv	98%	70 - 130	11J1128	10-28-2011
1,2,4-Trichlorobenzene	8.20	2.00		ppbv	82%	70 - 130	11J1128	10-28-2011
1,2,4-Trimethylbenzene	9.28	0.50		ppbv	93%	70 - 130	11J1128	10-28-2011
1,2-Dibromoethane (EDB)	10.8	1.00		ppbv	108%	70 - 130	11J1128	10-28-2011
1,2-Dichlorobenzene	9.28	0.50		ppbv	93%	70 - 130	11J1128	10-28-2011
1,2-Dichloroethane	9.11	0.50		ppbv	91%	70 - 130	11J1128	10-28-2011
1,2-Dichloropropane	10.2	0.50		ppbv	102%	70 - 130	11J1128	10-28-2011

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Received: 10/25/11
Reported: 11/09/11 08:00

LCS - Cont.

Analyte	Result	RL	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Volatile Organic Compounds by EPA TO-15								
11J1128-BS1								
1,3,5-Trimethylbenzene	9.32	0.50		ppbv	93%	70 - 130	11J1128	10-28-2011
1,3-Butadiene	8.89	0.50		ppbv	89%	70 - 130	11J1128	10-28-2011
1,3-Dichlorobenzene	11.5	0.50		ppbv	115%	70 - 130	11J1128	10-28-2011
1,4-Dichlorobenzene	11.1	0.50		ppbv	111%	70 - 130	11J1128	10-28-2011
2,2,4-Trimethylpentane	10.0	0.50		ppbv	100%	70 - 130	11J1128	10-28-2011
2-Butanone (MEK)	8.52	1.00		ppbv	85%	70 - 130	11J1128	10-28-2011
2-Hexanone	8.24	1.00		ppbv	82%	70 - 130	11J1128	10-28-2011
2-Propanol	9.00	2.00		ppbv	90%	70 - 130	11J1128	10-28-2011
4-Ethyltoluene	9.35	0.50		ppbv	94%	70 - 130	11J1128	10-28-2011
4-Methyl-2-pentanone (MIBK)	8.24	1.00		ppbv	82%	70 - 130	11J1128	10-28-2011
Acetone	9.07	5.00		ppbv	91%	70 - 130	11J1128	10-28-2011
Allyl Chloride	8.29	0.50		ppbv	83%	70 - 130	11J1128	10-28-2011
Benzene	9.46	0.50		ppbv	95%	70 - 130	11J1128	10-28-2011
Benzyl Chloride	9.92	2.00		ppbv	99%	70 - 130	11J1128	10-28-2011
Bromodichloromethane	10.6	0.50		ppbv	106%	70 - 130	11J1128	10-28-2011
Bromoethene(Vinyl Bromide)	10.7	0.50		ppbv	107%	70 - 130	11J1128	10-28-2011
Bromoform	11.8	0.50		ppbv	118%	70 - 130	11J1128	10-28-2011
Bromomethane	8.55	0.50		ppbv	86%	70 - 130	11J1128	10-28-2011
Carbon disulfide	10.6	0.50		ppbv	106%	70 - 130	11J1128	10-28-2011
Carbon tetrachloride	10.6	0.50		ppbv	106%	70 - 130	11J1128	10-28-2011
Chlorobenzene	11.2	0.50		ppbv	112%	70 - 130	11J1128	10-28-2011
Chloroethane	8.12	0.50		ppbv	81%	70 - 130	11J1128	10-28-2011
Chloroform	10.1	0.50		ppbv	101%	70 - 130	11J1128	10-28-2011
Chloromethane	7.80	0.50		ppbv	78%	70 - 130	11J1128	10-28-2011
cis-1,2-Dichloroethene	10.3	0.50		ppbv	103%	70 - 130	11J1128	10-28-2011
cis-1,3-Dichloropropene	10.2	0.50		ppbv	102%	70 - 130	11J1128	10-28-2011
Cyclohexane	9.76	0.50		ppbv	98%	70 - 130	11J1128	10-28-2011
Dibromochloromethane	10.9	0.50		ppbv	109%	70 - 130	11J1128	10-28-2011
Dichlorodifluoromethane	8.56	0.50		ppbv	86%	70 - 130	11J1128	10-28-2011
Dichlorotetrafluoroethane(F-114)	10.4	0.50		ppbv	104%	70 - 130	11J1128	10-28-2011
Ethyl Acetate	7.88	0.50		ppbv	79%	70 - 130	11J1128	10-28-2011
Ethylbenzene	9.16	0.50		ppbv	92%	70 - 130	11J1128	10-28-2011
Freon 113	10.7	0.50		ppbv	107%	70 - 130	11J1128	10-28-2011
Heptane	9.64	0.50		ppbv	96%	70 - 130	11J1128	10-28-2011
Hexachlorobutadiene	9.56	1.00		ppbv	96%	70 - 130	11J1128	10-28-2011
Hexane	9.67	0.50		ppbv	97%	70 - 130	11J1128	10-28-2011
Isopropylbenzene	9.48	0.50		ppbv	95%	70 - 130	11J1128	10-28-2011
m,p-Xylenes	20.8	1.00		ppbv	104%	70 - 130	11J1128	10-28-2011

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Reported: 11/09/11 08:00

LCS - Cont.

Analyte	Result	RL	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Volatile Organic Compounds by EPA TO-15								
11J1128-BS1								
Methylene Chloride	9.67	0.50		ppbv	97%	70 - 130	11J1128	10-28-2011
Methyl-tert-butyl Ether (MTBE)	9.88	1.00		ppbv	99%	70 - 130	11J1128	10-28-2011
Naphthalene	7.74	5.00		ppbv	77%	70 - 130	11J1128	10-28-2011
n-Butylbenzene	9.10	0.50		ppbv	91%	70 - 130	11J1128	10-28-2011
n-Nonane (C9)	8.93	0.50		ppbv	89%	70 - 130	11J1128	10-28-2011
n-Octane (C8)	8.72	0.50		ppbv	87%	70 - 130	11J1128	10-28-2011
n-Propylbenzene	9.51	0.50		ppbv	95%	70 - 130	11J1128	10-28-2011
o-Xylene	11.4	0.50		ppbv	114%	70 - 130	11J1128	10-28-2011
Propene	7.48	0.50		ppbv	75%	70 - 130	11J1128	10-28-2011
sec-Butylbenzene	9.38	0.50		ppbv	94%	70 - 130	11J1128	10-28-2011
Styrene	9.21	0.50		ppbv	92%	70 - 130	11J1128	10-28-2011
tert-Butylbenzene	9.60	0.50		ppbv	96%	70 - 130	11J1128	10-28-2011
Tetrachloroethene	11.5	0.50		ppbv	115%	70 - 130	11J1128	10-28-2011
Tetrahydrofuran	7.84	2.00		ppbv	78%	70 - 130	11J1128	10-28-2011
Toluene	10.7	0.50		ppbv	107%	70 - 130	11J1128	10-28-2011
trans-1,2-Dichloroethene	10.7	0.50		ppbv	107%	70 - 130	11J1128	10-28-2011
trans-1,3-Dichloropropene	9.94	0.50		ppbv	99%	70 - 130	11J1128	10-28-2011
Trichloroethene	11.9	0.50		ppbv	119%	70 - 130	11J1128	10-28-2011
Trichlorofluoromethane	10.8	0.50		ppbv	108%	70 - 130	11J1128	10-28-2011
Vinyl Acetate	9.24	0.50		ppbv	92%	70 - 130	11J1128	10-28-2011
Vinyl chloride	8.00	0.50		ppbv	80%	70 - 130	11J1128	10-28-2011
<i>Surrogate: 4-Bromofluorobenzene</i>	9.96	0.50			100%	70 - 130	11J1128	10-28-2011
11K0185-BS1								
1,1,1-Trichloroethane	8.21	0.50		ppbv	82%	70 - 130	11K0185	11-04-2011
1,1,2,2-Tetrachloroethane	7.89	0.50		ppbv	79%	70 - 130	11K0185	11-04-2011
1,1,2-Trichloroethane	8.40	0.50		ppbv	84%	70 - 130	11K0185	11-04-2011
1,1-Dichloroethane	8.29	0.50		ppbv	83%	70 - 130	11K0185	11-04-2011
1,1-Dichloroethene	8.11	0.50		ppbv	81%	70 - 130	11K0185	11-04-2011
1,2,4-Trichlorobenzene	8.96	2.00		ppbv	90%	70 - 130	11K0185	11-04-2011
1,2,4-Trimethylbenzene	8.33	0.50		ppbv	83%	70 - 130	11K0185	11-04-2011
1,2-Dibromoethane (EDB)	8.50	1.00		ppbv	85%	70 - 130	11K0185	11-04-2011
1,2-Dichlorobenzene	7.79	0.50		ppbv	78%	70 - 130	11K0185	11-04-2011
1,2-Dichloroethane	8.44	0.50		ppbv	84%	70 - 130	11K0185	11-04-2011
1,2-Dichloropropane	8.55	0.50		ppbv	86%	70 - 130	11K0185	11-04-2011
1,3,5-Trimethylbenzene	8.13	0.50		ppbv	81%	70 - 130	11K0185	11-04-2011
1,3-Butadiene	8.08	0.50		ppbv	81%	70 - 130	11K0185	11-04-2011
1,3-Dichlorobenzene	8.04	0.50		ppbv	80%	70 - 130	11K0185	11-04-2011
1,4-Dichlorobenzene	7.98	0.50		ppbv	80%	70 - 130	11K0185	11-04-2011

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 Reported: 11/09/11 08:00

LCS - Cont.

Analyte	Result	RL	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Volatile Organic Compounds by EPA TO-15								
11K0185-BS1								
2,2,4-Trimethylpentane	9.23	0.50		ppbv	92%	70 - 130	11K0185	11-04-2011
2-Butanone (MEK)	8.26	1.00		ppbv	83%	70 - 130	11K0185	11-04-2011
2-Hexanone	9.62	1.00		ppbv	96%	70 - 130	11K0185	11-04-2011
2-Propanol	8.34	2.00		ppbv	83%	70 - 130	11K0185	11-04-2011
4-Ethyltoluene	8.45	0.50		ppbv	84%	70 - 130	11K0185	11-04-2011
4-Methyl-2-pentanone (MIBK)	8.86	1.00		ppbv	89%	70 - 130	11K0185	11-04-2011
Acetone	8.73	5.00		ppbv	87%	70 - 130	11K0185	11-04-2011
Allyl Chloride	9.03	0.50		ppbv	90%	70 - 130	11K0185	11-04-2011
Benzene	8.42	0.50		ppbv	84%	70 - 130	11K0185	11-04-2011
Benzyl Chloride	8.45	2.00		ppbv	84%	70 - 130	11K0185	11-04-2011
Bromodichloromethane	8.52	0.50		ppbv	85%	70 - 130	11K0185	11-04-2011
Bromoethene(Vinyl Bromide)	8.52	0.50		ppbv	85%	70 - 130	11K0185	11-04-2011
Bromoform	8.43	0.50		ppbv	84%	70 - 130	11K0185	11-04-2011
Bromomethane	7.98	0.50		ppbv	80%	70 - 130	11K0185	11-04-2011
Carbon disulfide	10.1	0.50		ppbv	101%	70 - 130	11K0185	11-04-2011
Carbon tetrachloride	8.11	0.50		ppbv	81%	70 - 130	11K0185	11-04-2011
Chlorobenzene	8.31	0.50		ppbv	83%	70 - 130	11K0185	11-04-2011
Chloroethane	8.13	0.50		ppbv	81%	70 - 130	11K0185	11-04-2011
Chloroform	8.17	0.50		ppbv	82%	70 - 130	11K0185	11-04-2011
Chloromethane	10.4	0.50		ppbv	104%	70 - 130	11K0185	11-04-2011
cis-1,2-Dichloroethene	8.31	0.50		ppbv	83%	70 - 130	11K0185	11-04-2011
cis-1,3-Dichloropropene	8.66	0.50		ppbv	87%	70 - 130	11K0185	11-04-2011
Cyclohexane	8.19	0.50		ppbv	82%	70 - 130	11K0185	11-04-2011
Dibromochloromethane	8.51	0.50		ppbv	85%	70 - 130	11K0185	11-04-2011
Dichlorodifluoromethane	8.56	0.50		ppbv	86%	70 - 130	11K0185	11-04-2011
Dichlorotetrafluoroethane(F-114)	10.2	0.50		ppbv	102%	70 - 130	11K0185	11-04-2011
Ethyl Acetate	8.27	0.50		ppbv	83%	70 - 130	11K0185	11-04-2011
Ethylbenzene	8.39	0.50		ppbv	84%	70 - 130	11K0185	11-04-2011
Freon 113	7.96	0.50		ppbv	80%	70 - 130	11K0185	11-04-2011
Heptane	8.51	0.50		ppbv	85%	70 - 130	11K0185	11-04-2011
Hexachlorobutadiene	8.99	1.00		ppbv	90%	70 - 130	11K0185	11-04-2011
Hexane	8.11	0.50		ppbv	81%	70 - 130	11K0185	11-04-2011
Isopropylbenzene	10.5	0.50		ppbv	105%	70 - 130	11K0185	11-04-2011
m,p-Xylenes	20.6	1.00		ppbv	103%	70 - 130	11K0185	11-04-2011
Methylene Chloride	10.1	0.50		ppbv	101%	70 - 130	11K0185	11-04-2011
Methyl-tert-butyl Ether (MTBE)	8.27	1.00		ppbv	83%	70 - 130	11K0185	11-04-2011
Naphthalene	8.77	5.00		ppbv	88%	70 - 130	11K0185	11-04-2011
n-Butylbenzene	9.68	0.50		ppbv	97%	70 - 130	11K0185	11-04-2011

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LCS - Cont.

Analyte	Result	RL	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Volatile Organic Compounds by EPA TO-15								
11K0185-BS1								
n-Nonane (C9)	10.3	0.50		ppbv	103%	70 - 130	11K0185	11-04-2011
n-Octane (C8)	9.80	0.50		ppbv	98%	70 - 130	11K0185	11-04-2011
n-Propylbenzene	10.3	0.50		ppbv	103%	70 - 130	11K0185	11-04-2011
o-Xylene	8.15	0.50		ppbv	82%	70 - 130	11K0185	11-04-2011
Propene	11.3	0.50		ppbv	113%	70 - 130	11K0185	11-04-2011
sec-Butylbenzene	10.0	0.50		ppbv	100%	70 - 130	11K0185	11-04-2011
Styrene	8.39	0.50		ppbv	84%	70 - 130	11K0185	11-04-2011
tert-Butylbenzene	10.1	0.50		ppbv	101%	70 - 130	11K0185	11-04-2011
Tetrachloroethene	8.25	0.50		ppbv	82%	70 - 130	11K0185	11-04-2011
Tetrahydrofuran	8.32	2.00		ppbv	83%	70 - 130	11K0185	11-04-2011
Toluene	8.42	0.50		ppbv	84%	70 - 130	11K0185	11-04-2011
trans-1,2-Dichloroethene	8.07	0.50		ppbv	81%	70 - 130	11K0185	11-04-2011
trans-1,3-Dichloropropene	8.71	0.50		ppbv	87%	70 - 130	11K0185	11-04-2011
Trichloroethene	11.0	0.50		ppbv	110%	70 - 130	11K0185	11-04-2011
Trichlorofluoromethane	7.86	0.50		ppbv	79%	70 - 130	11K0185	11-04-2011
Vinyl Acetate	8.46	0.50		ppbv	85%	70 - 130	11K0185	11-04-2011
Vinyl chloride	8.15	0.50		ppbv	82%	70 - 130	11K0185	11-04-2011
Surrogate: 4-Bromofluorobenzene	9.73	0.50			97%	70 - 130	11K0185	11-04-2011

LCS Dup

Analyte	Result	RL	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Volatile Organic Compounds by EPA TO-15												
11J1128-BS1												
1,1,1-Trichloroethane	9.79	0.50		ppbv	10.0	98%	70 - 130	3	25	11J1128		10-28-2011
1,1,2,2-Tetrachloroethane	8.80	0.50		ppbv	10.0	88%	70 - 130	4	25	11J1128		10-28-2011
1,1,2-Trichloroethane	10.6	0.50		ppbv	10.0	106%	70 - 130	3	25	11J1128		10-28-2011
1,1-Dichloroethane	9.56	0.50		ppbv	10.0	96%	70 - 130	3	25	11J1128		10-28-2011
1,1-Dichloroethene	9.43	0.50		ppbv	10.0	94%	70 - 130	4	25	11J1128		10-28-2011
1,2,4-Trichlorobenzene	7.65	2.00		ppbv	10.0	76%	70 - 130	7	25	11J1128		10-28-2011
1,2,4-Trimethylbenzene	8.88	0.50		ppbv	10.0	89%	70 - 130	4	25	11J1128		10-28-2011
1,2-Dibromoethane (EDB)	10.6	1.00		ppbv	10.0	106%	70 - 130	2	25	11J1128		10-28-2011
1,2-Dichlorobenzene	8.86	0.50		ppbv	10.0	89%	70 - 130	5	25	11J1128		10-28-2011
1,2-Dichloroethane	8.80	0.50		ppbv	10.0	88%	70 - 130	3	25	11J1128		10-28-2011
1,2-Dichloropropane	9.77	0.50		ppbv	10.0	98%	70 - 130	4	25	11J1128		10-28-2011
1,3,5-Trimethylbenzene	9.02	0.50		ppbv	10.0	90%	70 - 130	3	25	11J1128		10-28-2011
1,3-Butadiene	8.51	0.50		ppbv	10.0	85%	70 - 130	4	25	11J1128		10-28-2011
1,3-Dichlorobenzene	10.9	0.50		ppbv	10.0	109%	70 - 130	5	25	11J1128		10-28-2011
1,4-Dichlorobenzene	10.6	0.50		ppbv	10.0	106%	70 - 130	5	25	11J1128		10-28-2011

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LCS Dup - Cont.

Analyte	Result	RL	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Volatile Organic Compounds by EPA TO-15												
11J1128-BSD1												
2,2,4-Trimethylpentane	9.79	0.50		ppbv	10.0	98%	70 - 130	3	25	11J1128		10-28-2011
2-Butanone (MEK)	8.34	1.00		ppbv	10.0	83%	70 - 130	2	25	11J1128		10-28-2011
2-Hexanone	7.99	1.00		ppbv	10.0	80%	70 - 130	3	25	11J1128		10-28-2011
2-Propanol	8.53	2.00		ppbv	10.0	85%	70 - 130	5	25	11J1128		10-28-2011
4-Ethyltoluene	9.01	0.50		ppbv	10.0	90%	70 - 130	4	25	11J1128		10-28-2011
4-Methyl-2-pentanone (MIBK)	8.06	1.00		ppbv	10.0	81%	70 - 130	2	25	11J1128		10-28-2011
Acetone	8.55	5.00		ppbv	10.0	86%	70 - 130	6	25	11J1128		10-28-2011
Allyl Chloride	8.05	0.50		ppbv	10.0	80%	70 - 130	3	25	11J1128		10-28-2011
Benzene	9.06	0.50		ppbv	10.0	91%	70 - 130	4	25	11J1128		10-28-2011
Benzyl Chloride	9.31	2.00		ppbv	10.0	93%	70 - 130	6	25	11J1128		10-28-2011
Bromodichloromethane	10.1	0.50		ppbv	10.0	101%	70 - 130	4	25	11J1128		10-28-2011
Bromoethene(Vinyl Bromide)	10.0	0.50		ppbv	10.0	100%	70 - 130	6	25	11J1128		10-28-2011
Bromoform	11.3	0.50		ppbv	10.0	113%	70 - 130	4	25	11J1128		10-28-2011
Bromomethane	8.15	0.50		ppbv	10.0	82%	70 - 130	5	25	11J1128		10-28-2011
Carbon disulfide	10.2	0.50		ppbv	10.0	102%	70 - 130	4	25	11J1128		10-28-2011
Carbon tetrachloride	10.2	0.50		ppbv	10.0	102%	70 - 130	4	25	11J1128		10-28-2011
Chlorobenzene	10.7	0.50		ppbv	10.0	107%	70 - 130	4	25	11J1128		10-28-2011
Chloroethane	7.58	0.50		ppbv	10.0	76%	70 - 130	7	25	11J1128		10-28-2011
Chloroform	9.79	0.50		ppbv	10.0	98%	70 - 130	3	25	11J1128		10-28-2011
Chloromethane	7.53	0.50		ppbv	10.0	75%	70 - 130	4	25	11J1128		10-28-2011
cis-1,2-Dichloroethene	9.86	0.50		ppbv	10.0	99%	70 - 130	5	25	11J1128		10-28-2011
cis-1,3-Dichloropropene	9.96	0.50		ppbv	10.0	100%	70 - 130	3	25	11J1128		10-28-2011
Cyclohexane	9.37	0.50		ppbv	10.0	94%	70 - 130	4	25	11J1128		10-28-2011
Dibromochloromethane	10.6	0.50		ppbv	10.0	106%	70 - 130	3	25	11J1128		10-28-2011
Dichlorodifluoromethane	8.26	0.50		ppbv	10.0	83%	70 - 130	4	25	11J1128		10-28-2011
Dichlorotetrafluoroethane(F-114)	10.0	0.50		ppbv	10.0	100%	70 - 130	4	25	11J1128		10-28-2011
Ethyl Acetate	7.73	0.50		ppbv	10.0	77%	70 - 130	2	25	11J1128		10-28-2011
Ethylbenzene	8.89	0.50		ppbv	10.0	89%	70 - 130	3	25	11J1128		10-28-2011
Freon 113	10.4	0.50		ppbv	10.0	104%	70 - 130	3	25	11J1128		10-28-2011
Heptane	9.23	0.50		ppbv	10.0	92%	70 - 130	4	25	11J1128		10-28-2011
Hexachlorobutadiene	9.11	1.00		ppbv	10.0	91%	70 - 130	5	25	11J1128		10-28-2011
Hexane	9.25	0.50		ppbv	10.0	92%	70 - 130	4	25	11J1128		10-28-2011
Isopropylbenzene	9.22	0.50		ppbv	10.0	92%	70 - 130	3	25	11J1128		10-28-2011
m,p-Xylenes	19.7	1.00		ppbv	20.0	98%	70 - 130	5	25	11J1128		10-28-2011
Methylene Chloride	9.35	0.50		ppbv	10.0	94%	70 - 130	3	25	11J1128		10-28-2011
Methyl-tert-butyl Ether (MTBE)	9.71	1.00		ppbv	10.0	97%	70 - 130	2	25	11J1128		10-28-2011
Naphthalene	7.36	5.00		ppbv	10.0	74%	70 - 130	5	25	11J1128		10-28-2011
n-Butylbenzene	8.51	0.50		ppbv	10.0	85%	70 - 130	7	25	11J1128		10-28-2011
n-Nonane (C9)	8.71	0.50		ppbv	10.0	87%	70 - 130	2	25	11J1128		10-28-2011
n-Octane (C8)	8.47	0.50		ppbv	10.0	85%	70 - 130	3	25	11J1128		10-28-2011
n-Propylbenzene	9.13	0.50		ppbv	10.0	91%	70 - 130	4	25	11J1128		10-28-2011

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Project: UPCO-3994018
Project Number: UPCO 3994018

Received: 10/25/11
Reported: 11/09/11 08:00

LCS Dup - Cont.

