

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)



Laboratory Report

for

Arizona Department of Environmental Quality
1110 West Washington Street
Phoenix, AZ 85007
Attention: David Burchard

Date of Issue
06/12/2017



Eurofins Eaton
Analytical

TDF: Thomas.D.French
Project Manager

Report:665170
Project:BISBEE-UD
ADHS License #:AZ0778
Group:Bisbee High School - Confirmation
PO#:PO#: ADEQ16-116686:3



* Accredited in accordance with TNi 2009 and ISO/IEC 17025:2005.

* Laboratory certifies that the test results meet all **TNI 2009 and ISO/IEC 17025:2005** requirements unless noted under the individual analysis.

* Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.

* Test results relate only to the sample(s) tested.

* This report shall not be reproduced except in full, without the written approval of the laboratory.

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	Mississippi	Certified
Arizona	AZ0778	Montana	Cert 0035
Arkansas	Certified	Nebraska	Certified
California-Monrovia-ELAP	2813	Nevada	CA00006-2016
California-Colton- ELAP	2812	New Hampshire *	2959
California-Folsom- ELAP	2820	New Jersey *	CA 008
California-Fresno- ELAP	2966	New Mexico	Certified
Colorado	Certified	New York *	11320
Connecticut	PH-0107	North Carolina	06701
Delaware	CA 006	North Dakota	R-009
Florida *	E871024	Oregon (Primary AB) *	ORELAP 4034
Georgia	947	Pennsylvania *	68-565
Guam	16-003r	Puerto Rico	Certified
Hawaii	Certified	Rhode Island	LAO00326
Idaho	Certified	South Carolina	87016
Illinois *	200033	South Dakota	Certified
Indiana	C-CA-01	Tennessee	TN02839
Kansas *	E-10268	Texas *	T104704230-15-9
Kentucky	90107	Utah *	CA000062016-10
Louisiana *	LA16003	Vermont	VT0114
Maine	CA0006	Virginia *	460260
Maryland	224	Washington	C838
Commonwealth of Northern Marianas Is.	MP0004	Wyoming	Certified
Massachusetts	M-CA006	EPA Region 5	Certified
Michigan	9906	Los Angeles County Sanitation Districts	10264

* NELAP/TNI Recognized Accreditation Bodies

ISO 17025 Accredited Method List

The tests listed below are accredited and meet the requirements of ISO 17025 as verified by the ANSI-ASQ National Accreditation Board/ANAB.

Refer to Certificate and scope of accreditation (AT 1807) found at: <http://www.eatonanalytical.com>

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Environmental (Drinking Water)	Environmental (Waste Water)	Water as a Component of Food and Bev/Bev/ Bottled Water
1,4-Dioxane	EPA 522	x		x
2,3,7,8-TCDD	Modified EPA 1613B	x		x
Acrylamide	In House Method (2440)	x		x
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H		x	x
Anions and DBPs by IC	EPA 300.0	x	x	x
Anions and DBPs by IC	EPA 300.1	x		x
Asbestos	EPA 100.2	x	x	
Bicarbonate Alkalinity as HCO ₃	SM 2320B	x	x	x
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method (2447)	x		x
Carbamates	EPA 531.2	x		x
Carbonate as CO ₃	SM 2330B	x	x	x
Carbonyls	EPA 556	x		x
COD	EPA 410.4 / SM 5220D		x	
Chloramines	SM 4500-CL G	x	x	x
Chlorinated Acids	EPA 515.4	x		x
Chlorinated Acids	EPA 555	x		x
Chlorine Dioxide	SM 4500-CLO ₂ D	x		x
Chlorine -Total/Free/ Combined Residual	SM 4500-Cl G	x	x	x
Conductivity	EPA 120.1		x	
Conductivity	SM 2510B	x	x	x
Corrosivity (Langelier Index)	SM 2330B	x		x
Cryptosporidium	EPA 1623	x		x
Cyanide, Amenable	SM 4500-CN G	x	x	
Cyanide, Free	SM 4500CN F	x	x	x
Cyanide, Total	EPA 335.4	x	x	x
Cyanogen Chloride (screen)	In House Method (2470)	x		x
Diquat and Paraquat	EPA 549.2	x		x
DBP/HAA	SM 6251B	x		x
Dissolved Oxygen	SM 4500-O G		x	x
DOC	SM 5310C	x		x
E. Coli (MTF/EC+MUG)		x		x
E. Coli	CFR 141.21(f)(6)(i)	x		x
E. Coli	SM 9223		x	
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	x		x
E. Coli (Enumeration)	SM 9223B	x		x
EDB/DCBP	EPA 504.1	x		
EDB/DCBP and DBP	EPA 551.1	x		x
EDTA and NTA	In House Method (2454)	x		x
Endothall	EPA 548.1	x		x
Endothall	In-house Method (2445)	x		x
Enterococci	SM 9230B	x	x	
Fecal Coliform	SM 9221 E (MTF/EC)	x		
Fecal Coliform	SM 9221C, E (MTF/EC)		x	
Fecal Coliform (Enumeration)	SM 9221E (MTF/EC)	x		x
Fecal Coliform with Chlorine Present	SM 9221E		x	
Fecal Streptococci	SM 9230B	x	x	
Fluoride	SM 4500-F C	x	x	x
Giardia	EPA 1623	x		x
Glyphosate	EPA 547	x		x
Gross Alpha/Beta	EPA 900.0	x	x	x
Gross Alpha Coprecipitation	SM 7110 C	x	x	x
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method (2439)	x		x
Heterotrophic Bacteria	SM 9215 B	x		x
Hexavalent Chromium	EPA 218.6	x	x	x