Analyte	Result	RL	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Volatile Organic Compounds by EPA TO-15												
11J1128-BSD1												
o-Xylene	11.1	0.50		ppbv	10.0	111%	70 - 130	3	25	11J1128		10-28-2011
Propene	7.18	0.50		ppbv	10.0	72%	70 - 130	4	25	11J1128		10-28-2011
sec-Butylbenzene	9.07	0.50		ppbv	10.0	91%	70 - 130	3	25	11J1128		10-28-2011
Styrene	8.94	0.50		ppbv	10.0	89%	70 - 130	3	25	11J1128		10-28-2011
tert-Butylbenzene	9.28	0.50		ppbv	10.0	93%	70 - 130	3	25	11J1128		10-28-2011
Tetrachloroethene	11.1	0.50		ppbv	10.0	111%	70 - 130	3	25	11J1128		10-28-2011
Tetrahydrofuran	7.59	2.00		ppbv	10.0	76%	70 - 130	3	25	11J1128		10-28-2011
Toluene	10.5	0.50		ppbv	10.0	105%	70 - 130	2	25	11J1128		10-28-2011
trans-1,2-Dichloroethene	10.3	0.50		ppbv	10.0	103%	70 - 130	3	25	11J1128		10-28-2011
trans-1,3-Dichloropropene	9.65	0.50		ppbv	10.0	96%	70 - 130	3	25	11J1128		10-28-2011
Trichloroethene	11.3	0.50		ppbv	10.0	113%	70 - 130	6	25	11J1128		10-28-2011
Trichlorofluoromethane	10.3	0.50		ppbv	10.0	103%	70 - 130	5	25	11J1128		10-28-2011
Vinyl Acetate	8.96	0.50		ppbv	10.0	90%	70 - 130	3	25	11J1128		10-28-2011
Vinyl chloride	7.72	0.50		ppbv	10.0	77%	70 - 130	4	25	11J1128		10-28-2011
Surrogate: 4-Bromofluorobenzene	9.89	0.50		ppbv	10.0	99%	70 - 130			11J1128		10-28-2011
11K0185-BSD1												
1,1,1-Trichloroethane	8.02	0.50		ppbv	10.0	80%	70 - 130	2	25	11K0185		11-04-2011
1,1,2,2-Tetrachloroethane	7.45	0.50		ppbv	10.0	74%	70 - 130	6	25	11K0185		11-04-2011
1,1,2-Trichloroethane	7.74	0.50		ppbv	10.0	77%	70 - 130	8	25	11K0185		11-04-2011
1,1-Dichloroethane	8.16	0.50		ppbv	10.0	82%	70 - 130	2	25	11K0185		11-04-2011
1,1-Dichloroethene	7.68	0.50		ppbv	10.0	77%	70 - 130	5	25	11K0185		11-04-2011
1,2,4-Trichlorobenzene	9.13	2.00		ppbv	10.0	91%	70 - 130	2	25	11K0185		11-04-2011
1,2,4-Trimethylbenzene	7.93	0.50		ppbv	10.0	79%	70 - 130	5	25	11K0185		11-04-2011
1,2-Dibromoethane (EDB)	7.86	1.00		ppbv	10.0	79%	70 - 130	8	25	11K0185		11-04-2011
1,2-Dichlorobenzene	7.45	0.50		ppbv	10.0	74%	70 - 130	4	25	11K0185		11-04-2011
1,2-Dichloroethane	8.38	0.50		ppbv	10.0	84%	70 - 130	0.7	25	11K0185		11-04-2011
1,2-Dichloropropane	7.95	0.50		ppbv	10.0	80%	70 - 130	7	25	11K0185		11-04-2011
1,3,5-Trimethylbenzene	7.76	0.50		ppbv	10.0	78%	70 - 130	5	25	11K0185		11-04-2011
1,3-Butadiene	7.52	0.50		ppbv	10.0	75%	70 - 130	7	25	11K0185		11-04-2011
1,3-Dichlorobenzene	7.73	0.50		ppbv	10.0	77%	70 - 130	4	25	11K0185		11-04-2011
1,4-Dichlorobenzene	7.66	0.50		ppbv	10.0	77%	70 - 130	4	25	11K0185		11-04-2011
2,2,4-Trimethylpentane	8.28	0.50		ppbv	10.0	83%	70 - 130	11	25	11K0185		11-04-2011
2-Butanone (MEK)	7.85	1.00		ppbv	10.0	78%	70 - 130	5	25	11K0185		11-04-2011
2-Hexanone	8.11	1.00		ppbv	10.0	81%	70 - 130	17	25	11K0185		11-04-2011
2-Propanol	8.02	2.00		ppbv	10.0	80%	70 - 130	4	25	11K0185		11-04-2011
4-Ethyltoluene	8.07	0.50		ppbv	10.0	81%	70 - 130	5	25	11K0185		11-04-2011
4-Methyl-2-pentanone (MIBK)	7.55	1.00		ppbv	10.0	76%	70 - 130	16	25	11K0185		11-04-2011
Acetone	8.33	5.00		ppbv	10.0	83%	70 - 130	5	25	11K0185		11-04-2011
Allyl Chloride	8.60	0.50		ppbv	10.0	86%	70 - 130	5	25	11K0185		11-04-2011
Benzene	8.56	0.50		ppbv	10.0	86%	70 - 130	2	25	11K0185		11-04-2011

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Received: 10/25/11
Reported: 11/09/11 08:00

LCS Dup - Cont.

Analyte	Result	RL	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Volatile Organic Compounds by EPA TO-15												
11K0185-BSD1												
Benzyl Chloride	7.97	2.00		ppbv	10.0	80%	70 - 130	6	25	11K0185		11-04-2011
Bromodichloromethane	7.92	0.50		ppbv	10.0	79%	70 - 130	7	25	11K0185		11-04-2011
Bromoethene(Vinyl Bromide)	8.12	0.50		ppbv	10.0	81%	70 - 130	5	25	11K0185		11-04-2011
Bromoform	8.22	0.50		ppbv	10.0	82%	70 - 130	3	25	11K0185		11-04-2011
Bromomethane	7.65	0.50		ppbv	10.0	76%	70 - 130	4	25	11K0185		11-04-2011
Carbon disulfide	9.50	0.50		ppbv	10.0	95%	70 - 130	6	25	11K0185		11-04-2011
Carbon tetrachloride	7.88	0.50		ppbv	10.0	79%	70 - 130	3	25	11K0185		11-04-2011
Chlorobenzene	8.21	0.50		ppbv	10.0	82%	70 - 130	1	25	11K0185		11-04-2011
Chloroethane	7.75	0.50		ppbv	10.0	78%	70 - 130	5	25	11K0185		11-04-2011
Chloroform	8.09	0.50		ppbv	10.0	81%	70 - 130	1	25	11K0185		11-04-2011
Chloromethane	9.54	0.50		ppbv	10.0	95%	70 - 130	8	25	11K0185		11-04-2011
cis-1,2-Dichloroethene	8.12	0.50		ppbv	10.0	81%	70 - 130	2	25	11K0185		11-04-2011
cis-1,3-Dichloropropene	7.99	0.50		ppbv	10.0	80%	70 - 130	8	25	11K0185		11-04-2011
Cyclohexane	7.85	0.50		ppbv	10.0	78%	70 - 130	4	25	11K0185		11-04-2011
Dibromochloromethane	7.96	0.50		ppbv	10.0	80%	70 - 130	7	25	11K0185		11-04-2011
Dichlorodifluoromethane	7.82	0.50		ppbv	10.0	78%	70 - 130	9	25	11K0185		11-04-2011
Dichlorotetrafluoroethane(F-114)	9.55	0.50		ppbv	10.0	96%	70 - 130	7	25	11K0185		11-04-2011
Ethyl Acetate	7.85	0.50		ppbv	10.0	78%	70 - 130	5	25	11K0185		11-04-2011
Ethylbenzene	8.12	0.50		ppbv	10.0	81%	70 - 130	3	25	11K0185		11-04-2011
Freon 113	7.64	0.50		ppbv	10.0	76%	70 - 130	4	25	11K0185		11-04-2011
Heptane	7.86	0.50		ppbv	10.0	79%	70 - 130	8	25	11K0185		11-04-2011
Hexachlorobutadiene	8.40	1.00		ppbv	10.0	84%	70 - 130	7	25	11K0185		11-04-2011
Hexane	7.84	0.50		ppbv	10.0	78%	70 - 130	3	25	11K0185		11-04-2011
Isopropylbenzene	9.98	0.50		ppbv	10.0	100%	70 - 130	5	25	11K0185		11-04-2011
m,p-Xylenes	18.3	1.00		ppbv	20.0	92%	70 - 130	12	25	11K0185		11-04-2011
Methylene Chloride	9.68	0.50		ppbv	10.0	97%	70 - 130	5	25	11K0185		11-04-2011
Methyl-tert-butyl Ether (MTBE)	7.88	1.00		ppbv	10.0	79%	70 - 130	5	25	11K0185		11-04-2011
Naphthalene	8.97	5.00		ppbv	10.0	90%	70 - 130	2	25	11K0185		11-04-2011
n-Butylbenzene	9.12	0.50		ppbv	10.0	91%	70 - 130	6	25	11K0185		11-04-2011
n-Nonane (C9)	9.90	0.50		ppbv	10.0	99%	70 - 130	4	25	11K0185		11-04-2011
n-Octane (C8)	9.02	0.50		ppbv	10.0	90%	70 - 130	8	25	11K0185		11-04-2011
n-Propylbenzene	9.85	0.50		ppbv	10.0	98%	70 - 130	4	25	11K0185		11-04-2011
o-Xylene	7.87	0.50		ppbv	10.0	79%	70 - 130	3	25	11K0185		11-04-2011
Propene	9.91	0.50		ppbv	10.0	99%	70 - 130	13	25	11K0185		11-04-2011
sec-Butylbenzene	9.50	0.50		ppbv	10.0	95%	70 - 130	5	25	11K0185		11-04-2011
Styrene	8.10	0.50		ppbv	10.0	81%	70 - 130	4	25	11K0185		11-04-2011
tert-Butylbenzene	9.59	0.50		ppbv	10.0	96%	70 - 130	5	25	11K0185		11-04-2011
Tetrachloroethene	7.70	0.50		ppbv	10.0	77%	70 - 130	7	25	11K0185		11-04-2011
Tetrahydrofuran	7.87	2.00		ppbv	10.0	79%	70 - 130	6	25	11K0185		11-04-2011
Toluene	7.91	0.50		ppbv	10.0	79%	70 - 130	6	25	11K0185		11-04-2011
trans-1,2-Dichloroethene	7.83	0.50		ppbv	10.0	78%	70 - 130	3	25	11K0185		11-04-2011

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LCS Dup - Cont.

Analyte	Result	RL	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Volatile Organic Compounds by EPA TO-15												
11K0185-BSD1												
trans-1,3-Dichloropropene	7.99	0.50		ppbv	10.0	80%	70 - 130	9	25	11K0185		11-04-2011
Trichloroethene	10.1	0.50		ppbv	10.0	101%	70 - 130	8	25	11K0185		11-04-2011
Trichlorofluoromethane	7.50	0.50		ppbv	10.0	75%	70 - 130	5	25	11K0185		11-04-2011
Vinyl Acetate	8.07	0.50		ppbv	10.0	81%	70 - 130	5	25	11K0185		11-04-2011
Vinyl chloride	7.59	0.50		ppbv	10.0	76%	70 - 130	7	25	11K0185		11-04-2011
<i>Surrogate: 4-Bromofluorobenzene</i>	9.61	0.50		ppbv	10.0	96%	70 - 130			11K0185		11-04-2011

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CERTIFICATION SUMMARY

Analyses included in this report were performed by TestAmerica Phoenix, 4625 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ 85040.

TestAmerica Phoenix (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1010, NIOSH 1015, NIOSH 1022, NIOSH 1300, NIOSH 1400, NIOSH 1401, NIOSH 1403, NIOSH 1405, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1550, NIOSH 1602, NIOSH 1604, NIOSH 1606, NIOSH 1609, NIOSH 1610, NIOSH 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2016, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7303, NIOSH 7600, NIOSH 7903, NIOSH 9100, NIOSH 9102, EPA IP-6A, EPA IP-6C, OSHA PV2120, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, OSHA ID-125G, OSHA IS-215, OSHA 1001, OSHA 1002, OSHA 1003, OSHA 1004, OSHA 1005 and OSHA Chemical and Sampling Information for Silane. Volatile organic compounds on 3M Organic Vapor Monitors, Assay Technology Passive Monitors and SKC Passive Monitors. Formaldehyde and other aldehydes and ketones on Assay Technology Passive Monitor. Aldehydes and ketones by EPA TO-11A.

The TestAmerica Phoenix is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Phoenix also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

- OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

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DATA QUALIFIERS AND DEFINITIONS

N1 See case narrative.

ADDITIONAL COMMENTS

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.
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PJ1542

Client Contact Information		Project Manager: <u>Chris Legg</u>		Page <u>1</u> of <u>1</u> COCs	
Company: <u>ARCADIS</u>		Phone:		Samples Collected By: <u>Nick Olivier</u>	
Address: <u>4646 E. Van Buren St. Ste 300</u>		Email: <u>Christopher.Legg@Arcadis-US.com</u>			
City/State/Zip: <u>Phoenix AZ</u>		Site Contact:			
Phone:		LAB Contact: <u>Tina Paulaskis</u>			
FAX:		Analysis Turnaround Time			
Project Name: <u>UPCO 3994018</u>		Standard (Specify): <u>Standard</u>			
Site: <u>Happy Valley Rd. & Central Ave.</u>		Rush (Specify):			
PO #: <u>3994018</u>					

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Model (Liters)	Flow Controller ID	Canister ID	TO-15 (Full or IAQ)	TO-14A	TO-3	EPA 25C	ASTM D-1946 (Fixed Gases)	Other (Please specify in notes section)	Sample Type	Indoor Air (IAQ)	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
SVMW-1-30-40	10/25/11	0914	0924	0.4, (1.0), 6.0		0647	X									X		01
SVMW-1-90-100		0946	0953	0.4, (1.0), 6.0		1431	X									X		02
SVMW-1-140-150		1020	1024	0.4, (1.0), 6.0		1249	X									X		03
SVMW-1-190-200		1039	1042	0.4, (1.0), 6.0		0241	X									X		04
Trip Blank	10/25/11			0.4, (1.0), 6.0			X											05
				0.4, 1.0, 6.0														
				0.4, 1.0, 6.0														
				0.4, 1.0, 6.0														
				0.4, 1.0, 6.0														
				0.4, 1.0, 6.0														
				0.4, 1.0, 6.0														
				0.4, 1.0, 6.0														

Special Instructions/QC Requirements & Comments:

Samples Shipped by:	Date/Time:	Samples Received by:
Samples Relinquished by: <u>Brian Brodome</u>	Date/Time: <u>10/25/11 1600</u>	Received by:
Relinquished by:	Date/Time:	Received by:

20.0°C

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO/3994018

Sampled: 02/23/11
Received: 02/23/11
Issued: 03/04/11 14:53

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID

PUB1428-01

CLIENT ID

520 E Yearling

MATRIX

Water

SAMPLE RECEIPT: Samples were received intact, at 1°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:



TestAmerica Phoenix

Carlene McCutcheon
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1428

Sampled: 02/23/11

Received: 02/23/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUB1428-01 (520 E Yearling - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11B0971	2.0	ND	1	2/25/2011	2/26/2011	

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

PUB1428 <Page 2 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018
Report Number: PUB1428

Sampled: 02/23/11
Received: 02/23/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 11B0971 Extracted: 02/25/11										
Blank Analyzed: 02/25/2011 (11B0971-BLK1)										
Perchlorate	ND	2.0	ug/l							
LCS Analyzed: 02/25/2011 (11B0971-BS1)										
Perchlorate	25.2	NA	ug/l	25.0		101	85-115			
LCS Dup Analyzed: 02/25/2011 (11B0971-BSD1)										
Perchlorate	24.2	NA	ug/l	25.0		97	85-115	4	15	
Duplicate Analyzed: 02/25/2011 (11B0971-DUP1)										
Perchlorate	1.89	2.0	ug/l		Source: PUB1489-02	1.66		13	15	
Duplicate Analyzed: 02/26/2011 (11B0971-DUP2)										
Perchlorate	ND	2.0	ug/l		Source: PUB1430-01	ND			15	
Matrix Spike Analyzed: 02/25/2011 (11B0971-MS1)										
Perchlorate	24.4	2.0	ug/l	25.0	Source: PUB1489-08	1.16	93	80-120		
Matrix Spike Analyzed: 02/25/2011 (11B0971-MS2)										
Perchlorate	23.4	2.0	ug/l	25.0	Source: PUB1489-10	ND	94	80-120		
Matrix Spike Dup Analyzed: 02/25/2011 (11B0971-MSD1)										
Perchlorate	24.9	2.0	ug/l	25.0	Source: PUB1489-08	1.16	95	80-120	2	15
Matrix Spike Dup Analyzed: 02/25/2011 (11B0971-MSD2)										
Perchlorate	23.8	2.0	ug/l	25.0	Source: PUB1489-10	ND	95	80-120	2	15

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1428

Sampled: 02/23/11

Received: 02/23/11

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD Relative Percent Difference

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced,
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PUB1428 <Page 4 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1428

Sampled: 02/23/11

Received: 02/23/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 314.0	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO/3994018

Sampled: 02/23/11
Received: 02/23/11
Issued: 03/04/11 15:03

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID

PUB1429-01

CLIENT ID

218 E Yearling

MATRIX

Water

SAMPLE RECEIPT: Samples were received intact, at 1°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:



TestAmerica Phoenix

Carlene McCutcheon
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1429

Sampled: 02/23/11

Received: 02/23/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUB1429-01 (218 E Yearling - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11B0971	2.0	ND	1	2/25/2011	2/26/2011	

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

PUB1429 <Page 2 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018
Report Number: PUB1429

Sampled: 02/23/11
Received: 02/23/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11B0971 Extracted: 02/25/11										
Blank Analyzed: 02/25/2011 (11B0971-BLK1)										
Perchlorate	ND	2.0	ug/l							
LCS Analyzed: 02/25/2011 (11B0971-BS1)										
Perchlorate	25.2	NA	ug/l	25.0		101	85-115			
LCS Dup Analyzed: 02/25/2011 (11B0971-BSD1)										
Perchlorate	24.2	NA	ug/l	25.0		97	85-115	4	15	
Duplicate Analyzed: 02/25/2011 (11B0971-DUP1)										
Perchlorate	1.89	2.0	ug/l							
					Source: PUB1489-02					
					1.66			13	15	
Duplicate Analyzed: 02/26/2011 (11B0971-DUP2)										
Perchlorate	ND	2.0	ug/l							
					Source: PUB1430-01					
					ND				15	
Matrix Spike Analyzed: 02/25/2011 (11B0971-MS1)										
Perchlorate	24.4	2.0	ug/l	25.0	1.16	93	80-120			
					Source: PUB1489-08					
Matrix Spike Analyzed: 02/25/2011 (11B0971-MS2)										
Perchlorate	23.4	2.0	ug/l	25.0	ND	94	80-120			
					Source: PUB1489-10					
Matrix Spike Dup Analyzed: 02/25/2011 (11B0971-MSD1)										
Perchlorate	24.9	2.0	ug/l	25.0	1.16	95	80-120	2	15	
					Source: PUB1489-08					
Matrix Spike Dup Analyzed: 02/25/2011 (11B0971-MSD2)										
Perchlorate	23.8	2.0	ug/l	25.0	ND	95	80-120	2	15	
					Source: PUB1489-10					

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1429

Sampled: 02/23/11

Received: 02/23/11

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD Relative Percent Difference

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced,
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PUB1429 <Page 4 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1429

Sampled: 02/23/11

Received: 02/23/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 314.0	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO/3994018

Sampled: 02/23/11
Received: 02/23/11
Issued: 03/04/11 15:12

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID

PUB1430-01

CLIENT ID

18 E. Yearling

MATRIX

Water

SAMPLE RECEIPT: Samples were received intact, at 1°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:



TestAmerica Phoenix

Carlene McCutcheon
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1430

Sampled: 02/23/11

Received: 02/23/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUB1430-01 (18 E. Yearling - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11B0971	2.0	ND	1	2/25/2011	2/26/2011	

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

PUB1430 <Page 2 of 5>

ARCADIS U.S., Inc. - Phoenix
 4646 E Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO/3994018
 Report Number: PUB1430

Sampled: 02/23/11
 Received: 02/23/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 11B0971 Extracted: 02/25/11										
Blank Analyzed: 02/25/2011 (11B0971-BLK1)										
Perchlorate	ND	2.0	ug/l							
LCS Analyzed: 02/25/2011 (11B0971-BS1)										
Perchlorate	25.2	NA	ug/l	25.0		101	85-115			
LCS Dup Analyzed: 02/25/2011 (11B0971-BSD1)										
Perchlorate	24.2	NA	ug/l	25.0		97	85-115	4	15	
Duplicate Analyzed: 02/25/2011 (11B0971-DUP1)										
Perchlorate	1.89	2.0	ug/l		Source: PUB1489-02	1.66		13	15	
Duplicate Analyzed: 02/26/2011 (11B0971-DUP2)										
Perchlorate	ND	2.0	ug/l		Source: PUB1430-01	ND			15	
Matrix Spike Analyzed: 02/25/2011 (11B0971-MS1)										
Perchlorate	24.4	2.0	ug/l	25.0	Source: PUB1489-08	1.16	93	80-120		
Matrix Spike Analyzed: 02/25/2011 (11B0971-MS2)										
Perchlorate	23.4	2.0	ug/l	25.0	Source: PUB1489-10	ND	94	80-120		
Matrix Spike Dup Analyzed: 02/25/2011 (11B0971-MSD1)										
Perchlorate	24.9	2.0	ug/l	25.0	Source: PUB1489-08	1.16	95	80-120	2	15
Matrix Spike Dup Analyzed: 02/25/2011 (11B0971-MSD2)										
Perchlorate	23.8	2.0	ug/l	25.0	Source: PUB1489-10	ND	95	80-120	2	15

TestAmerica Phoenix

Carlene McCutcheon
 Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1430

Sampled: 02/23/11

Received: 02/23/11

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD Relative Percent Difference

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced,
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PUB1430 <Page 4 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1430

Sampled: 02/23/11

Received: 02/23/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 314.0	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO/3994018

Sampled: 02/23/11
Received: 02/23/11
Issued: 03/04/11 14:57

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID

PUB1431-01

CLIENT ID

204 E. Yearling

MATRIX

Water

SAMPLE RECEIPT: Samples were received intact, at 1°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:



TestAmerica Phoenix

Carlene McCutcheon
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1431

Sampled: 02/23/11

Received: 02/23/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUB1431-01 (204 E. Yearling - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11B0971	2.0	ND	1	2/25/2011	2/26/2011	

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

PUB1431 <Page 2 of 5>

ARCADIS U.S., Inc. - Phoenix
 4646 E Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1431

Sampled: 02/23/11

Received: 02/23/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 11B0971 Extracted: 02/25/11										
Blank Analyzed: 02/25/2011 (11B0971-BLK1)										
Perchlorate	ND	2.0	ug/l							
LCS Analyzed: 02/25/2011 (11B0971-BS1)										
Perchlorate	25.2	NA	ug/l	25.0		101	85-115			
LCS Dup Analyzed: 02/25/2011 (11B0971-BSD1)										
Perchlorate	24.2	NA	ug/l	25.0		97	85-115	4	15	
Duplicate Analyzed: 02/25/2011 (11B0971-DUP1)										
Perchlorate	1.89	2.0	ug/l		Source: PUB1489-02	1.66		13	15	
Duplicate Analyzed: 02/26/2011 (11B0971-DUP2)										
Perchlorate	ND	2.0	ug/l		Source: PUB1430-01	ND			15	
Matrix Spike Analyzed: 02/25/2011 (11B0971-MS1)										
Perchlorate	24.4	2.0	ug/l	25.0	Source: PUB1489-08	1.16	93	80-120		
Matrix Spike Analyzed: 02/25/2011 (11B0971-MS2)										
Perchlorate	23.4	2.0	ug/l	25.0	Source: PUB1489-10	ND	94	80-120		
Matrix Spike Dup Analyzed: 02/25/2011 (11B0971-MSD1)										
Perchlorate	24.9	2.0	ug/l	25.0	Source: PUB1489-08	1.16	95	80-120	2	15
Matrix Spike Dup Analyzed: 02/25/2011 (11B0971-MSD2)										
Perchlorate	23.8	2.0	ug/l	25.0	Source: PUB1489-10	ND	95	80-120	2	15

TestAmerica Phoenix

Carlene McCutcheon
 Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1431

Sampled: 02/23/11

Received: 02/23/11

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD Relative Percent Difference

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced,
except in full, without written permission from TestAmerica.*

PUB1431 <Page 4 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1431

Sampled: 02/23/11

Received: 02/23/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 314.0	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

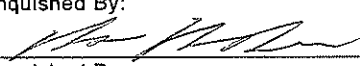
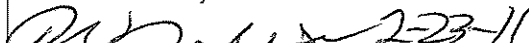
Carlene McCutcheon
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

CHAIN OF CUSTODY FORM

Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
 Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
 Las Vegas - 2520 E. Sunset, Suite 3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

TAL-0013-550 (12/08)

Client Name / Address: Malcolm Pirnie Inc. 4646 E Van Buren St. Ste 400 Phoenix AZ 85008			Project / PO Number: UPCO/3994018				Analysis Required															
Project Manager: Greg Guimond			Phone Number: 602-241-1770				Perchlorate 314															
Sampler: Bryan Brockman			Fax Number: 602-231-0131																			
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives															Special Instructions	
204 E. Yearling	W	500ml Poly	1	2/23/11	14:00	None	X														PUB 1431-01	
Relinquished By: 			Date/Time: 2/23/11 15:02				Received By:			Date/Time:				Turnaround Time: (Check)								
Relinquished By:			Date/Time:				Received By:			Date/Time:				same day _____ 72 hours _____								
Relinquished By:			Date/Time:				Received By:			Date/Time:				24 hours _____ 5 days _____								
Relinquished By:			Date/Time:				Received in Lab By: 			Date/Time: 2-23-11 1502				48 hours _____ normal <input checked="" type="checkbox"/>								
Relinquished By:			Date/Time:				Received in Lab By:			Date/Time:				Sample Integrity: (Check)								
Relinquished By:			Date/Time:				Received in Lab By:			Date/Time:				intact _____ on ice <input checked="" type="checkbox"/>								

Note: By relinquishing samples to TestAmerica, 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.

JOC

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO/3994018

Sampled: 02/24/11
Received: 02/24/11
Issued: 03/08/11 16:32

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID

PUB1529-01

CLIENT ID

8 W Yearling

MATRIX

Water

SAMPLE RECEIPT: Samples were received intact, at 1°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:



TestAmerica Phoenix

Carlene McCutcheon
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1529

Sampled: 02/24/11

Received: 02/24/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUB1529-01 (8 W Yearling - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11B0971	2.0	ND	1	2/25/2011	2/26/2011	

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

PUB1529 <Page 2 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018
Report Number: PUB1529

Sampled: 02/24/11
Received: 02/24/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11B0971 Extracted: 02/25/11										
Blank Analyzed: 02/25/2011 (11B0971-BLK1)										
Perchlorate	ND	2.0	ug/l							
LCS Analyzed: 02/25/2011 (11B0971-BS1)										
Perchlorate	25.2	NA	ug/l	25.0		101	85-115			
LCS Dup Analyzed: 02/25/2011 (11B0971-BSD1)										
Perchlorate	24.2	NA	ug/l	25.0		97	85-115	4	15	
Duplicate Analyzed: 02/25/2011 (11B0971-DUP1)										
Perchlorate	1.89	2.0	ug/l							
					Source: PUB1489-02					
					1.66			13	15	
Duplicate Analyzed: 02/26/2011 (11B0971-DUP2)										
Perchlorate	ND	2.0	ug/l							
					Source: PUB1430-01					
					ND				15	
Matrix Spike Analyzed: 02/25/2011 (11B0971-MS1)										
Perchlorate	24.4	2.0	ug/l	25.0	1.16	93	80-120			
					Source: PUB1489-08					
Matrix Spike Analyzed: 02/25/2011 (11B0971-MS2)										
Perchlorate	23.4	2.0	ug/l	25.0	ND	94	80-120			
					Source: PUB1489-10					
Matrix Spike Dup Analyzed: 02/25/2011 (11B0971-MSD1)										
Perchlorate	24.9	2.0	ug/l	25.0	1.16	95	80-120	2	15	
					Source: PUB1489-08					
Matrix Spike Dup Analyzed: 02/25/2011 (11B0971-MSD2)										
Perchlorate	23.8	2.0	ug/l	25.0	ND	95	80-120	2	15	
					Source: PUB1489-10					

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1529

Sampled: 02/24/11

Received: 02/24/11

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD Relative Percent Difference

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced,
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PUB1529 <Page 4 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1529

Sampled: 02/24/11

Received: 02/24/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 314.0	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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CHAIN OF CUSTODY FORM

Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
 Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
 Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Client Name/Address: Malcolm Pierce, Inc 4610 E. Van Buren St, Ste 400 Phoenix, AZ 85008			Project/PO Number: LPO/3994018				Analysis Required										
Project Manager: Greg Guimond			Phone Number: 602-241-1770				perchlorate 314										
Sampler: Brian Brockman			Fax Number: 602-231-0131														
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	Special Instructions										
8 W. Yearling	w	500ml poly	1	2/24/11	1525	-	PUB 1529-01										
BB																	
Relinquished By:			Date/Time: 2/24/11 17:15		Received By:			Date/Time:			Turnaround Time: (Check)						
Relinquished By:			Date/Time:		Received By:			Date/Time:			same day _____ 72 hours _____						
Relinquished By:			Date/Time:		Received in Lab By:			Date/Time: 2-24-11 1715			24 hours _____ 5 days _____						
Relinquished By:			Date/Time:								48 hours _____ normal <input checked="" type="checkbox"/>						
Relinquished By:			Date/Time:								Sample Integrity: (Check)						
Relinquished By:			Date/Time:								intact _____ on ice <input checked="" type="checkbox"/>						

Note: By relinquishing samples to TestAmerica, 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.

1.2

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO/3994018

Sampled: 02/24/11
Received: 02/24/11
Issued: 03/08/11 16:25

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID

PUB1530-01

CLIENT ID

16 E. Yearling

MATRIX

Water

SAMPLE RECEIPT: Samples were received intact, at 1°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:



TestAmerica Phoenix

Carlene McCutcheon
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1530

Sampled: 02/24/11

Received: 02/24/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUB1530-01 (16 E. Yearling - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11B0971	2.0	ND	1	2/25/2011	2/26/2011	

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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PUB1530 <Page 2 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018
Report Number: PUB1530

Sampled: 02/24/11
Received: 02/24/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11B0971 Extracted: 02/25/11										
Blank Analyzed: 02/25/2011 (11B0971-BLK1)										
Perchlorate	ND	2.0	ug/l							
LCS Analyzed: 02/25/2011 (11B0971-BS1)										
Perchlorate	25.2	NA	ug/l	25.0		101	85-115			
LCS Dup Analyzed: 02/25/2011 (11B0971-BSD1)										
Perchlorate	24.2	NA	ug/l	25.0		97	85-115	4	15	
Duplicate Analyzed: 02/25/2011 (11B0971-DUP1)										
Perchlorate	1.89	2.0	ug/l		Source: PUB1489-02	1.66		13	15	
Duplicate Analyzed: 02/26/2011 (11B0971-DUP2)										
Perchlorate	ND	2.0	ug/l		Source: PUB1430-01	ND			15	
Matrix Spike Analyzed: 02/25/2011 (11B0971-MS1)										
Perchlorate	24.4	2.0	ug/l	25.0	Source: PUB1489-08	1.16	93	80-120		
Matrix Spike Analyzed: 02/25/2011 (11B0971-MS2)										
Perchlorate	23.4	2.0	ug/l	25.0	Source: PUB1489-10	ND	94	80-120		
Matrix Spike Dup Analyzed: 02/25/2011 (11B0971-MSD1)										
Perchlorate	24.9	2.0	ug/l	25.0	Source: PUB1489-08	1.16	95	80-120	2	15
Matrix Spike Dup Analyzed: 02/25/2011 (11B0971-MSD2)										
Perchlorate	23.8	2.0	ug/l	25.0	Source: PUB1489-10	ND	95	80-120	2	15

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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PUB1530 <Page 3 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1530

Sampled: 02/24/11

Received: 02/24/11

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD Relative Percent Difference

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced,
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PUB1530 <Page 4 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1530

Sampled: 02/24/11

Received: 02/24/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 314.0	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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CHAIN OF CUSTODY FORM

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 [] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
 [] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Client Name/Address: Malcolm Pienio, Inc 4616 E. Van Buren St, Ste 400 Phoenix, AZ 85008		Project/PO Number: WPCO/3994018				Analysis Required															
Project Manager: Greg Guimond		Phone Number: 603-231-1770				purchase 314															
Sampler: Brian Brockman		Fax Number: 602-231-0131																			
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives														Special Instructions	
16 E. Yearling	W	500ml poly	1	2/24/11	1535	—	X													PUB 1530-01	
BR																					
Relinquished By: <i>[Signature]</i>		Date/Time: 2/24/11 17:15		Received By:		Date/Time:		Turnaround Time: (Check)													
Relinquished By:		Date/Time:		Received By:		Date/Time:		same day _____ 72 hours _____													
Relinquished By:		Date/Time:		Received in Lab By: <i>[Signature]</i>		Date/Time: 2-24-11 17:15		24 hours _____ 5 days _____													
Relinquished By:		Date/Time:		Received in Lab By:		Date/Time:		48 hours _____ normal <input checked="" type="checkbox"/>													
Relinquished By:		Date/Time:		Received in Lab By:		Date/Time:		Sample Integrity: (Check)													
Relinquished By:		Date/Time:		Received in Lab By:		Date/Time:		intact _____ on ice <input checked="" type="checkbox"/>													

Note: By relinquishing samples to TestAmerica, 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. 1.2°

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO/3994018

Sampled: 02/24/11
Received: 02/24/11
Issued: 03/08/11 16:21

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID

PUB1531-01

CLIENT ID

25825 N 1st Place

MATRIX

Water

SAMPLE RECEIPT: Samples were received intact, at 1°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:



TestAmerica Phoenix

Carlene McCutcheon
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1531

Sampled: 02/24/11

Received: 02/24/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUB1531-01 (25825 N 1st Place - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11B0971	2.0	ND	1	2/25/2011	2/26/2011	

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

PUB1531 <Page 2 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018
Report Number: PUB1531

Sampled: 02/24/11
Received: 02/24/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11B0971 Extracted: 02/25/11										
Blank Analyzed: 02/25/2011 (11B0971-BLK1)										
Perchlorate	ND	2.0	ug/l							
LCS Analyzed: 02/25/2011 (11B0971-BS1)										
Perchlorate	25.2	NA	ug/l	25.0		101	85-115			
LCS Dup Analyzed: 02/25/2011 (11B0971-BSD1)										
Perchlorate	24.2	NA	ug/l	25.0		97	85-115	4	15	
Duplicate Analyzed: 02/25/2011 (11B0971-DUP1)										
Perchlorate	1.89	2.0	ug/l		Source: PUB1489-02	1.66		13	15	
Duplicate Analyzed: 02/26/2011 (11B0971-DUP2)										
Perchlorate	ND	2.0	ug/l		Source: PUB1430-01	ND			15	
Matrix Spike Analyzed: 02/25/2011 (11B0971-MS1)										
Perchlorate	24.4	2.0	ug/l	25.0	Source: PUB1489-08	1.16	93	80-120		
Matrix Spike Analyzed: 02/25/2011 (11B0971-MS2)										
Perchlorate	23.4	2.0	ug/l	25.0	Source: PUB1489-10	ND	94	80-120		
Matrix Spike Dup Analyzed: 02/25/2011 (11B0971-MSD1)										
Perchlorate	24.9	2.0	ug/l	25.0	Source: PUB1489-08	1.16	95	80-120	2	15
Matrix Spike Dup Analyzed: 02/25/2011 (11B0971-MSD2)										
Perchlorate	23.8	2.0	ug/l	25.0	Source: PUB1489-10	ND	95	80-120	2	15

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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PUB1531 <Page 3 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1531

Sampled: 02/24/11

Received: 02/24/11

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD Relative Percent Difference

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced,
except in full, without written permission from TestAmerica.*

PUB1531 <Page 4 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1531

Sampled: 02/24/11

Received: 02/24/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 314.0	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com



TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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CHAIN OF CUSTODY FORM

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 Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
 Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Client Name / Address: Malcolm Piana, Inc 4611 E. Van Buren St, Ste 400 Phoenix, AZ 85009			Project / PO Number: UPCO / 3994018				Analysis Required										
Project Manager: Greg Guimond			Phone Number: 602-241-1770				perchlorate 314										
Sampler: Brian Brockman			Fax Number: 602-231-0131														
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	Special Instructions										
25825 N 1st Place	W	500ml poly	1	2/24/11	1545	-	PUB 1531-01										
BD																	
Relinquished By: 			Date / Time: 2/24/11 17:15		Received By:			Date / Time:			Turnaround Time: (Check)						
Relinquished By:			Date / Time:		Received By:			Date / Time:			same day _____ 72 hours _____						
Relinquished By:			Date / Time:		Received in Lab By: 			Date / Time: 17:15			24 hours _____ 5 days _____						
Relinquished By:			Date / Time:		Received in Lab By:			Date / Time:			48 hours _____ normal <input checked="" type="checkbox"/>						
Relinquished By:			Date / Time:		Received in Lab By:			Date / Time:			Sample Integrity: (Check)						
Relinquished By:			Date / Time:		Received in Lab By:			Date / Time:			intact _____ on ice <input checked="" type="checkbox"/>						

Note: By relinquishing samples to TestAmerica, 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.

1.2° C

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO/3994018

Sampled: 02/24/11
Received: 02/24/11
Issued: 03/08/11 16:26

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID

PUB1533-01

CLIENT ID

25903 N 2nd St

MATRIX

Water

SAMPLE RECEIPT: Samples were received intact, at 1°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:



TestAmerica Phoenix

Carlene McCutcheon
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1533

Sampled: 02/24/11

Received: 02/24/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUB1533-01 (25903 N 2nd St - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11B0971	2.0	ND	1	2/25/2011	2/26/2011	

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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PUB1533 <Page 2 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018
Report Number: PUB1533

Sampled: 02/24/11
Received: 02/24/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11B0971 Extracted: 02/25/11										
Blank Analyzed: 02/25/2011 (11B0971-BLK1)										
Perchlorate	ND	2.0	ug/l							
LCS Analyzed: 02/25/2011 (11B0971-BS1)										
Perchlorate	25.2	NA	ug/l	25.0		101	85-115			
LCS Dup Analyzed: 02/25/2011 (11B0971-BSD1)										
Perchlorate	24.2	NA	ug/l	25.0		97	85-115	4	15	
Duplicate Analyzed: 02/25/2011 (11B0971-DUP1)										
Perchlorate	1.89	2.0	ug/l		Source: PUB1489-02	1.66		13	15	
Duplicate Analyzed: 02/26/2011 (11B0971-DUP2)										
Perchlorate	ND	2.0	ug/l		Source: PUB1430-01	ND			15	
Matrix Spike Analyzed: 02/25/2011 (11B0971-MS1)										
Perchlorate	24.4	2.0	ug/l	25.0	Source: PUB1489-08	1.16	93	80-120		
Matrix Spike Analyzed: 02/25/2011 (11B0971-MS2)										
Perchlorate	23.4	2.0	ug/l	25.0	Source: PUB1489-10	ND	94	80-120		
Matrix Spike Dup Analyzed: 02/25/2011 (11B0971-MSD1)										
Perchlorate	24.9	2.0	ug/l	25.0	Source: PUB1489-08	1.16	95	80-120	2	15
Matrix Spike Dup Analyzed: 02/25/2011 (11B0971-MSD2)										
Perchlorate	23.8	2.0	ug/l	25.0	Source: PUB1489-10	ND	95	80-120	2	15

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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PUB1533 <Page 3 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1533

Sampled: 02/24/11

Received: 02/24/11

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD Relative Percent Difference

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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PUB1533 <Page 4 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1533

Sampled: 02/24/11

Received: 02/24/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 314.0	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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Client Name / Address: <i>Malcolm Pinnick Inc. 4646 E Van Buren St Ste 400 Phoenix AZ 85006</i>			Project / PO Number: <i>UPCO/3994018</i>				Analysis Required										
Project Manager: <i>Greg Guinnard</i>			Phone Number: <i>602-741-1770</i>				<i>perchlorate 314</i>										
Sampler: <i>Roman Brockman</i>			Fax Number: <i>602-331-0131</i>														
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	Special Instructions										
<i>25903 N 2nd St</i>	<i>W</i>	<i>50ml poly</i>	<i>1</i>	<i>2/24/11</i>	<i>1555</i>	<i>-</i>	<i>PUB 1533-01</i>										
<i>B13</i>																	
Relinquished By: <i>[Signature]</i>			Date / Time: <i>2/24/11 17:15</i>		Received By:			Date / Time:			Turnaround Time: (Check)						
Relinquished By:			Date / Time:		Received By:			Date / Time:			same day _____ 72 hours _____ 24 hours _____ 5 days _____ 48 hours _____ normal <input checked="" type="checkbox"/>						
Relinquished By:			Date / Time:		Received in Lab By: <i>[Signature]</i>			Date / Time: <i>2-24-11 1715</i>			Sample Integrity: (Check)						
											intact _____ on ice <input checked="" type="checkbox"/>						

Note: By relinquishing samples to TestAmerica, 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. *1, 20c*

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO/3994018

Sampled: 02/25/11
Received: 02/25/11
Issued: 03/09/11 16:28

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID

PUB1608-01

CLIENT ID

122 W. Yearling

MATRIX

Water

SAMPLE RECEIPT: Samples were received intact, at 3°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:



TestAmerica Phoenix

Carlene McCutcheon
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1608

Sampled: 02/25/11

Received: 02/25/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUB1608-01 (122 W. Yearling - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11C0020	2.0	ND	1	3/1/2011	3/2/2011	

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

PUB1608 <Page 2 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018
Report Number: PUB1608

Sampled: 02/25/11
Received: 02/25/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0020 Extracted: 03/01/11										
Blank Analyzed: 03/01/2011 (11C0020-BLK1)										
Perchlorate	ND	2.0	ug/l							
LCS Analyzed: 03/01/2011 (11C0020-BS1)										
Perchlorate	26.6	NA	ug/l	25.0		106	85-115			
LCS Dup Analyzed: 03/01/2011 (11C0020-BSD1)										
Perchlorate	24.2	NA	ug/l	25.0		97	85-115	10	15	
Duplicate Analyzed: 03/01/2011 (11C0020-DUP1)										
Perchlorate	2.08	2.0	ug/l							
					Source: PUC0001-05					
					1.47			35	15	R9
Duplicate Analyzed: 03/01/2011 (11C0020-DUP2)										
Perchlorate	1.91	2.0	ug/l							
					Source: PUC0046-03					
					1.25			42	15	R9
Matrix Spike Analyzed: 03/01/2011 (11C0020-MS1)										
Perchlorate	27.3	2.0	ug/l	25.0	3.81	94	80-120			
					Source: PUB1599-22					
Matrix Spike Analyzed: 03/01/2011 (11C0020-MS2)										
Perchlorate	28.7	2.0	ug/l	25.0	5.88	91	80-120			
					Source: PUB1599-24					
Matrix Spike Dup Analyzed: 03/01/2011 (11C0020-MSD1)										
Perchlorate	26.9	2.0	ug/l	25.0	3.81	92	80-120	2	15	
					Source: PUB1599-22					
Matrix Spike Dup Analyzed: 03/01/2011 (11C0020-MSD2)										
Perchlorate	28.6	2.0	ug/l	25.0	5.88	91	80-120	0.3	15	
					Source: PUB1599-24					

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1608

Sampled: 02/25/11

Received: 02/25/11

DATA QUALIFIERS AND DEFINITIONS

- R9** Sample RPD exceeded the laboratory acceptance limit
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced,
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PUB1608 <Page 4 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1608

Sampled: 02/25/11

Received: 02/25/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 314.0	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

TAL-0013-550 (10/10)

[] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
 [] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
 [] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Page 1 of 1

Client Name / Address: <i>Malcolm P. King, Inc 4646 E Van Buren St Ste 400 Phoenix AZ 85008</i>			Project / PO Number: <i>UPCO/37940K</i>				Analysis Required																	
Project Manager: <i>Greg Gunnar</i>			Phone Number: <i>602-241-1770</i>				<i>314 Perchlorate</i>																	
Sampler: <i>Bryan Brochman</i>			Fax Number: <i>602-231-0131</i>																					
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	Special Instructions																	
<i>122 W. Yearling</i>	<i>W</i>	<i>300ml VOA</i>	<i>1</i>	<i>2/25/11</i>	<i>16:05</i>	<i>None</i>	<i>PUB 1608-01</i>																	
<i>195</i>																								
Relinquished By: <i>[Signature]</i>			Date / Time: <i>2/25/11 16:10</i>		Received By: <i>[Signature]</i>			Date / Time:			Turnaround Time: (Check)													
Relinquished By:			Date / Time:		Received By:			Date / Time:			same day _____ 72 hours _____													
Relinquished By:			Date / Time:		Received in Lab By: <i>[Signature]</i>			Date / Time: <i>2/25/11 1810</i>			24 hours _____ 5 days _____													
Relinquished By:			Date / Time:		Received in Lab By:			Date / Time:			48 hours _____ normal <input checked="" type="checkbox"/>													
Relinquished By:			Date / Time:		Received in Lab By:			Date / Time:			Sample Integrity: (Check)													
Relinquished By:			Date / Time:		Received in Lab By:			Date / Time:			intact <input checked="" type="checkbox"/> on ice <input checked="" type="checkbox"/>													

Note: By relinquishing samples to TestAmerica, 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.