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Environmental (Drinking Water)	Environmental (Waste Water)	Water as a Component of Food and Bev/Bev/ Bottled Water
Hexavalent Chromium	EPA 218.7	x		x
Hexavalent Chromium	SM 3500-Cr B		x	
Hormones	EPA 539	x		x
Hydroxide as OH Calc.	SM 2330B	x		x
Kjeldahl Nitrogen	EPA 351.2		x	
Legionella	CDC Legionella	x		x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA (2360)	x		x
NDMA	EPA 521	x		x
NDMA	TQ In house method based on EPA 521 (2425)	x		x
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x	x
OCL, Pesticides/PCB	EPA 505	x		x
Ortho Phosphate	EPA 365.1	x	x	x
Ortho Phosphate	SM 4500P E			x
Ortho Phosphorous	SM 4500P E	x		
Oxyhalides Disinfection Byproducts	EPA 317.0	x		x
Perchlorate	EPA 331.0	x		x
Perchlorate (low and high)	EPA 314.0	x		x
Perfluorinated Alkyl Acids	EPA 537	x		x
pH	EPA 150.1	x		
pH	SM 4500-H+B	x	x	x
Phenylurea Pesticides/ Herbicides	In House Method, based on EPA 532 (2448)	x		x
Pseudomonas	IDEXX Pseudalert (2461)	x		x
Radium-226	GA Institute of Tech	x		x
Radium-228	GA Institute of Tech	x		x
Radon-222	SM 7500RN	x		x
Residue, Filterable	SM 2540C	x	x	x
Residue, Non-filterable	SM 2540D		x	
Residue, Total	SM 2540B		x	x
Residue, Volatile	EPA 160.4		x	
Semi-VOC	EPA 525.2	x		x
Semi-VOC	EPA 625		x	x
Silica	SM 4500-Si D	x	x	
Silica	SM 4500-SiO ₂ C	x	x	
Sulfide	SM 4500-S ⁻ D		x	
Sulfite	SM 4500-SO ₃ B	x	x	x
Surfactants	SM 5540C	x	x	x
Taste and Odor Analytes	SM 6040E	x		x
Total Coliform (P/A)	SM 9221 A, B	x		x
Total Coliform (Enumeration)	SM 9221 A, B, C	x		x
Total Coliform / E. coli	Colisure SM 9223	x		x
Total Coliform	SM 9221B		x	
Total Coliform with Chlorine Present	SM 9221B		x	
Total Coliform / E.coli (P/A and Enumeration)	SM 9223	x		x
TOC	SM 5310C	x	x	x
TOX	SM 5320B		x	
Total Phenols	EPA 420.1		x	
Total Phenols	EPA 420.4	x	x	x
Total Phosphorous	SM 4500 P E		x	
Turbidity	EPA 180.1	x	x	x
Turbidity	SM 2130B	x	x	
Uranium by ICP/MS	EPA 200.8	x		x
UV 254	SM 5910B	x		
VOC	EPA 524.2/EPA 524.3	x		x
VOC	EPA 624		x	x
VOC	EPA SW 846 8260	x		x
VOC	In House Method (2411)	x		x
Yeast and Mold	SM 9610	x		x

Acknowledgement of Samples Received

Addr: **Arizona Department of Environmental Quality**
1110 West Washington Street
Phoenix, AZ 85007

Attn: David Burchard
Phone: (602) 771-4298

Client ID: ADEQ-LEAD
Folder #: 665170
Project: BISBEE-UD
Sample Group: Bisbee High School - Confirmation

Project Manager: Thomas.D.French
Phone: (480) 778-1558
PO #: ADEQ16-116686:3

The following samples were received from you on **June 07, 2017 at 1239**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical.