3.20

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO/3994018

Sampled: 02/25/11
Received: 02/25/11
Issued: 03/09/11 16:27

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PUB1609-01	412 E. Yearling	Water
SAMPLE RECEIPT:	Samples were received intact, at 3°C, on ice and with chain of custody documentation.	
HOLDING TIMES:	All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.	
PRESERVATION:	Samples requiring preservation were verified prior to sample analysis.	
QA/QC CRITERIA:	All analyses met method criteria, except as noted in the report with data qualifiers.	
COMMENTS:	No significant observations were made.	
SUBCONTRACTED:	No analyses were subcontracted to an outside laboratory.	

Reviewed By:



TestAmerica Phoenix

Carlene McCutcheon
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1609

Sampled: 02/25/11

Received: 02/25/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUB1609-01 (412 E. Yearling - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11C0081	2.0	ND	1	3/2/2011	3/2/2011	

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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PUB1609 <Page 2 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018
Report Number: PUB1609

Sampled: 02/25/11
Received: 02/25/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0081 Extracted: 03/02/11										
Blank Analyzed: 03/02/2011 (11C0081-BLK1)										
Perchlorate	ND	2.0	ug/l							
LCS Analyzed: 03/02/2011 (11C0081-BS1)										
Perchlorate	24.4	NA	ug/l	25.0		98	85-115			
LCS Dup Analyzed: 03/02/2011 (11C0081-BSD1)										
Perchlorate	24.8	NA	ug/l	25.0		99	85-115	2	15	
Duplicate Analyzed: 03/02/2011 (11C0081-DUP1)										
Perchlorate	80.4	10	ug/l		78.7			2	15	Source: PUB1599-30RE1
Duplicate Analyzed: 03/02/2011 (11C0081-DUP2)										
Perchlorate	ND	2.0	ug/l		ND				15	Source: PUB1610-01
Matrix Spike Analyzed: 03/02/2011 (11C0081-MS1)										
Perchlorate	24.4	2.0	ug/l	25.0	0.824	94	80-120			Source: PUB1609-01
Matrix Spike Analyzed: 03/02/2011 (11C0081-MS2)										
Perchlorate	23.2	2.0	ug/l	25.0	0.914	89	80-120			Source: PUB1611-01
Matrix Spike Dup Analyzed: 03/02/2011 (11C0081-MSD1)										
Perchlorate	23.8	2.0	ug/l	25.0	0.824	92	80-120	3	15	Source: PUB1609-01
Matrix Spike Dup Analyzed: 03/02/2011 (11C0081-MSD2)										
Perchlorate	23.7	2.0	ug/l	25.0	0.914	91	80-120	2	15	Source: PUB1611-01

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1609

Sampled: 02/25/11

Received: 02/25/11

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD Relative Percent Difference

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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PUB1609 <Page 4 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1609

Sampled: 02/25/11

Received: 02/25/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 314.0	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

TAL-0013-550 (10/10)

[] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
 [] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
 [] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Client Name/Address: <i>Malcolm Pirnie, Inc 4145 E Van Buren St Ste 480 Phoenix AZ 85008</i>			Project/PO Number: <i>VPCO/399240K</i>				Analysis Required															
Project Manager: <i>Greg Gwinner</i>			Phone Number: <i>602-241-1177</i>				<i>3/14 per Amberly</i>															
Sampler: <i>Brian Blackman</i>			Fax Number: <i>602-231-0131</i>																			
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives												Special Instructions				
<i>412 E. Yearling</i>	<i>W</i>	<i>500ml poly</i>	<i>1</i>	<i>2/25/11</i>	<i>16:20</i>	<i>None</i>	<i>X</i>											<i>POB 1609-01</i>				
Relinquished By: <i>[Signature]</i>			Date/Time: <i>2/25/11 18:10</i>		Received By: <i>[Signature]</i>			Date/Time: <i>2/25/11 19:10</i>			Turnaround Time: (Check)											
Relinquished By:			Date/Time:		Received By:			Date/Time:			same day _____		72 hours _____		24 hours _____		5 days _____		48 hours _____		normal <input checked="" type="checkbox"/>	
Relinquished By:			Date/Time:		Received in Lab By: <i>[Signature]</i>			Date/Time: <i>2/25/11 19:10</i>			Sample Integrity: (Check)											
											intact <input checked="" type="checkbox"/>		on ice <input checked="" type="checkbox"/>									

Note: By relinquishing samples to TestAmerica, 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.

3.2°C

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO/3994018

Sampled: 02/25/11
Received: 02/25/11
Revised: 03/10/11 13:15

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID

PUB1610-01

CLIENT ID

604-616 E. Yearling

MATRIX

Water

SAMPLE RECEIPT: Samples were received intact, at 3°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

REVISED Report: Please note that this report has been revised to change the Sample ID.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:



TestAmerica Phoenix

Carlene McCutcheon
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1610

Sampled: 02/25/11

Received: 02/25/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUB1610-01 (604-616 E. Yearling - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11C0081	2.0	ND	1	3/2/2011	3/2/2011	

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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PUB1610 <Page 2 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018
Report Number: PUB1610

Sampled: 02/25/11
Received: 02/25/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0081 Extracted: 03/02/11										
Blank Analyzed: 03/02/2011 (11C0081-BLK1)										
Perchlorate	ND	2.0	ug/l							
LCS Analyzed: 03/02/2011 (11C0081-BS1)										
Perchlorate	24.4	NA	ug/l	25.0		98	85-115			
LCS Dup Analyzed: 03/02/2011 (11C0081-BSD1)										
Perchlorate	24.8	NA	ug/l	25.0		99	85-115	2	15	
Duplicate Analyzed: 03/02/2011 (11C0081-DUP1)										
Perchlorate	80.4	10	ug/l		78.7			2	15	Source: PUB1599-30RE1
Duplicate Analyzed: 03/02/2011 (11C0081-DUP2)										
Perchlorate	ND	2.0	ug/l		ND				15	Source: PUB1610-01
Matrix Spike Analyzed: 03/02/2011 (11C0081-MS1)										
Perchlorate	24.4	2.0	ug/l	25.0	0.824	94	80-120			Source: PUB1609-01
Matrix Spike Analyzed: 03/02/2011 (11C0081-MS2)										
Perchlorate	23.2	2.0	ug/l	25.0	0.914	89	80-120			Source: PUB1611-01
Matrix Spike Dup Analyzed: 03/02/2011 (11C0081-MSD1)										
Perchlorate	23.8	2.0	ug/l	25.0	0.824	92	80-120	3	15	Source: PUB1609-01
Matrix Spike Dup Analyzed: 03/02/2011 (11C0081-MSD2)										
Perchlorate	23.7	2.0	ug/l	25.0	0.914	91	80-120	2	15	Source: PUB1611-01

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1610

Sampled: 02/25/11

Received: 02/25/11

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD Relative Percent Difference

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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PUB1610 <Page 4 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1610

Sampled: 02/25/11

Received: 02/25/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 314.0	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

TAL-0013-550 (10/10)

[] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
 [] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
 [] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Page 1 of 1

Client Name/Address: Malcolm Pirnie Inc. 4646 E VanDuren St Ste 400 Phoenix AZ 85008			Project/PO Number: UPCO/3994018				Analysis Required								
Project Manager: Greg Guimond			Phone Number: 602-247-1771				314 perchlorate								
Sampler: Bryan Buchanan			Fax Number: 602-237-0131												
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives									Special Instructions
604 E. Yearling	W	500ml poly	1	4/25/11	16:43	None	X								PUB 1610-01
<div style="position: absolute; left: 0; top: 0; width: 100%; height: 100%; border-left: 1px solid black; border-bottom: 1px solid black; pointer-events: none;"> RB </div>															
Relinquished By:			Date/Time: 2/25/11 18:25		Received By:			Date/Time:			Turnaround Time: (Check)				
Relinquished By:			Date/Time:		Received By:			Date/Time:			same day _____ 72 hours _____ 24 hours _____ 5 days _____ 48 hours _____ normal <input checked="" type="checkbox"/>				
Relinquished By:			Date/Time:		Received in Lab By:			Date/Time: 2/25/11 1825			Sample Integrity: (Check) intact <input checked="" type="checkbox"/> on ice <input checked="" type="checkbox"/>				

Note: By relinquishing samples to TestAmerica, 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.

3.2°C

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO/3994018

Sampled: 02/25/11
Received: 02/25/11
Issued: 03/09/11 16:26

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID

PUB1611-01

CLIENT ID

424 E. Yearling

MATRIX

Water

SAMPLE RECEIPT: Samples were received intact, at 3°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:



TestAmerica Phoenix

Carlene McCutcheon
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1611

Sampled: 02/25/11

Received: 02/25/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUB1611-01 (424 E. Yearling - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11C0081	2.0	ND	1	3/2/2011	3/2/2011	

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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PUB1611 <Page 2 of 5>

ARCADIS U.S., Inc. - Phoenix
 4646 E Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1611

Sampled: 02/25/11
 Received: 02/25/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 11C0081 Extracted: 03/02/11										
Blank Analyzed: 03/02/2011 (11C0081-BLK1)										
Perchlorate	ND	2.0	ug/l							
LCS Analyzed: 03/02/2011 (11C0081-BS1)										
Perchlorate	24.4	NA	ug/l	25.0		98	85-115			
LCS Dup Analyzed: 03/02/2011 (11C0081-BSD1)										
Perchlorate	24.8	NA	ug/l	25.0		99	85-115	2	15	
Duplicate Analyzed: 03/02/2011 (11C0081-DUP1)										
Perchlorate	80.4	10	ug/l		Source: PUB1599-30RE1 78.7			2	15	
Duplicate Analyzed: 03/02/2011 (11C0081-DUP2)										
Perchlorate	ND	2.0	ug/l		Source: PUB1610-01 ND				15	
Matrix Spike Analyzed: 03/02/2011 (11C0081-MS1)										
Perchlorate	24.4	2.0	ug/l	25.0	0.824	94	80-120			
Matrix Spike Analyzed: 03/02/2011 (11C0081-MS2)										
Perchlorate	23.2	2.0	ug/l	25.0	0.914	89	80-120			
Matrix Spike Dup Analyzed: 03/02/2011 (11C0081-MSD1)										
Perchlorate	23.8	2.0	ug/l	25.0	0.824	92	80-120	3	15	
Matrix Spike Dup Analyzed: 03/02/2011 (11C0081-MSD2)										
Perchlorate	23.7	2.0	ug/l	25.0	0.914	91	80-120	2	15	

TestAmerica Phoenix

Carlene McCutcheon
 Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1611

Sampled: 02/25/11

Received: 02/25/11

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD Relative Percent Difference

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced,
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PUB1611 <Page 4 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1611

Sampled: 02/25/11

Received: 02/25/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 314.0	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO/3994018

Sampled: 02/23/11
Received: 02/23/11
Issued: 03/04/11 15:57

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PUB1432-01	520 E. Yearling	Water
SAMPLE RECEIPT:	Samples were received intact, at 1°C, on ice and with chain of custody documentation.	
HOLDING TIMES:	All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.	
PRESERVATION:	Samples requiring preservation were verified prior to sample analysis.	
QA/QC CRITERIA:	All analyses met method criteria, except as noted in the report with data qualifiers.	
COMMENTS:	No significant observations were made.	
SUBCONTRACTED:	Refer to the last page for specific subcontract laboratory information included in this report.	

Reviewed By:



TestAmerica Phoenix

Carlene McCutcheon
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1432

Sampled: 02/23/11

Received: 02/23/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUB1432-01 (520 E. Yearling - Water)								
Reporting Units: mg/l								
Perchlorate	EPA 332.0	11C0100	0.00020	0.0014	2	3/1/2011	3/1/2011	

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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PUB1432 <Page 2 of 5>

ARCADIS U.S., Inc. - Phoenix
 4646 E Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1432

Sampled: 02/23/11

Received: 02/23/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0100 Extracted: 03/01/11										
Blank Analyzed: 03/01/2011 (11C0100-BLK1)										
Perchlorate	ND	0.00010	mg/l							
LCS Analyzed: 03/01/2011 (11C0100-BS1)										
Perchlorate	0.00529	0.00010	mg/l	0.00500		106	80-120			
Matrix Spike Analyzed: 03/01/2011 (11C0100-MS1)										
					Source: IUB2402-05					
Perchlorate	0.00491	0.00010	mg/l	0.00500	ND	98	80-120			
Matrix Spike Dup Analyzed: 03/01/2011 (11C0100-MSD1)										
					Source: IUB2402-05					
Perchlorate	0.00509	0.00010	mg/l	0.00500	ND	102	80-120	3	20	

TestAmerica Phoenix

Carlene McCutcheon
 Project Manager

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ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1432

Sampled: 02/23/11

Received: 02/23/11

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD Relative Percent Difference

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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PUB1432 <Page 4 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1432

Sampled: 02/23/11

Received: 02/23/11

Certification Summary

Subcontracted Laboratories

TestAmerica - Irvine, CA *NELAC Cert #01108CA, California Cert #1197, Arizona Cert #AZ0671, Nevada Cert #CA72-2002-63*

17461 Derian Ave. Suite 100 - Irvine, CA 92614

Method Performed: EPA 332.0

Samples: PUB1432-01

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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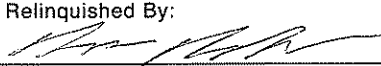

PUB1432 <Page 5 of 5>

CHAIN OF CUSTODY FORM

Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
 Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
 Las Vegas - 2520 E. Sunset, Suite 3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

Page 1 of 1

TAL-0013-550 (12/08)

Client Name/Address: Malcolm Pirnie Inc. 4646 E Van Buren St. Ste 400 Phoenix AZ 85008			Project/ PO Number: JPCO/3994018				Analysis Required													
Project Manager: Greg Guimond			Phone Number: 602-241-1770				Perchlorate 33a													
Sampler: Brian Brockman			Fax Number: 602-231-0131																	
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives														Special Instructions
520 E Yearling	W	500ml poly	1	2/23/11	9:31	None	X													PUB 1432-01
Relinquished By: 			Date/Time: 2/23/11 15:07				Received By:			Date/Time:			Turnaround Time: (Check)							
Relinquished By:			Date/Time:				Received By:			Date/Time:			same day _____ 72 hours _____							
Relinquished By:			Date/Time:				Received By:			Date/Time:			24 hours _____ 5 days _____							
Relinquished By:			Date/Time:				Received in Lab By: 			Date/Time: 2/23-11 1502			48 hours _____ normal <input checked="" type="checkbox"/>							
Relinquished By:			Date/Time:				Received in Lab By:			Date/Time:			Sample Integrity: (Check)							
Relinquished By:			Date/Time:				Received in Lab By:			Date/Time:			intact _____ on ice <input checked="" type="checkbox"/>							

Note: By relinquishing samples to TestAmerica, 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.

.8°

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO/3994018

Sampled: 02/23/11
Received: 02/23/11
Issued: 03/04/11 16:07

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PUB1433-01	218 E. Yearling	Water
SAMPLE RECEIPT:	Samples were received intact, at 1°C, on ice and with chain of custody documentation.	
HOLDING TIMES:	All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.	
PRESERVATION:	Samples requiring preservation were verified prior to sample analysis.	
QA/QC CRITERIA:	All analyses met method criteria, except as noted in the report with data qualifiers.	
COMMENTS:	No significant observations were made.	
SUBCONTRACTED:	Refer to the last page for specific subcontract laboratory information included in this report.	

Reviewed By:



TestAmerica Phoenix

Carlene McCutcheon
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1433

Sampled: 02/23/11

Received: 02/23/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUB1433-01 (218 E. Yearling - Water)								
Reporting Units: mg/l								
Perchlorate	EPA 332.0	11C0287	0.00050	0.0010	5	3/2/2011	3/2/2011	E7

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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PUB1433 <Page 2 of 5>

ARCADIS U.S., Inc. - Phoenix
 4646 E Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1433

Sampled: 02/23/11

Received: 02/23/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0287 Extracted: 03/02/11										
Blank Analyzed: 03/02/2011 (11C0287-BLK1)										
Perchlorate	ND	0.00010	mg/l							
LCS Analyzed: 03/02/2011 (11C0287-BS1)										
Perchlorate	0.00468	0.00010	mg/l	0.00500		94	80-120			
Matrix Spike Analyzed: 03/02/2011 (11C0287-MS1)										
					Source: PUB1433-01					
Perchlorate	0.00534	0.00050	mg/l	0.00500	0.00101	87	80-120			
Matrix Spike Dup Analyzed: 03/02/2011 (11C0287-MSD1)										
					Source: PUB1433-01					
Perchlorate	0.00535	0.00050	mg/l	0.00500	0.00101	87	80-120	0.2	20	

TestAmerica Phoenix

Carlene McCutcheon
 Project Manager

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ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1433

Sampled: 02/23/11

Received: 02/23/11

DATA QUALIFIERS AND DEFINITIONS

- E7** Concentration estimated. Internal standard recoveries did not meet laboratory acceptance criteria.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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PUB1433 <Page 4 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1433

Sampled: 02/23/11

Received: 02/23/11

Certification Summary

Subcontracted Laboratories

TestAmerica - Irvine, CA *NELAC Cert #01108CA, California Cert #1197, Arizona Cert #AZ0671, Nevada Cert #CA72-2002-63*

17461 Derian Ave. Suite 100 - Irvine, CA 92614

Method Performed: EPA 332.0

Samples: PUB1433-01

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced,
except in full, without written permission from TestAmerica.*

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO/3994018

Sampled: 02/23/11
Received: 02/23/11
Issued: 03/04/11 16:12

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PUB1434-01	18 E. Yearling	Water
SAMPLE RECEIPT:	Samples were received intact, at 1°C, on ice and with chain of custody documentation.	
HOLDING TIMES:	All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.	
PRESERVATION:	Samples requiring preservation were verified prior to sample analysis.	
QA/QC CRITERIA:	All analyses met method criteria, except as noted in the report with data qualifiers.	
COMMENTS:	No significant observations were made.	
SUBCONTRACTED:	Refer to the last page for specific subcontract laboratory information included in this report.	

Reviewed By:



TestAmerica Phoenix

Carlene McCutcheon
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1434

Sampled: 02/23/11

Received: 02/23/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUB1434-01 (18 E. Yearling - Water)								
Reporting Units: mg/l								
Perchlorate	EPA 332.0	11C0287	0.00050	0.00099	5	3/2/2011	3/2/2011	E7

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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PUB1434 <Page 2 of 5>

ARCADIS U.S., Inc. - Phoenix
 4646 E Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO/3994018
 Report Number: PUB1434

Sampled: 02/23/11
 Received: 02/23/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0287 Extracted: 03/02/11										
Blank Analyzed: 03/02/2011 (11C0287-BLK1)										
Perchlorate	ND	0.00010	mg/l							
LCS Analyzed: 03/02/2011 (11C0287-BS1)										
Perchlorate	0.00468	0.00010	mg/l	0.00500		94	80-120			
Matrix Spike Analyzed: 03/02/2011 (11C0287-MS1)										
					Source: IUB2680-01					
Perchlorate	0.00534	0.00050	mg/l	0.00500	0.00101	87	80-120			
Matrix Spike Dup Analyzed: 03/02/2011 (11C0287-MSD1)										
					Source: IUB2680-01					
Perchlorate	0.00535	0.00050	mg/l	0.00500	0.00101	87	80-120	0.2	20	

TestAmerica Phoenix

Carlene McCutcheon
 Project Manager

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ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1434

Sampled: 02/23/11

Received: 02/23/11

DATA QUALIFIERS AND DEFINITIONS

- E7** Concentration estimated. Internal standard recoveries did not meet laboratory acceptance criteria.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced,
except in full, without written permission from TestAmerica.*

PUB1434 <Page 4 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1434

Sampled: 02/23/11

Received: 02/23/11

Certification Summary

Subcontracted Laboratories

TestAmerica - Irvine, CA *NELAC Cert #01108CA, California Cert #1197, Arizona Cert #AZ0671, Nevada Cert #CA72-2002-63*

17461 Derian Ave. Suite 100 - Irvine, CA 92614

Method Performed: EPA 332.0

Samples: PUB1434-01

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced,
except in full, without written permission from TestAmerica.*

PUB1434 <Page 5 of 5>

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO/3994018

Sampled: 02/23/11
Received: 02/23/11
Issued: 03/04/11 16:16

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID

PUB1435-01

CLIENT ID

204 E. Yearling

MATRIX

Water

SAMPLE RECEIPT: Samples were received intact, at 1°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Reviewed By:



TestAmerica Phoenix

Carlene McCutcheon
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1435

Sampled: 02/23/11

Received: 02/23/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUB1435-01 (204 E. Yearling - Water)								
Reporting Units: mg/l								
Perchlorate	EPA 332.0	11C0287	0.00050	0.00089	5	3/2/2011	3/2/2011	

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

PUB1435 <Page 2 of 5>

ARCADIS U.S., Inc. - Phoenix
 4646 E Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1435

Sampled: 02/23/11

Received: 02/23/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0287 Extracted: 03/02/11										
Blank Analyzed: 03/02/2011 (11C0287-BLK1)										
Perchlorate	ND	0.00010	mg/l							
LCS Analyzed: 03/02/2011 (11C0287-BS1)										
Perchlorate	0.00468	0.00010	mg/l	0.00500		94	80-120			
Matrix Spike Analyzed: 03/02/2011 (11C0287-MS1)										
					Source: IUB2680-01					
Perchlorate	0.00534	0.00050	mg/l	0.00500	0.00101	87	80-120			
Matrix Spike Dup Analyzed: 03/02/2011 (11C0287-MSD1)										
					Source: IUB2680-01					
Perchlorate	0.00535	0.00050	mg/l	0.00500	0.00101	87	80-120	0.2	20	

TestAmerica Phoenix

Carlene McCutcheon
 Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1435

Sampled: 02/23/11

Received: 02/23/11

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD Relative Percent Difference

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced,
except in full, without written permission from TestAmerica.*

PUB1435 <Page 4 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO/3994018

Report Number: PUB1435

Sampled: 02/23/11

Received: 02/23/11

Certification Summary

Subcontracted Laboratories

TestAmerica - Irvine, CA *NELAC Cert #01108CA, California Cert #1197, Arizona Cert #AZ0671, Nevada Cert #CA72-2002-63*

17461 Derian Ave. Suite 100 - Irvine, CA 92614

Method Performed: EPA 332.0

Samples: PUB1435-01

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Client Project ID: UPCO/3994018
Report Number: PUB1534

TestAmerica Laboratories, Inc.
Sampled: 02/24/11
Received: 02/24/11
Issued: 03/22/11

CASE NARRATIVE

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLE MATRIX	ANALYSES	LABORATORY PERFORMING ANALYSES
PUB1534-01	8 W Yearling	Water	Perchlorate by IC/MS-I	Exova

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: See attached report from subcontracted laboratory for QA/QC information.

OBSERVATIONS: No significant observations were made.

SUBCONTRACTED: One or more samples were subcontracted to Exova, 9240 Santa Fe Springs Rd., Santa Fe Springs, CA 90670 for the analyses listed above. Results are attached.

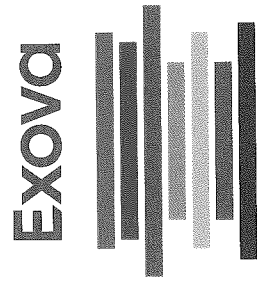
TESTAMERICA - PHOENIX, AZ ()


Tina Paulauskas
Project Manager

PUB1534
Page 1 of 1

Exova
9240 Santa Fe Springs Road
Santa Fe Springs
California
USA
90670

T: +1 (562) 948-2225
F: +1 (562) 948-5850
E: info400@exova.com
W: www.exova.com



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Certificate of Analysis

March 18, 2011

TestAmerica - Phoenix
4625 E Cotton Center Blvd
Bldg 3, Suite 189
Phoenix, AZ 85040

Exova Job No: 129224
Purchase Order: PUB1534
Project Name: Perchlorate Testing
Samples Received: One (1) Sample
Date Received: 03/04/2011

Attn: Carlene McCutcheon

JF


Analysis

Page

Perchlorate by EPA 332

2


Patricia Metzger
Senior Chemist


Samina N. Hussain
Senior Chemist

Perchlorate by EPA 332

Sample ID	Parts per Billion (µg/L)
PUB1534-01A (8 W Yearling - Water)	0.71
Blank	ND

Detection Limit 0.02

Date Analyzed: 03-09-11

Quality Control Summary

Sample ID: PUB1534-01A (8 W Yearling - Water)

Compound	Sample Result	Spike Conc	Spike Result	Spike % Rec	Spike Dup Result	Spike Dup % Rec	Spike RPD
Perchlorate	0.71	5.00	5.60	98	5.42	94	3

Quality Control Limits

Compound	% Recovery	RPD
Perchlorate	80-120	NMT 15

Subcontract Order - TestAmerica Phoenix (PUB1534)

SENDING LABORATORY:


TestAmerica Phoenix
 4625 East Cotton Center Blvd. Ste 189
 Phoenix, AZ 85040
 Phone: (602) 437-3340
 Fax: (602) 454-9303
 Project Manager: Carlene McCutcheon

RECEIVING LABORATORY:


Exova
 9240 Santa Fe Springs Rd.
 Santa Fe Springs, CA 90670
 Phone : (562) 948-2225
 Fax: (562) 948-5850
 Project Location: Arizona
 Receipt Temperature: 3 °C Ice: Y / N

Standard TAT is requested unless specific due date is requested. => Due Date: _____ Initials: _____

Analysis	Units	Expires	Comments
Sample ID: PUB1534-01 (8 W Yearling - Water)			
		Sampled: 02/24/11 15:25	
Perchlorate by IC/MS-I	mg/l	03/24/11 15:25	
<i>Containers Supplied:</i>			
500 ml Poly (A) ✓			


 Released By _____ Date/Time 3/6/11 17:00
 Released By FedEx _____ Date/Time _____

129224


 Received By _____ Date/Time 03-03-11 17:00
 Received By Vanna M By _____ Date/Time 03-04-11 / 18:58

Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
 Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
 Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

THE LEADER IN ENVIRONMENTAL TESTING
 TAL-0013-550 (10/10)

Page 1 of 1

Client Name / Address: Malcolm Pirnie, Inc 4616 E Van Buren St, Ste 400 Phoenix, AZ 85008			Project / PO Number: LR10/3994018				Analysis Required											
Project Manager: Greg Guinnond			Phone Number: 602-241-1770				perched 332											
Sampler: Brian Brockman			Fax Number: 602-231-2131															
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	Special Instructions											
8 W Yearling	W	500ml poly	1	2/24/11	1525	—	x	PUB 1534-01										
BB																		
Relinquished By:			Date / Time: 2/24/11 17:15				Received By:				Date / Time:				Turnaround Time: (Check)			
Relinquished By:			Date / Time:				Received By:				Date / Time:				same day _____ 72 hours _____ 24 hours _____ 5 days _____ 48 hours _____ normal <input checked="" type="checkbox"/>			
Relinquished By:			Date / Time:				Received in Lab By:				Date / Time: 2-24-11 1715				Sample Integrity: (Check) intact <input checked="" type="checkbox"/> on ice <input checked="" type="checkbox"/>			

Note: By relinquishing samples to TestAmerica, 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.

1.2

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Client Project ID: UPCO/3994018

Report Number: PUB1535

TestAmerica Laboratories, Inc.
Sampled: 02/24/11
Received: 02/24/11
Issued: 03/25/11

CASE NARRATIVE

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLE MATRIX	ANALYSES	LABORATORY PERFORMING ANALYSES
PUB1535-01	16 E. Yearling	Water	Perchlorate by IC/MS-I	Exova

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

HOLDING TIMES: Holding Times were met.

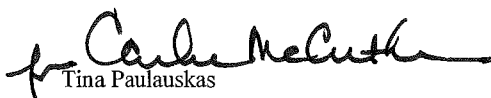
PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: See attached report from subcontracted laboratory for QA/QC information.

OBSERVATIONS: No significant observations were made.

SUBCONTRACTED: One or more samples were subcontracted to Exova, 9240 Santa Fe Springs Rd., Santa Fe Springs, CA 90670 for the analyses listed above. Results are attached.

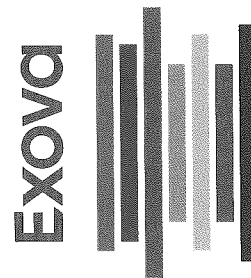
TESTAMERICA - PHOENIX, AZ ()


Tina Paulauskas

Project Manager

Exova
9240 Santa Fe Springs Road
Santa Fe Springs
California
USA
90670

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F: +1 (562) 948-5850
E: info400@exova.com
W: www.exova.com



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March 18, 2011

TestAmerica - Phoenix
4625 E Cotton Center Blvd
Bldg 3, Suite 189
Phoenix, AZ 85040

Exova Job No: 129225
Purchase Order: PUB1535
Project Name: Perchlorate Testing
Samples Received: One (1) Sample
Date Received: 03/04/2011

Attn: Carlene McCutcheon

JF


Analysis

Page

Perchlorate by EPA 332

2


Patricia Metzger
Senior Chemist


Samina N. Hussain
Senior Chemist

Perchlorate by EPA 332

<u>Sample ID</u>	<u>Parts per Billion (µg/L)</u>
PUB1535-01A (16 E. Yearling - Water)	1.8
Blank	ND
Detection Limit	0.02
Date Analyzed: 03-09-11	

Quality Control Summary

Sample ID: Batch QC

<u>Compound</u>	<u>Sample Result</u>	<u>Spike Conc</u>	<u>Spike Result</u>	<u>Spike % Rec</u>	<u>Spike Dup Result</u>	<u>Spike Dup % Rec</u>	<u>Spike RPD</u>
Perchlorate	0.71	5.00	5.60	98	5.42	94	3

Quality Control Limits

<u>Compound</u>	<u>% Recovery</u>	<u>RPD</u>
Perchlorate	80-120	NMT 15

Subcontract Order - TestAmerica Phoenix (PUB1535)

SENDING LABORATORY:

TestAmerica Phoenix
4625 East Cotton Center Blvd. Ste 189
Phoenix, AZ 85040
Phone: (602) 437-3340
Fax: (602) 454-9303
Project Manager: Carlene McCutcheon

RECEIVING LABORATORY:

Exova
9240 Santa Fe Springs Rd.
Santa Fe Springs, CA 90670
Phone : (562) 948-2225
Fax: (562) 948-5850
Project Location: Arizona
Receipt Temperature: 3 °C Ice: (Y) / N

Standard TAT is requested unless specific due date is requested. => Due Date: _____ Initials: _____

Analysis	Units	Expires	Comments
----------	-------	---------	----------

Sample ID: PUB1535-01 (16 E. Yearling - Water)

Sampled: 02/24/11 15:35

Perchlorate by IC/MS-I	mg/l	03/24/11 15:35	
------------------------	------	----------------	--

Containers Supplied:

500 ml Poly (A) ~

129225

[Signature]
Released By
Date/Time: 3/5/11 1700

FedEx
Released By
Date/Time: _____

FedEx 03-03-11 17:00
Received By
Date/Time

[Signature]
Received By
Date/Time: 03-04-11/A8:58

Client Name / Address:		Project / PO Number:		Analysis Required					Turnaround Time: (Check)					
Malcolm Pirnie, Inc. 4616 E. Van Buren St, Ste 400 Phoenix, AZ 85008		UPCO/3041018							same day	72 hours				
Project Manager:		Phone Number:		Preservatives							24 hours	5 days		
Greg Guimond		602-241-1770		-							48 hours	normal	X	
Sampler:		Fax Number:		# of Cont.	Sampling Date	Sampling Time						Sample Integrity: (Check)		
Brian Brockman		602-231-0131		1	2/24/11	1535						intact	on ice	X
Sample Matrix	Container Type													
W	500 ml poly													
Sample Description														
16 E. Yearling														
BB														
Relinquished By:		Date / Time:		Received By:		Date / Time:								
<i>[Signature]</i>		2/24/11 17:15		<i>[Signature]</i>		2/24/11 17:15								
Relinquished By:		Date / Time:		Received By:		Date / Time:								
<i>[Signature]</i>				<i>[Signature]</i>										
Relinquished By:		Date / Time:		Received in Lab By:		Date / Time:								
<i>[Signature]</i>				<i>[Signature]</i>		2/24/11 17:15								

Note: By relinquishing samples to TestAmerica, 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.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Client Project ID: UPCCO/3994018
Report Number: PUBI.536

Sampled: 02/24/11
TestAmerica
Rede Laboratory
Issued: 03/22/11

CASE NARRATIVE

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLE MATRIX	ANALYSES	LABORATORY PERFORMING ANALYSES
PUBI536-01	25825 N 1st Place	Water	Perchlorate by IC/MS-I	Exova

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: See attached report from subcontracted laboratory for QA/QC information.

OBSERVATIONS: No significant observations were made.

SUBCONTRACTED: One or more samples were subcontracted to Exova, 9240 Santa Fe Springs Rd., Santa Fe Springs, CA 90670 for the analyses listed above. Results are attached.

TESTAMERICA - PHOENIX, AZ 0

Tina Paulauskas
Project Manager
Tina Paulauskas

PUBI536

Page 1 of 1

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Client Project ID: UPCO/3994018
Report Number: PUB1536

Sampled: 02/24/11
Received: 02/24/11
Issued: 03/22/11

CASE NARRATIVE

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLE MATRIX	ANALYSES	LABORATORY PERFORMING ANALYSES
PUB1536-01	25825 N 1st Place	Water	Perchlorate by IC/MS-I	Exova

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: See attached report from subcontracted laboratory for QA/QC information.

OBSERVATIONS: No significant observations were made.

SUBCONTRACTED: One or more samples were subcontracted to Exova, 9240 Santa Fe Springs Rd., Santa Fe Springs, CA 90670 for the analyses listed above. Results are attached.

TESTAMERICA - PHOENIX, AZ ()

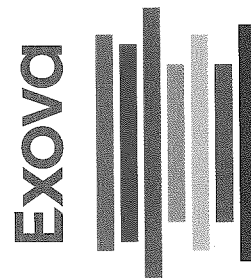
Tina Paulauskas
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica, Inc.

PUB1536
Page 1 of 1

Exova
9240 Santa Fe Springs Road
Santa Fe Springs
California
USA
90670

T: +1 (562) 948-2225
F: +1 (562) 948-5850
E: info400@exova.com
W: www.exova.com



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Certificate of Analysis

March 18, 2011

TestAmerica - Phoenix
4625 E Cotton Center Blvd
Bldg 3, Suite 189
Phoenix, AZ 85040

Exova Job No: 129222
Purchase Order: PUB1536
Project Name: Perchlorate Testing
Samples Received: One (1) Sample
Date Received: 03/04/2011

Attn: Carlene McCutcheon

JF


Analysis

Page

Perchlorate by EPA 332

2


Patricia Metzger
Senior Chemist


Samina N. Hussain
Senior Chemist

Perchlorate by EPA 332

Sample ID	Parts per Billion (µg/L)
PUB1536-01A (25825 N 1st Place - Water)	1.0
Blank	ND

Detection Limit 0.02

Date Analyzed: 03-09-11

Quality Control Summary

Sample ID: Batch QC

Compound	Sample Result	Spike Conc	Spike Result	Spike % Rec	Spike Dup Result	Spike Dup % Rec	Spike RPD
Perchlorate	0.71	5.00	5.60	98	5.42	94	3

Quality Control Limits

Compound	% Recovery	RPD
Perchlorate	80-120	NMT 15

Subcontract Order - TestAmerica Phoenix (PUB1536)

SENDING LABORATORY:

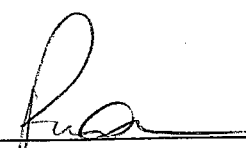
TestAmerica Phoenix
 4625 East Cotton Center Blvd. Ste 189
 Phoenix, AZ 85040
 Phone: (602) 437-3340
 Fax: (602) 454-9303
 Project Manager: Carlene McCutcheon

RECEIVING LABORATORY:

Exova
 9240 Santa Fe Springs Rd.
 Santa Fe Springs, CA 90670
 Phone : (562) 948-2225
 Fax: (562) 948-5850
 Project Location: Arizona
 Receipt Temperature: 3 °C Ice: (Y) / N

Standard TAT is requested unless specific due date is requested. => Due Date: _____ Initials: _____

Analysis	Units	Expires	Comments
Sample ID: PUB1536-01 (25825 N 1st Place - Water)			
Perchlorate by IC/MS-I	mg/l	03/24/11 15:45	Sampled: 02/24/11 15:45
<i>Containers Supplied:</i> 500 ml Poly (A) ~			


 Released By _____ Date/Time 3/3/11 17:00
 Released By FedEx _____ Date/Time _____

129222

FedEx 03-03-11 17:00
 Received By _____ Date/Time _____
Karen M. By 03-04-11 / 18:58
 Received By _____ Date/Time _____

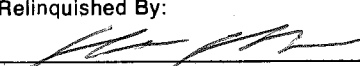

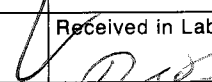
Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
 Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
 Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

THE LEADER IN ENVIRONMENTAL TESTING

TAL-0013-550 (10/10)

Page 1 of 1

Client Name/Address: Malcolm Pienie, Inc 4646 E. Van Buren St, Ste 430 Phoenix, AZ 85008			Project/PO Number: UPCO/3494018				Analysis Required															
Project Manager: Greg Guimond			Phone Number: 602-241-1770				purchase 332 X															
Sampler: Brian Brockman			Fax Number: 602-231-0731																			
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives																Special Instructions
25825 N 1st place	W	500ml poly	1	2/24/11	1545	-	X															PUB 1536-01
BB																						

Relinquished By: 	Date/Time: 2/24/11 17:15	Received By: 	Date/Time:	Turnaround Time: (Check)
Relinquished By:	Date/Time:	Received By:	Date/Time:	same day _____ 72 hours _____
Relinquished By:	Date/Time:	Received in Lab By: 	Date/Time: 2-24-11 17:15	24 hours _____ 5 days _____
				48 hours _____ normal <u>X</u>
				Sample Integrity: (Check)
				intact <u>P</u> on ice <u>X</u>

Note: By relinquishing samples to TestAmerica, 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.

1.2°C

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Client Project ID: UPCO/3994018
Report Number: PUB1537

TestAmerica Laboratories, Inc.
Sampled: 02/24/11
Received: 02/24/11
Issued: 03/25/11

CASE NARRATIVE

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLE MATRIX	ANALYSES	LABORATORY PERFORMING ANALYSES
PUB1537-01	25903 N 2nd St	Water	Perchlorate by IC/MS-I	Exova

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

HOLDING TIMES: Holding Times were met.

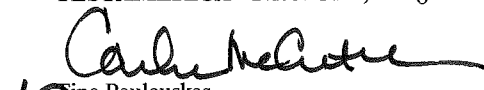
PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: See attached report from subcontracted laboratory for QA/QC information.

OBSERVATIONS: No significant observations were made.

SUBCONTRACTED: One or more samples were subcontracted to Exova, 9240 Santa Fe Springs Rd., Santa Fe Springs, CA 90670 for the analyses listed above. Results are attached.

TESTAMERICA - PHOENIX, AZ 0


Tina Paulauskas
Project Manager

PUB1537
Page 1 of 1

Exova
9240 Santa Fe Springs Road
Santa Fe Springs
California
USA
90670

T: +1 (562) 948-2225
F: +1 (562) 948-5850
E: info400@exova.com
W: www.exova.com



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March 18, 2011

TestAmerica - Phoenix
4625 E Cotton Center Blvd
Bldg 3, Suite 189
Phoenix, AZ 85040

Exova Job No: 129229
Purchase Order: PUB1537
Project Name: Perchlorate Testing
Samples Received: One (1) Sample
Date Received: 03/04/2011

Attn: Carlene McCutcheon


JF

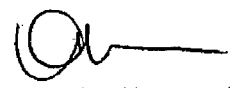
Analysis

Page

Perchlorate by EPA 332

2


Patricia Metzger
Senior Chemist


Samina N. Hussain
Senior Chemist

Perchlorate by EPA 332

<u>Sample ID</u>	<u>Parts per Billion (µg/L)</u>
PUB1537-01A (25903 N 2nd St - Water)	0.88
Blank	ND
Detection Limit	0.02

Date Analyzed: 03-09-11

Quality Control Summary

Sample ID: Batch QC

<u>Compound</u>	<u>Sample Result</u>	<u>Spike Conc</u>	<u>Spike Result</u>	<u>Spike % Rec</u>	<u>Spike Dup Result</u>	<u>Spike Dup % Rec</u>	<u>Spike RPD</u>
Perchlorate	0.71	5.00	5.60	98	5.42	94	3

Quality Control Limits

<u>Compound</u>	<u>% Recovery</u>	<u>RPD</u>
Perchlorate	80-120	NMT 15

Subcontract Order - TestAmerica Phoenix (PUB1537)

SENDING LABORATORY:


TestAmerica Phoenix
 4625 East Cotton Center Blvd. Ste 189
 Phoenix, AZ 85040
 Phone: (602) 437-3340
 Fax: (602) 454-9303
 Project Manager: Carlene McCutcheon

RECEIVING LABORATORY:

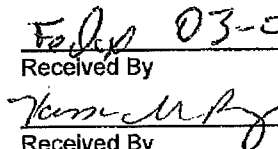
Exova
 9240 Santa Fe Springs Rd.
 Santa Fe Springs, CA 90670
 Phone: (562) 948-2225
 Fax: (562) 948-5850
 Project Location: Arizona
 Receipt Temperature: 3 °C Ice: Y / N

Standard TAT is requested unless specific due date is requested. => Due Date: _____ Initials: _____

Analysis	Units	Expires	Comments
Sample ID: PUB1537-01 (25903 N 2nd St - Water) Sampled: 02/24/11 15:55			
Perchlorate by IC/MS-I	mg/l	03/24/11 15:55	
Containers Supplied: 500 ml Poly (A) ~			


 Released By _____ Date/Time 3/5/11 17:00
 Released By FedEx _____ Date/Time _____

129229


 Received By _____ Date/Time 03-03-11 17:00
 Received By Kennedy _____ Date/Time 03-04-11 18:58

- Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
- Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
- Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

THE LEADER IN ENVIRONMENTAL TESTING
TAL-0013-550 (10/10)

Client Name/Address: <i>Malcolm Pirnie Inc 4646 E Van Buren St Ste 400 Phoenix AZ 85008</i>			Project/ PO Number: <i>UPCW/3994018</i>				Analysis Required											
Project Manager: <i>Greg Guinnard</i>			Phone Number: <i>602-241-1790</i>				<i>perchlorate 332</i>											
Sampler: <i>Barrett Brochman</i>			Fax Number: <i>602-231-0131</i>															
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives											Special Instructions	
<i>25903 N 2nd St</i>	<i>W</i>	<i>500ml pty</i>	<i>1</i>	<i>2/24/11</i>	<i>1555</i>	<i>—</i>	<i>X</i>											<i>PVIB 1537-01</i>
<i>B3B</i>																		
Relinquished By: <i>[Signature]</i>			Date/ Time: <i>2/24/11 17:15</i>		Received By: <i>[Signature]</i>			Date/ Time:			Turnaround Time: (Check)							
Relinquished By:			Date/ Time:		Received By:			Date/ Time:			same day _____		72 hours _____					
Relinquished By:			Date/ Time:		Received in Lab By: <i>[Signature]</i>			Date/ Time: <i>2-24-11 1715</i>			24 hours _____		5 days _____					
Relinquished By:			Date/ Time:		Received in Lab By:			Date/ Time:			48 hours _____		normal _____					
Relinquished By:			Date/ Time:		Received in Lab By:			Date/ Time:			Sample Integrity: (Check)		intact <input checked="" type="checkbox"/>		on ice <input checked="" type="checkbox"/>			

Note: By relinquishing samples to TestAmerica, 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.

1.20

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Client Project ID: UPCO/3994018

Report Number: PUB1612

TestAmerica Laboratories, Inc.
Sampled: 02/25/11
Received: 02/25/11
Issued: 03/25/11

CASE NARRATIVE

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLE MATRIX	ANALYSES	LABORATORY PERFORMING ANALYSES
PUB1612-01	424 E. Yearling	Water	Perchlorate by IC/MS-I	Exova

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: See attached report from subcontracted laboratory for QA/QC information.

OBSERVATIONS: No significant observations were made.

SUBCONTRACTED: One or more samples were subcontracted to Exova, 9240 Santa Fe Springs Rd., Santa Fe Springs, CA 90670 for the analyses listed above. Results are attached.

TESTAMERICA - PHOENIX, AZ ()



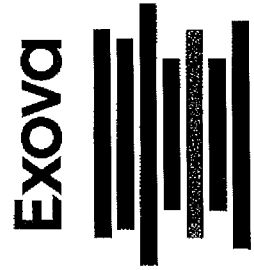
Tina Paulauskas
Project Manager

PUB1612

Page 1 of 1

Exova
9240 Santa Fe Springs Road
Santa Fe Springs
California
USA
90670

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W: www.exova.com



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March 18, 2011

TestAmerica - Phoenix
4625 E Cotton Center Blvd
Bldg 3, Suite 189
Phoenix, AZ 85040

Exova Job No: 129234
Purchase Order: PUB1612
Project Name: Perchlorate Testing
Samples Received: One (1) Samples
Date Received: 03/04/2011

Attn: Carlene McCutcheon

JF

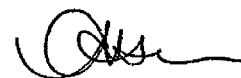
Analysis

Page

Perchlorate by EPA 332

2


Patricia Metzger
Senior Chemist


Samina N. Hussain
Senior Chemist

Perchlorate by EPA 332

<u>Sample ID</u>	<u>Parts per Billion (µg/L)</u>
PUB1612-01A (424 E. Yearling - Water)	1.7
Blank	ND
Detection Limit	0.02

Date Analyzed: 03-09-11

Quality Control Summary

Sample ID: Batch QC

<u>Compound</u>	<u>Sample Result</u>	<u>Spike Conc</u>	<u>Spike Result</u>	<u>Spike % Rec</u>	<u>Spike Dup Result</u>	<u>Spike Dup % Rec</u>	<u>Spike RPD</u>
Perchlorate	0.71	5.00	5.60	98	5.42	94	3

Quality Control Limits

<u>Compound</u>	<u>% Recovery</u>	<u>RPD</u>
Perchlorate	80-120	NMT 15

Subcontract Order - TestAmerica Phoenix (PUB1612)

SENDING LABORATORY:


TestAmerica Phoenix
 4625 East Cotton Center Blvd. Ste 189
 Phoenix, AZ 85040
 Phone: (602) 437-3340
 Fax: (602) 454-9303
 Project Manager: Carlene McCutcheon

RECEIVING LABORATORY:

Exova
 9240 Santa Fe Springs Rd.
 Santa Fe Springs, CA 90670
 Phone : (562) 948-2225
 Fax: (562) 948-5850
 Project Location: Arizona
 Receipt Temperature: 7 °C Ice: Y / N

Standard TAT is requested unless specific due date is requested. ⇒ Due Date: _____ Initials: _____

Analysis	Units	Expires	Comments
Sample ID: PUB1612-01 (424 E. Yearling - Water)			
Perchlorate by IC/MS-I	mg/l	03/25/11 16:30	Sampled: 02/25/11 16:30
<i>Containers Supplied:</i> 250 ml Poly (A) ✓			



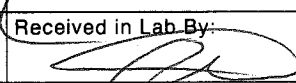

 Released By _____ Date/Time 3/3/11 1700
 Released By FedEx _____ Date/Time _____

129234

Received By FedEx _____ Date/Time 03-03-11 17:00
 Received By Kisha M. By _____ Date/Time 03-04-11 17:58

THE LEADER IN ENVIRONMENTAL TESTING
TAL-0013-550 (10/10)

[] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
 [] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
 [] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Client Name / Address: Malcolm Pirnie Inc 4640 E Van Buren St Ste 400 Phoenix AZ 85008			Project / PO Number: VPCO / 8994016				Analysis Required										
Project Manager: Greg Simmons			Phone Number: 602-291-1770				332 peach/tonate										
Sampler: Brian Bachman			Fax Number: 602-231-0131														
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	Special Instructions										
429 E. Yeading	W	500ml poly	1	2/23/11	16:30	None	X	PUB 1612-01									
Pub																	
Relinquished By: 			Date / Time: 2/25/11 15:20		Received By: 			Date / Time:			Turnaround Time: (Check)						
Relinquished By:			Date / Time:		Received By:			Date / Time:			same day _____ 72 hours _____						
Relinquished By:			Date / Time:		Received in Lab By: 			Date / Time: 2/25/11 18:20			24 hours _____ 5 days _____ 48 hours _____ normal <input checked="" type="checkbox"/>						
Relinquished By:			Date / Time:		Received in Lab By:			Date / Time:			Sample Integrity: (Check) intact <input checked="" type="checkbox"/> on ice <input checked="" type="checkbox"/>						

Note: By relinquishing samples to TestAmerica, 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.

3.2°C

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Client Project ID: UPCO/3994018

Report Number: PUB1613

TestAmerica Laboratories, Inc.
Sampled: 02/25/11
Received: 02/25/11
Issued: 03/25/11

CASE NARRATIVE

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLE MATRIX	ANALYSES	LABORATORY PERFORMING ANALYSES
PUB1613-01	604-616 E. Yearling	Water	Perchlorate by IC/MS-I	Exova

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: See attached report from subcontracted laboratory for QA/QC information.

OBSERVATIONS: No significant observations were made.

SUBCONTRACTED: One or more samples were subcontracted to Exova, 9240 Santa Fe Springs Rd., Santa Fe Springs, CA 90670 for the analyses listed above. Results are attached.

TESTAMERICA - PHOENIX, AZ ()


Tina Paulauskas

Project Manager

PUB1613

Page 1 of 1

Exova
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USA
90670

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W: www.exova.com



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March 18, 2011

TestAmerica - Phoenix
4625 E Cotton Center Blvd
Bldg 3, Suite 189
Phoenix, AZ 85040

Exova Job No: 129235
Purchase Order: PUB1613
Project Name: Perchlorate Testing
Samples Received: One (1) Sample
Date Received: 03/04/2011

Attn: Carlene McCutcheon

JF

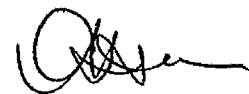
Analysis

Page

Perchlorate by EPA 332

2


Patricia Metzger
Senior Chemist


Samina N. Hussain
Senior Chemist

Perchlorate by EPA 332

<u>Sample ID</u>	<u>Parts per Billion (µg/L)</u>
PUB1613-01A (604 E. Yearling - Water)	1.1
Blank	ND
Detection Limit	0.02

Date Analyzed: 03-09-11

Quality Control Summary

Sample ID: Batch QC

<u>Compound</u>	<u>Sample Result</u>	<u>Spike Conc</u>	<u>Spike Result</u>	<u>Spike % Rec</u>	<u>Spike Dup Result</u>	<u>Spike Dup % Rec</u>	<u>Spike RPD</u>
Perchlorate	0.71	5.00	5.60	98	5.42	94	3

Quality Control Limits

<u>Compound</u>	<u>% Recovery</u>	<u>RPD</u>
Perchlorate	80-120	NMT 15

Subcontract Order - TestAmerica Phoenix (PUB1613)

SENDING LABORATORY:

TestAmerica Phoenix
 4625 East Cotton Center Blvd. Ste 189
 Phoenix, AZ 85040
 Phone: (602) 437-3340
 Fax: (602) 454-9303
 Project Manager: Carlene McCutcheon


RECEIVING LABORATORY:

Exova
 9240 Santa Fe Springs Rd.
 Santa Fe Springs, CA 90670
 Phone : (562) 948-2225
 Fax: (562) 948-5850
 Project Location: Arizona
 Receipt Temperature: 3 °C Ice: (Y) / N

Standard TAT is requested unless specific due date is requested. => Due Date: _____ Initials: _____

Analysis	Units	Expires	Comments
Sample ID: PUB1613-01 (604 E. Yearling - Water)			
Perchlorate by IC/MS-I	mg/l	03/25/11 16:45	Sampled: 02/25/11 16:45
<i>Containers Supplied:</i>			
250 ml Poly (A) ~			

1292 35



 Released By

3/2/11 17:00

 Date/Time

FedEx

 Released By

 Date/Time

FedEx 03-03-11 17:00

 Received By Date/Time



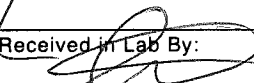
Theresa M. Ry 03-04-11 18:58

 Received By Date/Time

THE LEADER IN ENVIRONMENTAL TESTING
TAL-0013-550 (10/10)

[] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
 [] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
 [] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Page 1 of 1

Client Name/Address: Malcolm Prime Inc. 4646 E Van Buren St. Ste 400 Phoenix AZ 85008			Project/PO Number: VPCO/3994018				Analysis Required															
Project Manager: Greg Sumner			Phone Number: 602-241-1770				326 perchlorate															
Sampler: Berman Brochner			Fax Number: 602-251-0131																			
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives																Special Instructions
604 E. Yearling	W	500ml poly	1	2/25/11	16:45	None	X															PUB 1613-01
BB																						
Relinquished By: 			Date/Time: 2/25/11 18:25				Received By: 			Date/Time:				Turnaround Time: (Check)								
Relinquished By:			Date/Time:				Received By:			Date/Time:				24 hours _____		72 hours _____		5 days _____		normal <input checked="" type="checkbox"/>		
Relinquished By:			Date/Time:				Received in Lab By: 			Date/Time: 2/25/11 1825				Sample Integrity: (Check)		intact <input checked="" type="checkbox"/>		on ice <input checked="" type="checkbox"/>				

Note: By relinquishing samples to TestAmerica, 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.

3.2°C

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Client Project ID: UPCO/3994018

Report Number: PUB1614

TestAmerica Laboratories, Inc.
Sampled: 02/25/11
Received: 02/25/11
Issued: 03/25/11

CASE NARRATIVE

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLE MATRIX	ANALYSES	LABORATORY PERFORMING ANALYSES
PUB1614-01	412 E. Yearling	Water	Perchlorate by IC/MS-I	Exova

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: See attached report from subcontracted laboratory for QA/QC information.

OBSERVATIONS: No significant observations were made.

SUBCONTRACTED: One or more samples were subcontracted to Exova, 9240 Santa Fe Springs Rd., Santa Fe Springs, CA 90670 for the analyses listed above. Results are attached.

TESTAMERICA - PHOENIX, AZ 0


Tina Paulauskas
Project Manager

PUB1614
Page 1 of 1

Exova
9240 Santa Fe Springs Road
Santa Fe Springs
California
USA
90670

T: +1 (562) 948-2225
F: +1 (562) 948-5850
E: info400@exova.com
W: www.exova.com



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March 18, 2011

TestAmerica - Phoenix
4625 E Cotton Center Blvd
Bldg 3, Suite 189
Phoenix, AZ 85040

Exova Job No: 129228
Purchase Order: PUB1614
Project Name: Perchlorate Testing
Samples Received: One (1) Sample
Date Received: 03/04/2011

Attn: Carlene McCutcheon

JF

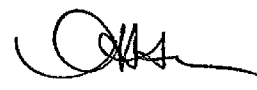
Analysis

Page

Perchlorate by EPA 332

2


Patricia Metzger
Senior Chemist


Samina N. Hussain
Senior Chemist

Perchlorate by EPA 332

<u>Sample ID</u>	<u>Parts per Billion (µg/L)</u>
PUB1614-01A (412 E. Yearling - Water)	1.3
Blank	ND
Detection Limit	0.02

Date Analyzed: 03-09-11

Quality Control Summary

Sample ID: Batch QC

<u>Compound</u>	<u>Sample Result</u>	<u>Spike Conc</u>	<u>Spike Result</u>	<u>Spike % Rec</u>	<u>Spike Dup Result</u>	<u>Spike Dup % Rec</u>	<u>Spike RPD</u>
Perchlorate	0.71	5.00	5.60	98	5.42	94	3

Quality Control Limits

<u>Compound</u>	<u>% Recovery</u>	<u>RPD</u>
Perchlorate	80-120	NMT 15

Subcontract Order - TestAmerica Phoenix (PUB1614)

SENDING LABORATORY:

TestAmerica Phoenix
 4625 East Cotton Center Blvd. Ste 189
 Phoenix, AZ 85040
 Phone: (602) 437-3340
 Fax: (602) 454-9303
 Project Manager: Carlene McCutcheon

RECEIVING LABORATORY:

Exova
 9240 Santa Fe Springs Rd.
 Santa Fe Springs, CA 90670
 Phone : (562) 948-2225
 Fax: (562) 948-5850
 Project Location: Arizona
 Receipt Temperature: 3 °C Ice: Y / N

Standard TAT is requested unless specific due date is requested. => Due Date: _____ Initials: _____


Analysis	Units	Expires	Comments
----------	-------	---------	----------

Sample ID: PUB1614-01 (412 E. Yearling - Water)

Sampled: 02/25/11 16:20

Perchlorate by IC/MS-I	mg/l	03/25/11 16:20	
------------------------	------	----------------	--

Containers Supplied:
 250 ml Poly (A) ~

 3/3/11 1700
 Released By Date/Time

FedEx _____
 Released By Date/Time

FedEx 03-03-11 17:00
 Received By Date/Time

Thomas M. Ry 03-04-11 / 18:58
 Received By Date/Time

129228

ARCADIS U.S., Inc. - Phoenix
4646 E Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Client Project ID: UPCO/3994018
Report Number: PUB1615

TestAmerica Laboratories, Inc.
Sampled: 02/25/11
Received: 02/25/11
Issued: 03/25/11

CASE NARRATIVE

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLE MATRIX	ANALYSES	LABORATORY PERFORMING ANALYSES
PUB1615-01	122 W. Yearling	Water	Perchlorate by IC/MS-I	Exova

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: See attached report from subcontracted laboratory for QA/QC information.

OBSERVATIONS: No significant observations were made.

SUBCONTRACTED: One or more samples were subcontracted to Exova, 9240 Santa Fe Springs Rd., Santa Fe Springs, CA 90670 for the analyses listed above. Results are attached.

TESTAMERICA - PHOENIX, AZ ()



Tina Paulauskas
Project Manager

Exova
9240 Santa Fe Springs Road
Santa Fe Springs
California
USA
90670

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F: +1 (562) 948-5850
E: info400@exova.com
W: www.exova.com



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March 18, 2011

TestAmerica - Phoenix
4625 E Cotton Center Blvd
Bldg 3, Suite 189
Phoenix, AZ 85040

Exova Job No: 129227
Purchase Order: PUB1615
Project Name: Perchlorate Testing
Samples Received: One (1) Sample
Date Received: 03/04/2011

Attn: Carlene McCutcheon


JF


Analysis

Page

Perchlorate by EPA 332

2


Patricia Metzger
Senior Chemist


Samina N. Hussain
Senior Chemist

Perchlorate by EPA 332

<u>Sample ID</u>	<u>Parts per Billion (µg/L)</u>
PUB1615-01A (122 W. Yearling - Water)	0.68
Blank	ND
Detection Limit	0.02

Date Analyzed: 03-09-11

Quality Control Summary

Sample ID: Batch QC

<u>Compound</u>	<u>Sample Result</u>	<u>Spike Conc</u>	<u>Spike Result</u>	<u>Spike % Rec</u>	<u>Spike Dup Result</u>	<u>Spike Dup % Rec</u>	<u>Spike RPD</u>
Perchlorate	0.71	5.00	5.60	98	5.42	94	3

Quality Control Limits

<u>Compound</u>	<u>% Recovery</u>	<u>RPD</u>
Perchlorate	80-120	NMT 15

Subcontract Order - TestAmerica Phoenix (PUB1615)

SENDING LABORATORY:


TestAmerica Phoenix
 4625 East Cotton Center Blvd. Ste 189
 Phoenix, AZ 85040
 Phone: (602) 437-3340
 Fax: (602) 454-9303
 Project Manager: Carlene McCutcheon

RECEIVING LABORATORY:

Exova
 9240 Santa Fe Springs Rd.
 Santa Fe Springs, CA 90670
 Phone : (562) 948-2225
 Fax: (562) 948-5850
 Project Location: Arizona
 Receipt Temperature: 3 °C Ice: (Y) / N

Standard TAT is requested unless specific due date is requested. => Due Date: _____ Initials: _____

Analysis	Units	Expires	Comments
Sample ID: PUB1615-01 (122 W. Yearling - Water)			
Perchlorate by IC/MS-I	mg/l	03/25/11 16:05	Sampled: 02/25/11 16:05
<i>Containers Supplied:</i> 250 ml Poly (A) <input checked="" type="checkbox"/>			


 Released By _____ Date/Time 3/3/11 1700
 Released By Fedix _____ Date/Time _____

129227

Received By Fedix Date/Time 03-03-11 17:00
 Received By Yvonne M. King Date/Time 03-04-11 18:58

Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
 Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
 Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

THE LEADER IN ENVIRONMENTAL TESTING
 TAL-0013-550 (10/10)

Client Name/Address: Malcolm Pirnie, Inc 4646 W. Van Buren St Ste 400 Phoenix AZ 85006			Project/PO Number: VPCO/399408				Analysis Required								
Project Manager: Greg Gammard			Phone Number: 602-271-1770				352 perchlorate								
Sampler: Brian Beckman			Fax Number: 602-231-0131												
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives									Special Instructions
122 W. Yearling	W	570ml poly	1	7/25/10	16:05	None	X								PUB 1615-01
BR															
Relinquished By: <i>[Signature]</i>			Date/Time: 7/25/11 18:10		Received By: <i>[Signature]</i>			Date/Time:			Turnaround Time: (Check)				
Relinquished By:			Date/Time:		Received By:			Date/Time:			same day _____ 72 hours _____ 24 hours _____ 5 days _____ 48 hours _____ normal <input checked="" type="checkbox"/>				
Relinquished By:			Date/Time:		Received in Lab. By: <i>[Signature]</i>			Date/Time: 7/25/11 1810			Sample Integrity: (Check) intact <input checked="" type="checkbox"/> on ice <input checked="" type="checkbox"/>				

Note: By relinquishing samples to TestAmerica, 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.

3.2°C

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO-3994018

Sampled: 07/26/11
Received: 07/26/11
Issued: 07/31/11 09:13

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PUG1612-01	218 E. Yearling	Water
SAMPLE RECEIPT:	Samples were received intact, at 3°C, on ice and with chain of custody documentation.	
HOLDING TIMES:	All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.	
PRESERVATION:	Samples requiring preservation were verified prior to sample analysis.	
QA/QC CRITERIA:	All analyses met method criteria, except as noted in the report with data qualifiers.	
COMMENTS:	No significant observations were made.	
SUBCONTRACTED:	No analyses were subcontracted to an outside laboratory.	

Reviewed By:



TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1612

Sampled: 07/26/11

Received: 07/26/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUG1612-01 (218 E.Yearling - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11G1033	2.0	ND	1	7/28/2011	7/28/2011	

TestAmerica Phoenix

Tina Paulauskas
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

PUG1612 <Page 2 of 5>

ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO-3994018
 Report Number: PUG1612

Sampled: 07/26/11
 Received: 07/26/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11G1033 Extracted: 07/28/11										
Blank Analyzed: 07/28/2011 (11G1033-BLK1)										
Perchlorate	ND	2.0	ug/l							
LCS Analyzed: 07/28/2011 (11G1033-BS1)										
Perchlorate	24.9	2.0	ug/l	25.0		100	85-115			
LCS Dup Analyzed: 07/28/2011 (11G1033-BSD1)										
Perchlorate	25.0	2.0	ug/l	25.0		100	85-115	0.3	15	
Duplicate Analyzed: 07/28/2011 (11G1033-DUP1)										
Perchlorate	1.35	2.0	ug/l					38	15	R9
Matrix Spike Analyzed: 07/28/2011 (11G1033-MS1)										
Perchlorate	24.4	2.0	ug/l	25.0	1.23	93	80-120			
Matrix Spike Dup Analyzed: 07/28/2011 (11G1033-MSD1)										
Perchlorate	23.9	2.0	ug/l	25.0	1.23	91	80-120	2	15	

TestAmerica Phoenix

Tina Paulauskas
 Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1612

Sampled: 07/26/11

Received: 07/26/11

DATA QUALIFIERS AND DEFINITIONS

- R9** Sample RPD exceeded the laboratory acceptance limit
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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except in full, without written permission from TestAmerica.*

PUG1612 <Page 4 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1612

Sampled: 07/26/11

Received: 07/26/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 314.0	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

Tina Paulauskas
Project Manager

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO-3994018

Sampled: 07/26/11
Received: 07/26/11
Issued: 07/31/11 08:56

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID

PUG1629-01

CLIENT ID

122 W. Yearling

MATRIX

Water

SAMPLE RECEIPT: Samples were received intact, at 3°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:



TestAmerica Phoenix

Kylie Emily For Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1629

Sampled: 07/26/11

Received: 07/26/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUG1629-01 (122 W. Yearling - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11G1033	2.0	ND	1	7/28/2011	7/28/2011	

TestAmerica Phoenix

Kylie Emily For Tina Paulauskas
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

PUG1629 <Page 2 of 5>

ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO-3994018
 Report Number: PUG1629

Sampled: 07/26/11
 Received: 07/26/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11G1033 Extracted: 07/28/11										
Blank Analyzed: 07/28/2011 (11G1033-BLK1)										
Perchlorate	ND	2.0	ug/l							
LCS Analyzed: 07/28/2011 (11G1033-BS1)										
Perchlorate	24.9	2.0	ug/l	25.0		100	85-115			
LCS Dup Analyzed: 07/28/2011 (11G1033-BSD1)										
Perchlorate	25.0	2.0	ug/l	25.0		100	85-115	0.3	15	
Duplicate Analyzed: 07/28/2011 (11G1033-DUP1)										
Perchlorate	1.35	2.0	ug/l					38	15	R9
Matrix Spike Analyzed: 07/28/2011 (11G1033-MS1)										
Perchlorate	24.4	2.0	ug/l	25.0		1.23	93	80-120		
Matrix Spike Dup Analyzed: 07/28/2011 (11G1033-MSD1)										
Perchlorate	23.9	2.0	ug/l	25.0		1.23	91	80-120	2	15

TestAmerica Phoenix

Kylie Emily For Tina Paulauskas
 Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1629

Sampled: 07/26/11

Received: 07/26/11

DATA QUALIFIERS AND DEFINITIONS

- R9** Sample RPD exceeded the laboratory acceptance limit
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica Phoenix

Kylie Emily For Tina Paulauskas
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced,
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PUG1629 <Page 4 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1629

Sampled: 07/26/11

Received: 07/26/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 314.0	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

Kylie Emily For Tina Paulauskas
Project Manager

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PUG1629 <Page 5 of 5>

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO-3994018

Sampled: 07/26/11
Received: 07/26/11
Issued: 07/31/11 08:49

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID

PUG1630-01

CLIENT ID

8 W. Yearling

MATRIX

Water

SAMPLE RECEIPT: Samples were received intact, at 3°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:



TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1630

Sampled: 07/26/11

Received: 07/26/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUG1630-01 (8 W. Yearling - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11G1033	2.0	ND	1	7/28/2011	7/28/2011	

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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PUG1630 <Page 2 of 5>

ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO-3994018
 Report Number: PUG1630

Sampled: 07/26/11
 Received: 07/26/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11G1033 Extracted: 07/28/11										
Blank Analyzed: 07/28/2011 (11G1033-BLK1)										
Perchlorate	ND	2.0	ug/l							
LCS Analyzed: 07/28/2011 (11G1033-BS1)										
Perchlorate	24.9	2.0	ug/l	25.0		100	85-115			
LCS Dup Analyzed: 07/28/2011 (11G1033-BSD1)										
Perchlorate	25.0	2.0	ug/l	25.0		100	85-115	0.3	15	
Duplicate Analyzed: 07/28/2011 (11G1033-DUP1)										
Perchlorate	1.35	2.0	ug/l		1.98			38	15	R9
Matrix Spike Analyzed: 07/28/2011 (11G1033-MS1)										
Perchlorate	24.4	2.0	ug/l	25.0	1.23	93	80-120			
Matrix Spike Dup Analyzed: 07/28/2011 (11G1033-MSD1)										
Perchlorate	23.9	2.0	ug/l	25.0	1.23	91	80-120	2	15	

TestAmerica Phoenix

Tina Paulauskas
 Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1630

Sampled: 07/26/11

Received: 07/26/11

DATA QUALIFIERS AND DEFINITIONS

- R9** Sample RPD exceeded the laboratory acceptance limit
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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PUG1630 <Page 4 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1630

Sampled: 07/26/11

Received: 07/26/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 314.0	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO-3994018

Sampled: 07/26/11
Received: 07/26/11
Issued: 07/31/11 08:45

NELAP #01109CA Arizona DHS#AZ0728

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This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID

PUG1631-01

CLIENT ID

204 E. Yearling

MATRIX

Water

SAMPLE RECEIPT: Samples were received intact, at 3°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:



TestAmerica Phoenix

Kylie Emily For Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1631

Sampled: 07/26/11

Received: 07/26/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUG1631-01 (204 E. Yearling - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11G1033	2.0	ND	1	7/28/2011	7/28/2011	

TestAmerica Phoenix

Kylie Emily For Tina Paulauskas
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO-3994018
 Report Number: PUG1631

Sampled: 07/26/11
 Received: 07/26/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11G1033 Extracted: 07/28/11										
Blank Analyzed: 07/28/2011 (11G1033-BLK1)										
Perchlorate	ND	2.0	ug/l							
LCS Analyzed: 07/28/2011 (11G1033-BS1)										
Perchlorate	24.9	2.0	ug/l	25.0		100	85-115			
LCS Dup Analyzed: 07/28/2011 (11G1033-BSD1)										
Perchlorate	25.0	2.0	ug/l	25.0		100	85-115	0.3	15	
Duplicate Analyzed: 07/28/2011 (11G1033-DUP1)										
Perchlorate	1.35	2.0	ug/l					38	15	R9
Matrix Spike Analyzed: 07/28/2011 (11G1033-MS1)										
Perchlorate	24.4	2.0	ug/l	25.0		1.23	93	80-120		
Matrix Spike Dup Analyzed: 07/28/2011 (11G1033-MSD1)										
Perchlorate	23.9	2.0	ug/l	25.0		1.23	91	80-120	2	15

TestAmerica Phoenix

Kylie Emily For Tina Paulauskas
 Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1631

Sampled: 07/26/11

Received: 07/26/11

DATA QUALIFIERS AND DEFINITIONS

- R9** Sample RPD exceeded the laboratory acceptance limit
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica Phoenix

Kylie Emily For Tina Paulauskas
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced,
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PUG1631 <Page 4 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1631

Sampled: 07/26/11
Received: 07/26/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 314.0	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

Kylie Emily For Tina Paulauskas
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO-3994018

Sampled: 07/26/11
Received: 07/26/11
Issued: 07/31/11 08:33

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID

PUG1632-01
PUG1632-02

CLIENT ID

16 E. Yearling Yard
16 E. Yearling

MATRIX

Water
Water

SAMPLE RECEIPT: Samples were received intact, at 3°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:



TestAmerica Phoenix

Kylie Emily For Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1632

Sampled: 07/26/11

Received: 07/26/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUG1632-01 (16 E. Yearling Yard - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11G1033	2.0	2.0	1	7/28/2011	7/28/2011	
Sample ID: PUG1632-02 (16 E. Yearling - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11G1033	2.0	ND	1	7/28/2011	7/28/2011	

TestAmerica Phoenix

Kylie Emily For Tina Paulauskas
Project Manager

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PUG1632 <Page 2 of 5>

ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1632

Sampled: 07/26/11
 Received: 07/26/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11G1033 Extracted: 07/28/11										
Blank Analyzed: 07/28/2011 (11G1033-BLK1)										
Perchlorate	ND	2.0	ug/l							
LCS Analyzed: 07/28/2011 (11G1033-BS1)										
Perchlorate	24.9	2.0	ug/l	25.0		100	85-115			
LCS Dup Analyzed: 07/28/2011 (11G1033-BSD1)										
Perchlorate	25.0	2.0	ug/l	25.0		100	85-115	0.3	15	
Duplicate Analyzed: 07/28/2011 (11G1033-DUP1)										
Perchlorate	1.35	2.0	ug/l					38	15	R9
Matrix Spike Analyzed: 07/28/2011 (11G1033-MS1)										
Perchlorate	24.4	2.0	ug/l	25.0		1.23	93	80-120		
Matrix Spike Dup Analyzed: 07/28/2011 (11G1033-MSD1)										
Perchlorate	23.9	2.0	ug/l	25.0		1.23	91	80-120	2	15

TestAmerica Phoenix

Kylie Emily For Tina Paulauskas
 Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1632

Sampled: 07/26/11

Received: 07/26/11

DATA QUALIFIERS AND DEFINITIONS

- R9** Sample RPD exceeded the laboratory acceptance limit
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica Phoenix

Kylie Emily For Tina Paulauskas
Project Manager

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PUG1632 <Page 4 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1632

Sampled: 07/26/11

Received: 07/26/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 314.0	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

Kylie Emily For Tina Paulauskas
Project Manager

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PUG1632 <Page 5 of 5>

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO-3994018

Sampled: 07/26/11
Received: 07/26/11
Issued: 07/31/11 09:14

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID

PUG1634-01

CLIENT ID

604 E. Yearling

MATRIX

Water

SAMPLE RECEIPT: Samples were received intact, at 3°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:



TestAmerica Phoenix

Kylie Emily For Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1634

Sampled: 07/26/11

Received: 07/26/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUG1634-01 (604 E. Yearling - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11G1033	2.0	ND	1	7/28/2011	7/28/2011	

TestAmerica Phoenix

Kylie Emily For Tina Paulauskas
Project Manager

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PUG1634 <Page 2 of 5>

ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO-3994018
 Report Number: PUG1634

Sampled: 07/26/11
 Received: 07/26/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11G1033 Extracted: 07/28/11										
Blank Analyzed: 07/28/2011 (11G1033-BLK1)										
Perchlorate	ND	2.0	ug/l							
LCS Analyzed: 07/28/2011 (11G1033-BS1)										
Perchlorate	24.9	2.0	ug/l	25.0		100	85-115			
LCS Dup Analyzed: 07/28/2011 (11G1033-BSD1)										
Perchlorate	25.0	2.0	ug/l	25.0		100	85-115	0.3	15	
Duplicate Analyzed: 07/28/2011 (11G1033-DUP1)										
Perchlorate	1.35	2.0	ug/l					38	15	R9
Matrix Spike Analyzed: 07/28/2011 (11G1033-MS1)										
Perchlorate	24.4	2.0	ug/l	25.0		1.23	93	80-120		
Matrix Spike Dup Analyzed: 07/28/2011 (11G1033-MSD1)										
Perchlorate	23.9	2.0	ug/l	25.0		1.23	91	80-120	2	15

TestAmerica Phoenix

Kylie Emily For Tina Paulauskas
 Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1634

Sampled: 07/26/11

Received: 07/26/11

DATA QUALIFIERS AND DEFINITIONS

- R9** Sample RPD exceeded the laboratory acceptance limit
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica Phoenix

Kylie Emily For Tina Paulauskas
Project Manager

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PUG1634 <Page 4 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1634

Sampled: 07/26/11

Received: 07/26/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 314.0	Water		X

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TestAmerica Phoenix

Kylie Emily For Tina Paulauskas
Project Manager

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PUG1634 <Page 5 of 5>

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO-3994018

Sampled: 07/26/11
Received: 07/26/11
Issued: 07/31/11 08:55

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID

PUG1635-01

CLIENT ID

520 E. Yearling

MATRIX

Water

SAMPLE RECEIPT: Samples were received intact, at 3°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:



TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1635

Sampled: 07/26/11

Received: 07/26/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUG1635-01 (520 E. Yearling - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11G1033	2.0	ND	1	7/28/2011	7/28/2011	

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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PUG1635 <Page 2 of 5>

ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1635

Sampled: 07/26/11

Received: 07/26/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11G1033 Extracted: 07/28/11										
Blank Analyzed: 07/28/2011 (11G1033-BLK1)										
Perchlorate	ND	2.0	ug/l							
LCS Analyzed: 07/28/2011 (11G1033-BS1)										
Perchlorate	24.9	2.0	ug/l	25.0		100	85-115			
LCS Dup Analyzed: 07/28/2011 (11G1033-BSD1)										
Perchlorate	25.0	2.0	ug/l	25.0		100	85-115	0.3	15	
Duplicate Analyzed: 07/28/2011 (11G1033-DUP1)										
Perchlorate	1.35	2.0	ug/l		1.98			38	15	R9
Matrix Spike Analyzed: 07/28/2011 (11G1033-MS1)										
Perchlorate	24.4	2.0	ug/l	25.0	1.23	93	80-120			
Matrix Spike Dup Analyzed: 07/28/2011 (11G1033-MSD1)										
Perchlorate	23.9	2.0	ug/l	25.0	1.23	91	80-120	2	15	

TestAmerica Phoenix

Tina Paulauskas
 Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1635

Sampled: 07/26/11

Received: 07/26/11

DATA QUALIFIERS AND DEFINITIONS

- R9** Sample RPD exceeded the laboratory acceptance limit
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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PUG1635 <Page 4 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1635

Sampled: 07/26/11

Received: 07/26/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 314.0	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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PUG1635 <Page 5 of 5>

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO-3994018

Sampled: 07/26/11
Received: 07/26/11
Issued: 07/31/11 09:02

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID

PUG1637-01

CLIENT ID

424 E. Yearling

MATRIX

Water

SAMPLE RECEIPT: Samples were received intact, at 3°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:



TestAmerica Phoenix

Kylie Emily For Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1637

Sampled: 07/26/11

Received: 07/26/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUG1637-01 (424 E.Yearling - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11G1033	2.0	ND	1	7/28/2011	7/28/2011	

TestAmerica Phoenix

Kylie Emily For Tina Paulauskas
Project Manager

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ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO-3994018
 Report Number: PUG1637

Sampled: 07/26/11
 Received: 07/26/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11G1033 Extracted: 07/28/11										
Blank Analyzed: 07/28/2011 (11G1033-BLK1)										
Perchlorate	ND	2.0	ug/l							
LCS Analyzed: 07/28/2011 (11G1033-BS1)										
Perchlorate	24.9	2.0	ug/l	25.0		100	85-115			
LCS Dup Analyzed: 07/28/2011 (11G1033-BSD1)										
Perchlorate	25.0	2.0	ug/l	25.0		100	85-115	0.3	15	
Duplicate Analyzed: 07/28/2011 (11G1033-DUP1)										
Perchlorate	1.35	2.0	ug/l							
					Source: PUG1632-01					
					1.98			38	15	R9
Matrix Spike Analyzed: 07/28/2011 (11G1033-MS1)										
Perchlorate	24.4	2.0	ug/l	25.0						
					Source: PUG1691-03					
					1.23	93	80-120			
Matrix Spike Dup Analyzed: 07/28/2011 (11G1033-MSD1)										
Perchlorate	23.9	2.0	ug/l	25.0						
					Source: PUG1691-03					
					1.23	91	80-120	2	15	

TestAmerica Phoenix

Kylie Emily For Tina Paulauskas
 Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1637

Sampled: 07/26/11

Received: 07/26/11

DATA QUALIFIERS AND DEFINITIONS

- R9** Sample RPD exceeded the laboratory acceptance limit
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica Phoenix

Kylie Emily For Tina Paulauskas
Project Manager

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PUG1637 <Page 4 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1637

Sampled: 07/26/11

Received: 07/26/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 314.0	Water		X

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TestAmerica Phoenix

Kylie Emily For Tina Paulauskas
Project Manager

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PUG1637 <Page 5 of 5>

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO-3994018

Sampled: 07/26/11
Received: 07/26/11
Issued: 07/31/11 08:58

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID

PUG1639-01

CLIENT ID

106 W.Yearling

MATRIX

Water

SAMPLE RECEIPT: Samples were received intact, at 3°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:



TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1639

Sampled: 07/26/11

Received: 07/26/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUG1639-01 (106 W.Yearling - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11G1033	2.0	ND	1	7/28/2011	7/28/2011	

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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PUG1639 <Page 2 of 5>

ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO-3994018
 Report Number: PUG1639

Sampled: 07/26/11
 Received: 07/26/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 11G1033 Extracted: 07/28/11										
Blank Analyzed: 07/28/2011 (11G1033-BLK1)										
Perchlorate	ND	2.0	ug/l							
LCS Analyzed: 07/28/2011 (11G1033-BS1)										
Perchlorate	24.9	2.0	ug/l	25.0		100	85-115			
LCS Dup Analyzed: 07/28/2011 (11G1033-BSD1)										
Perchlorate	25.0	2.0	ug/l	25.0		100	85-115	0.3	15	
Duplicate Analyzed: 07/28/2011 (11G1033-DUP1)										
Perchlorate	1.35	2.0	ug/l					38	15	R9
Matrix Spike Analyzed: 07/28/2011 (11G1033-MS1)										
Perchlorate	24.4	2.0	ug/l	25.0	1.23	93	80-120			
Matrix Spike Dup Analyzed: 07/28/2011 (11G1033-MSD1)										
Perchlorate	23.9	2.0	ug/l	25.0	1.23	91	80-120	2	15	

TestAmerica Phoenix

Tina Paulauskas
 Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1639

Sampled: 07/26/11

Received: 07/26/11

DATA QUALIFIERS AND DEFINITIONS

- R9** Sample RPD exceeded the laboratory acceptance limit
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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PUG1639 <Page 4 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1639

Sampled: 07/26/11

Received: 07/26/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 314.0	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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PUG1639 <Page 5 of 5>

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO-3994018

Sampled: 07/27/11
Received: 07/27/11
Issued: 07/31/11 09:24

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID

PUG1727-01

CLIENT ID

412 E. Yearling

MATRIX

Water

SAMPLE RECEIPT: Samples were received intact, at 3°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:



TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1727

Sampled: 07/27/11

Received: 07/27/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUG1727-01 (412 E.Yearling - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11G1033	2.0	ND	1	7/28/2011	7/28/2011	

TestAmerica Phoenix

Tina Paulauskas
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

PUG1727 <Page 2 of 5>

ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO-3994018
 Report Number: PUG1727

Sampled: 07/27/11
 Received: 07/27/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11G1033 Extracted: 07/28/11										
Blank Analyzed: 07/28/2011 (11G1033-BLK1)										
Perchlorate	ND	2.0	ug/l							
LCS Analyzed: 07/28/2011 (11G1033-BS1)										
Perchlorate	24.9	2.0	ug/l	25.0		100	85-115			
LCS Dup Analyzed: 07/28/2011 (11G1033-BSD1)										
Perchlorate	25.0	2.0	ug/l	25.0		100	85-115	0.3	15	
Duplicate Analyzed: 07/28/2011 (11G1033-DUP1)										
Perchlorate	1.35	2.0	ug/l		1.98			38	15	R9
Matrix Spike Analyzed: 07/28/2011 (11G1033-MS1)										
Perchlorate	24.4	2.0	ug/l	25.0	1.23	93	80-120			
Matrix Spike Dup Analyzed: 07/28/2011 (11G1033-MSD1)										
Perchlorate	23.9	2.0	ug/l	25.0	1.23	91	80-120	2	15	

TestAmerica Phoenix

Tina Paulauskas
 Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1727

Sampled: 07/27/11

Received: 07/27/11

DATA QUALIFIERS AND DEFINITIONS

- R9** Sample RPD exceeded the laboratory acceptance limit
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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PUG1727 <Page 4 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1727

Sampled: 07/27/11

Received: 07/27/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 314.0	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

Tina Paulauskas
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

PUG1727 <Page 5 of 5>

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO-3994018

Sampled: 07/27/11
Received: 07/27/11
Issued: 07/31/11 09:27

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID

PUG1729-01

CLIENT ID

25825 N.1st Place

MATRIX

Water

SAMPLE RECEIPT: Samples were received intact, at 3°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:



TestAmerica Phoenix

Kylie Emily For Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1729

Sampled: 07/27/11

Received: 07/27/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUG1729-01 (25825 N.1st Place - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	11G1033	2.0	ND	1	7/28/2011	7/28/2011	

TestAmerica Phoenix

Kylie Emily For Tina Paulauskas
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO-3994018
 Report Number: PUG1729

Sampled: 07/27/11
 Received: 07/27/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 11G1033 Extracted: 07/28/11										
Blank Analyzed: 07/28/2011 (11G1033-BLK1)										
Perchlorate	ND	2.0	ug/l							
LCS Analyzed: 07/28/2011 (11G1033-BS1)										
Perchlorate	24.9	2.0	ug/l	25.0		100	85-115			
LCS Dup Analyzed: 07/28/2011 (11G1033-BSD1)										
Perchlorate	25.0	2.0	ug/l	25.0		100	85-115	0.3	15	
Duplicate Analyzed: 07/28/2011 (11G1033-DUP1)										
Perchlorate	1.35	2.0	ug/l					38	15	R9
Matrix Spike Analyzed: 07/28/2011 (11G1033-MS1)										
Perchlorate	24.4	2.0	ug/l	25.0		1.23	93	80-120		
Matrix Spike Dup Analyzed: 07/28/2011 (11G1033-MSD1)										
Perchlorate	23.9	2.0	ug/l	25.0		1.23	91	80-120	2	15

TestAmerica Phoenix

Kylie Emily For Tina Paulauskas
 Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1729

Sampled: 07/27/11

Received: 07/27/11

DATA QUALIFIERS AND DEFINITIONS

- R9** Sample RPD exceeded the laboratory acceptance limit
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica Phoenix

Kylie Emily For Tina Paulauskas
Project Manager

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PUG1729 <Page 4 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1729

Sampled: 07/27/11

Received: 07/27/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 314.0	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

Kylie Emily For Tina Paulauskas
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

PUG1729 <Page 5 of 5>

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO-3994018

Sampled: 07/26/11
Received: 07/26/11
Issued: 08/04/11 10:04

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID

PUG1609-01

CLIENT ID

218 E. Yearling

MATRIX

Water

SAMPLE RECEIPT: Samples were received intact, at 3°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Reviewed By:



TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1609

Sampled: 07/26/11

Received: 07/26/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUG1609-01 (218 E.Yearling - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 332.0	11H0224	0.10	0.69	1	8/2/2011	8/2/2011	

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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PUG1609 <Page 2 of 5>

ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO-3994018
 Report Number: PUG1609

Sampled: 07/26/11
 Received: 07/26/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11H0224 Extracted: 08/02/11										
Blank Analyzed: 08/02/2011 (11H0224-BLK1)										
Perchlorate	ND	0.10	ug/l							
LCS Analyzed: 08/02/2011 (11H0224-BS1)										
Perchlorate	5.06	0.10	ug/l	5.00		101	80-120			
Matrix Spike Analyzed: 08/02/2011 (11H0224-MS1)										
Perchlorate	11.8	0.50	ug/l	5.00	8.58	64	80-120			M2
Matrix Spike Dup Analyzed: 08/02/2011 (11H0224-MSD1)										
Perchlorate	11.9	0.50	ug/l	5.00	8.58	66	80-120	0.9	20	M2

TestAmerica Phoenix

Tina Paulauskas
 Project Manager

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ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1609

Sampled: 07/26/11

Received: 07/26/11

DATA QUALIFIERS AND DEFINITIONS

- M2** Matrix spike recovery was low; the associated blank spike recovery was acceptable.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica Phoenix

Tina Paulauskas
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced,
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PUG1609 <Page 4 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1609

Sampled: 07/26/11

Received: 07/26/11

Certification Summary

Subcontracted Laboratories

TestAmerica - Irvine, CA *NELAC Cert #01108CA, California Cert #1197, Arizona Cert #AZ0671, Nevada Cert #CA72-2002-63, ORELAP Cert #Text1*

17461 Derian Ave., Suite 100 - Irvine, CA 92614

Method Performed: EPA 332.0

Samples: PUG1609-01

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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PUG1609 <Page 5 of 5>

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO-3994018

Sampled: 07/26/11
Received: 07/26/11
Issued: 08/04/11 10:22

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID

PUG1615-01

CLIENT ID

122 W.Yearling

MATRIX

Water

SAMPLE RECEIPT: Samples were received intact, at 3°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Reviewed By:



TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1615

Sampled: 07/26/11

Received: 07/26/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUG1615-01 (122 W.Yearling - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 332.0	11H0224	0.10	0.63	1	8/2/2011	8/2/2011	

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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PUG1615 <Page 2 of 5>

ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO-3994018
 Report Number: PUG1615

Sampled: 07/26/11
 Received: 07/26/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11H0224 Extracted: 08/02/11										
Blank Analyzed: 08/02/2011 (11H0224-BLK1)										
Perchlorate	ND	0.10	ug/l							
LCS Analyzed: 08/02/2011 (11H0224-BS1)										
Perchlorate	5.06	0.10	ug/l	5.00		101	80-120			
Matrix Spike Analyzed: 08/02/2011 (11H0224-MS1)										
Perchlorate	11.8	0.50	ug/l	5.00	8.58	64	80-120			M2
Matrix Spike Dup Analyzed: 08/02/2011 (11H0224-MSD1)										
Perchlorate	11.9	0.50	ug/l	5.00	8.58	66	80-120	0.9	20	M2

TestAmerica Phoenix

Tina Paulauskas
 Project Manager

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ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1615

Sampled: 07/26/11

Received: 07/26/11

DATA QUALIFIERS AND DEFINITIONS

- M2** Matrix spike recovery was low; the associated blank spike recovery was acceptable.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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PUG1615 <Page 4 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1615

Sampled: 07/26/11

Received: 07/26/11

Certification Summary

Subcontracted Laboratories

TestAmerica - Irvine, CA *NELAC Cert #01108CA, California Cert #1197, Arizona Cert #AZ0671, Nevada Cert #CA72-2002-63, ORELAP Cert #Text1*

17461 Derian Ave., Suite 100 - Irvine, CA 92614

Method Performed: EPA 332.0

Samples: PUG1615-01

TestAmerica Phoenix

Tina Paulauskas
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

PUG1615 <Page 5 of 5>

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO-3994018

Sampled: 07/26/11
Received: 07/26/11
Issued: 08/04/11 10:28

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID

PUG1617-01

CLIENT ID

8 W.Yearling

MATRIX

Water

SAMPLE RECEIPT: Samples were received intact, at 3°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Reviewed By:



TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1617

Sampled: 07/26/11

Received: 07/26/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUG1617-01 (8 W.Yearling - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 332.0	11H0224	0.10	0.74	1	8/2/2011	8/2/2011	

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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PUG1617 <Page 2 of 5>

ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO-3994018
 Report Number: PUG1617

Sampled: 07/26/11
 Received: 07/26/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11H0224 Extracted: 08/02/11										
Blank Analyzed: 08/02/2011 (11H0224-BLK1)										
Perchlorate	ND	0.10	ug/l							
LCS Analyzed: 08/02/2011 (11H0224-BS1)										
Perchlorate	5.06	0.10	ug/l	5.00		101	80-120			
Matrix Spike Analyzed: 08/02/2011 (11H0224-MS1)										
Perchlorate	11.8	0.50	ug/l	5.00	8.58	64	80-120			M2
Matrix Spike Dup Analyzed: 08/02/2011 (11H0224-MSD1)										
Perchlorate	11.9	0.50	ug/l	5.00	8.58	66	80-120	0.9	20	M2

TestAmerica Phoenix

Tina Paulauskas
 Project Manager

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ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1617

Sampled: 07/26/11

Received: 07/26/11

DATA QUALIFIERS AND DEFINITIONS

- M2** Matrix spike recovery was low; the associated blank spike recovery was acceptable.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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PUG1617 <Page 4 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1617

Sampled: 07/26/11

Received: 07/26/11

Certification Summary

Subcontracted Laboratories

TestAmerica - Irvine, CA *NELAC Cert #01108CA, California Cert #1197, Arizona Cert #AZ0671, Nevada Cert #CA72-2002-63, ORELAP Cert #Text1*

17461 Derian Ave., Suite 100 - Irvine, CA 92614

Method Performed: EPA 332.0

Samples: PUG1617-01

TestAmerica Phoenix

Tina Paulauskas
Project Manager

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO-3994018

Sampled: 07/26/11
Received: 07/26/11
Issued: 08/04/11 10:33

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID

PUG1619-01

CLIENT ID

204 E. Yearling

MATRIX

Water

SAMPLE RECEIPT: Samples were received intact, at 3°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Reviewed By:



TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1619

Sampled: 07/26/11

Received: 07/26/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUG1619-01 (204 E.Yearling - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 332.0	11H0224	0.20	0.72	2	8/2/2011	8/2/2011	

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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PUG1619 <Page 2 of 5>

ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1619

Sampled: 07/26/11

Received: 07/26/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11H0224 Extracted: 08/02/11										
Blank Analyzed: 08/02/2011 (11H0224-BLK1)										
Perchlorate	ND	0.10	ug/l							
LCS Analyzed: 08/02/2011 (11H0224-BS1)										
Perchlorate	5.06	0.10	ug/l	5.00		101	80-120			
Matrix Spike Analyzed: 08/02/2011 (11H0224-MS1)										
Perchlorate	11.8	0.50	ug/l	5.00	8.58	64	80-120			M2
Matrix Spike Dup Analyzed: 08/02/2011 (11H0224-MSD1)										
Perchlorate	11.9	0.50	ug/l	5.00	8.58	66	80-120	0.9	20	M2

TestAmerica Phoenix

Tina Paulauskas
 Project Manager

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ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1619

Sampled: 07/26/11

Received: 07/26/11

DATA QUALIFIERS AND DEFINITIONS

- M2** Matrix spike recovery was low; the associated blank spike recovery was acceptable.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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PUG1619 <Page 4 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1619

Sampled: 07/26/11

Received: 07/26/11

Certification Summary

Subcontracted Laboratories

TestAmerica - Irvine, CA *NELAC Cert #01108CA, California Cert #1197, Arizona Cert #AZ0671, Nevada Cert #CA72-2002-63, ORELAP Cert #Text1*

17461 Derian Ave., Suite 100 - Irvine, CA 92614

Method Performed: EPA 332.0

Samples: PUG1619-01

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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PUG1619 <Page 5 of 5>

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO-3994018

Sampled: 07/26/11
Received: 07/26/11
Issued: 08/04/11 10:41

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PUG1620-01	16 E. Yearling Yard	Water
PUG1620-02	16 E. Yearling	Water

SAMPLE RECEIPT: Samples were received intact, at 3°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Reviewed By:



TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1620

Sampled: 07/26/11

Received: 07/26/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUG1620-01 (16 E. Yearling Yard - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 332.0	11H0225	0.20	2.1	2	8/3/2011	8/3/2011	
Sample ID: PUG1620-02 (16 E. Yearling - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 332.0	11H0225	0.20	0.65	2	8/3/2011	8/3/2011	

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Tina Paulauskas
Project Manager

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PUG1620 <Page 2 of 5>

ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO-3994018
 Report Number: PUG1620

Sampled: 07/26/11
 Received: 07/26/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11H0225 Extracted: 08/03/11										
Blank Analyzed: 08/03/2011 (11H0225-BLK1)										
Perchlorate	ND	0.10	ug/l							
LCS Analyzed: 08/03/2011 (11H0225-BS1)										
Perchlorate	5.67	0.10	ug/l	5.00		113	80-120			
Matrix Spike Analyzed: 08/03/2011 (11H0225-MS1)										
Perchlorate	7.25	0.50	ug/l	5.00	1.26	120	80-120			
Matrix Spike Dup Analyzed: 08/03/2011 (11H0225-MSD1)										
Perchlorate	7.35	0.50	ug/l	5.00	1.26	122	80-120	1	20	MI

TestAmerica Phoenix

Tina Paulauskas
 Project Manager

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ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1620

Sampled: 07/26/11

Received: 07/26/11

DATA QUALIFIERS AND DEFINITIONS

- MI** Matrix spike recovery was high; the associated blank spike recovery was acceptable.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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PUG1620 <Page 4 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1620

Sampled: 07/26/11

Received: 07/26/11

Certification Summary

Subcontracted Laboratories

TestAmerica - Irvine, CA *NELAC Cert #01108CA, California Cert #1197, Arizona Cert #AZ0671, Nevada Cert #CA72-2002-63, ORELAP Cert #Text1*

17461 Derian Ave., Suite 100 - Irvine, CA 92614

Method Performed: EPA 332.0

Samples: PUG1620-01, PUG1620-02

TestAmerica Phoenix

Tina Paulauskas
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

PUG1620 <Page 5 of 5>

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO-3994018

Sampled: 07/26/11
Received: 07/26/11
Issued: 08/04/11 10:47

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID

PUG1621-01

CLIENT ID

106 W.Yearling

MATRIX

Water

SAMPLE RECEIPT: Samples were received intact, at 3°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Reviewed By:



TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1621

Sampled: 07/26/11

Received: 07/26/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUG1621-01 (106 W.Yearling - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 332.0	11G3557	0.10	0.57	1	7/29/2011	7/29/2011	

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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PUG1621 <Page 2 of 5>

ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO-3994018
 Report Number: PUG1621

Sampled: 07/26/11
 Received: 07/26/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11G3557 Extracted: 07/29/11										
Blank Analyzed: 07/29/2011 (11G3557-BLK1)										
Perchlorate	ND	0.10	ug/l							
LCS Analyzed: 07/29/2011 (11G3557-BS1)										
Perchlorate	5.24	0.10	ug/l	5.00		105	80-120			
Matrix Spike Analyzed: 07/29/2011 (11G3557-MS1)										
Perchlorate	7.47	1.0	ug/l	5.00	Source: IUG2309-01 2.39	102	80-120			
Matrix Spike Dup Analyzed: 07/29/2011 (11G3557-MSD1)										
Perchlorate	7.26	1.0	ug/l	5.00	Source: IUG2309-01 2.39	97	80-120	3	20	

TestAmerica Phoenix

Tina Paulauskas
 Project Manager

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ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1621

Sampled: 07/26/11

Received: 07/26/11

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD Relative Percent Difference

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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PUG1621 <Page 4 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1621

Sampled: 07/26/11

Received: 07/26/11

Certification Summary

Subcontracted Laboratories

TestAmerica - Irvine, CA *NELAC Cert #01108CA, California Cert #1197, Arizona Cert #AZ0671, Nevada Cert #CA72-2002-63, ORELAP Cert #Text1*

17461 Derian Ave., Suite 100 - Irvine, CA 92614

Method Performed: EPA 332.0

Samples: PUG1621-01

TestAmerica Phoenix

Tina Paulauskas
Project Manager

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO-3994018

Sampled: 07/26/11
Received: 07/26/11
Issued: 08/04/11 10:50

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID

PUG1623-01

CLIENT ID

424 E. Yearling

MATRIX

Water

SAMPLE RECEIPT: Samples were received intact, at 3°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Reviewed By:



TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1623

Sampled: 07/26/11

Received: 07/26/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUG1623-01 (424 E.Yearling - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 332.0	11G3557	0.10	1.7	1	7/29/2011	7/29/2011	

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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PUG1623 <Page 2 of 5>

ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO-3994018
 Report Number: PUG1623

Sampled: 07/26/11
 Received: 07/26/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11G3557 Extracted: 07/29/11										
Blank Analyzed: 07/29/2011 (11G3557-BLK1)										
Perchlorate	ND	0.10	ug/l							
LCS Analyzed: 07/29/2011 (11G3557-BS1)										
Perchlorate	5.24	0.10	ug/l	5.00		105	80-120			
Matrix Spike Analyzed: 07/29/2011 (11G3557-MS1)										
Perchlorate	7.47	1.0	ug/l	5.00	Source: IUG2309-01 2.39	102	80-120			
Matrix Spike Dup Analyzed: 07/29/2011 (11G3557-MSD1)										
Perchlorate	7.26	1.0	ug/l	5.00	Source: IUG2309-01 2.39	97	80-120	3	20	

TestAmerica Phoenix

Tina Paulauskas
 Project Manager

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ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1623

Sampled: 07/26/11

Received: 07/26/11

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD Relative Percent Difference

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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PUG1623 <Page 4 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1623

Sampled: 07/26/11

Received: 07/26/11

Certification Summary

Subcontracted Laboratories

TestAmerica - Irvine, CA *NELAC Cert #01108CA, California Cert #1197, Arizona Cert #AZ0671, Nevada Cert #CA72-2002-63, ORELAP Cert #Text1*

17461 Derian Ave., Suite 100 - Irvine, CA 92614

Method Performed: EPA 332.0

Samples: PUG1623-01

TestAmerica Phoenix

Tina Paulauskas
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

PUG1623 <Page 5 of 5>

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO-3994018

Sampled: 07/26/11
Received: 07/26/11
Issued: 08/04/11 10:53

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID

PUG1626-01

CLIENT ID

520 E. Yearling

MATRIX

Water

SAMPLE RECEIPT: Samples were received intact, at 3°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Reviewed By:



TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1626

Sampled: 07/26/11

Received: 07/26/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUG1626-01 (520 E. Yearling - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 332.0	11H0224	0.20	1.4	2	8/2/2011	8/2/2011	

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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PUG1626 <Page 2 of 5>

ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO-3994018
 Report Number: PUG1626

Sampled: 07/26/11
 Received: 07/26/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11H0224 Extracted: 08/02/11										
Blank Analyzed: 08/02/2011 (11H0224-BLK1)										
Perchlorate	ND	0.10	ug/l							
LCS Analyzed: 08/02/2011 (11H0224-BS1)										
Perchlorate	5.06	0.10	ug/l	5.00		101	80-120			
Matrix Spike Analyzed: 08/02/2011 (11H0224-MS1)										
Perchlorate	11.8	0.50	ug/l	5.00	8.58	64	80-120			M2
Matrix Spike Dup Analyzed: 08/02/2011 (11H0224-MSD1)										
Perchlorate	11.9	0.50	ug/l	5.00	8.58	66	80-120	0.9	20	M2

TestAmerica Phoenix

Tina Paulauskas
 Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1626

Sampled: 07/26/11

Received: 07/26/11

DATA QUALIFIERS AND DEFINITIONS

- M2** Matrix spike recovery was low; the associated blank spike recovery was acceptable.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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PUG1626 <Page 4 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1626

Sampled: 07/26/11

Received: 07/26/11

Certification Summary

Subcontracted Laboratories

TestAmerica - Irvine, CA *NELAC Cert #01108CA, California Cert #1197, Arizona Cert #AZ0671, Nevada Cert #CA72-2002-63, ORELAP Cert #Text1*

17461 Derian Ave., Suite 100 - Irvine, CA 92614

Method Performed: EPA 332.0

Samples: PUG1626-01

TestAmerica Phoenix

Tina Paulauskas
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced,
except in full, without written permission from TestAmerica.*

PUG1626 <Page 5 of 5>

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO-3994018

Sampled: 07/26/11
Received: 07/26/11
Issued: 08/04/11 10:56

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID

PUG1627-01

CLIENT ID

604 E. Yearling

MATRIX

Water

SAMPLE RECEIPT: Samples were received intact, at 3°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Reviewed By:



TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1627

Sampled: 07/26/11

Received: 07/26/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUG1627-01 (604 E.Yearling - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 332.0	11G3557	0.10	1.2	1	7/29/2011	7/29/2011	

TestAmerica Phoenix

Tina Paulauskas
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

PUG1627 <Page 2 of 5>

ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO-3994018
 Report Number: PUG1627

Sampled: 07/26/11
 Received: 07/26/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11G3557 Extracted: 07/29/11										
Blank Analyzed: 07/29/2011 (11G3557-BLK1)										
Perchlorate	ND	0.10	ug/l							
LCS Analyzed: 07/29/2011 (11G3557-BS1)										
Perchlorate	5.24	0.10	ug/l	5.00		105	80-120			
Matrix Spike Analyzed: 07/29/2011 (11G3557-MS1)										
Perchlorate	7.47	1.0	ug/l	5.00	Source: IUG2309-01 2.39	102	80-120			
Matrix Spike Dup Analyzed: 07/29/2011 (11G3557-MSD1)										
Perchlorate	7.26	1.0	ug/l	5.00	Source: IUG2309-01 2.39	97	80-120	3	20	

TestAmerica Phoenix

Tina Paulauskas
 Project Manager

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PUG1627 <Page 3 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1627

Sampled: 07/26/11

Received: 07/26/11

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD Relative Percent Difference

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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PUG1627 <Page 4 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1627

Sampled: 07/26/11

Received: 07/26/11

Certification Summary

Subcontracted Laboratories

TestAmerica - Irvine, CA *NELAC Cert #01108CA, California Cert #1197, Arizona Cert #AZ0671, Nevada Cert #CA72-2002-63, ORELAP Cert #Text1*

17461 Derian Ave., Suite 100 - Irvine, CA 92614

Method Performed: EPA 332.0

Samples: PUG1627-01

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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PUG1627 <Page 5 of 5>

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO-3994018

Sampled: 07/27/11
Received: 07/27/11
Issued: 08/04/11 16:28

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID

PUG1723-01

CLIENT ID

412. E.Yearling

MATRIX

Water

SAMPLE RECEIPT: Samples were received intact, at 3°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Reviewed By:



TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1723

Sampled: 07/27/11

Received: 07/27/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUG1723-01 (412. E.Yearling - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 332.0	11H0225	0.10	1.3	1	8/3/2011	8/3/2011	

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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PUG1723 <Page 2 of 5>

ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1723

Sampled: 07/27/11

Received: 07/27/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11H0225 Extracted: 08/03/11										
Blank Analyzed: 08/03/2011 (11H0225-BLK1)										
Perchlorate	ND	0.10	ug/l							
LCS Analyzed: 08/03/2011 (11H0225-BS1)										
Perchlorate	5.67	0.10	ug/l	5.00		113	80-120			
Matrix Spike Analyzed: 08/03/2011 (11H0225-MS1)										
Perchlorate	7.25	0.50	ug/l	5.00	1.26	120	80-120			
Matrix Spike Dup Analyzed: 08/03/2011 (11H0225-MSD1)										
Perchlorate	7.35	0.50	ug/l	5.00	1.26	122	80-120	1	20	MI

TestAmerica Phoenix

Tina Paulauskas
 Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1723

Sampled: 07/27/11

Received: 07/27/11

DATA QUALIFIERS AND DEFINITIONS

- MI** Matrix spike recovery was high; the associated blank spike recovery was acceptable.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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PUG1723 <Page 4 of 5>

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1723

Sampled: 07/27/11

Received: 07/27/11

Certification Summary

Subcontracted Laboratories

TestAmerica - Irvine, CA *NELAC Cert #01108CA, California Cert #1197, Arizona Cert #AZ0671, Nevada Cert #CA72-2002-63, ORELAP Cert #Text1*

17461 Derian Ave., Suite 100 - Irvine, CA 92614

Method Performed: EPA 332.0

Samples: PUG1723-01

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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PUG1723 <Page 5 of 5>

LABORATORY REPORT

Prepared For: ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project: UPCO-3994018

Sampled: 07/27/11
Received: 07/27/11
Issued: 08/04/11 16:25

NELAP #01109CA Arizona DHS#AZ0728

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This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID

PUG1724-01

CLIENT ID

25825 N.1st Place

MATRIX

Water

SAMPLE RECEIPT: Samples were received intact, at 3°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

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

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Reviewed By:



TestAmerica Phoenix

Tina Paulauskas
Project Manager

ARCADIS U.S., Inc. - Phoenix
4646 E. Van Buren, Ste. 400
Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1724

Sampled: 07/27/11

Received: 07/27/11

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUG1724-01 (25825 N.1st Place - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 332.0	11H0225	0.10	0.67	1	8/3/2011	8/3/2011	

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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PUG1724 <Page 2 of 5>

ARCADIS U.S., Inc. - Phoenix
 4646 E. Van Buren, Ste. 400
 Phoenix, AZ 85008
 Attention: Gregory Guimond

Project ID: UPCO-3994018
 Report Number: PUG1724

Sampled: 07/27/11
 Received: 07/27/11

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11H0225 Extracted: 08/03/11										
Blank Analyzed: 08/03/2011 (11H0225-BLK1)										
Perchlorate	ND	0.10	ug/l							
LCS Analyzed: 08/03/2011 (11H0225-BS1)										
Perchlorate	5.67	0.10	ug/l	5.00		113	80-120			
Matrix Spike Analyzed: 08/03/2011 (11H0225-MS1)										
Perchlorate	7.25	0.50	ug/l	5.00	1.26	120	80-120			
Matrix Spike Dup Analyzed: 08/03/2011 (11H0225-MSD1)										
Perchlorate	7.35	0.50	ug/l	5.00	1.26	122	80-120	1	20	MI

TestAmerica Phoenix

Tina Paulauskas
 Project Manager

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ARCADIS U.S., Inc. - Phoenix
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Phoenix, AZ 85008
Attention: Gregory Guimond

Project ID: UPCO-3994018

Report Number: PUG1724

Sampled: 07/27/11

Received: 07/27/11

DATA QUALIFIERS AND DEFINITIONS

- MI** Matrix spike recovery was high; the associated blank spike recovery was acceptable.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica Phoenix

Tina Paulauskas
Project Manager

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PUG1724 <Page 4 of 5>

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17461 Derian Ave., Suite 100 - Irvine, CA 92614

Method Performed: EPA 332.0

Samples: PUG1724-01

TestAmerica Phoenix

Tina Paulauskas
Project Manager