Sample #	Sample ID	Sample Date
<u>201706080379</u>	1 Confirmation - First Draw	06/05/2017 1252
	Sample Type: Galvanized Water Line W/Hose Facility ID: Gym Ice Room Sample Point ID: Large Gym Ice Room	
	@ICPMS	Freight - Return
		Freight - Outbound
<u>201706080380</u>	2 Confirmation - Flush	06/05/2017 1253
	Sample Type: Galvanized Water Line W/Hose Facility ID: Gym Ice Room Sample Point ID: Large Gym Ice Room	
	@ICPMS	
<u>201706080381</u>	3 Confirmation First Draw Day 2	06/06/2017 0713
	Sample Type: Galvanized Water Line W/Hose Facility ID: Gym Ice Room Sample Point ID: Large Gym Ice Room	
	@ICPMS	

Test Description

@ICPMS -- ICPMS Metals
@ICPMS -- ICPMS Metals

665170

School Name: Bisbee High School

Building Name/Number/Year Built: Gym Ice Room

Sample Collector Name and Phone Number: Mica Tony Siria 570-366-2090

Page 5 of 13 pages


These samples were collected for screening purposes only and are not to be used for compliance determinations

For relinquishing samples upon delivery to labs only

DATE RELINQUISHED:	
RELINQUISHING AGENT SIGNATURE:	
SIGNATORY NAME PRINTED:	

For Lab Use Only

ANALYZE THIS DRINKING WATER SAMPLE FOR LEAD

DATE LAB RECEIVED:	6/7/17
TIME LAB RECEIVED:	1:39
LAB SIGNATURE:	
LAB SIGNATORY NAME PRINTED:	Theresa Nig
NOTES:	

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
(626) 386-1100 FAX (626) 386-1101

Kit #: 170919



Created By: Thomas.D.French - [TDF]
Deliver By: 05/24/2017
STG: Bottle Orders
Ice Type: W

Note: Sampler Please return this paper with your samples

Client ID: ADEQ-LEAD
Project Code: BISBEE-UD Bottle Orders
Group Name: Bisbee High School - Confirmation
PO#JOB#: ADEQ16-116686:3

Ship Sample Kits to
Bisbee Unified District
100 Old Douglas Road
Bisbee, AZ 85603

Attn: Richard Hodges-Maintenance
Phone: (520) 432-6112

Send Report to
Arizona Department of Environmental
Quality
1110 West Washington Street
Phoenix, AZ 85007

Attn: David Burchard
Phone: (602) 771-4298

Billing Address
Arizona Department of Environmental
Quality
1110 West Washington Street
Phoenix, AZ 85007

Attn: ADEQ
Phone: (602) 771-1936

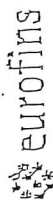
# of	Sample	Tests	Bottle Qty - Type [preservative information]	UN DOT #
1	@	ICPMS	1 - 1 L Wide Mouth Plastic [no preservative]	
2	@	ICPMS	1 - 250 ml widemouth poly [no preservative]	

Comments

Bisbee High School / Confirmation Sampling- Include Bisbee Unified School District- School-Specific Sample Log & Confirmation Sample Instructions. Packing instructions for return shipment to Eurofins Eaton Analytical, Inc. 750 Royal Oaks Drive, Suite C, Monrovia, CA 91016.

Return Shipment Standard Overnight

Sampler - please refer to Sample Instructions for specific instructions on completing paperwork and what to include with return shipment of the samples. Include a copy of this record also.



Eaton Analytical

INTERNAL CHAIN OF CUSTODY RECORD

EEA Folder Number:

665170

SAMPLE TEMP RECEIVED:

IR Gun ID = 392

(Observation = 33.2 °C)

(Corr.Factor = 4.2 °C) (Final = 23.0 °C)

SAMPLES REC'D DAY OF COLLECTION?

TYPE OF ICE: Real Synthetic No Ice

CONDITION OF ICE: Frozen Partially Frozen Thawed

N/A

METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx / UPS / DHL / Area Fast / Top Line / Other: ON TRAC

DCS

Compliance Acceptance Criteria:

1) Chemistry: >0, ≤6°C, not frozen (NELAP) (If received after 24 hrs of sample collection)

2) Microbiology Distribution: <10°C, not frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours)

3) Microbiology Surface Water: <10°C (If received after 2 hours of sample collection)

If out of temperature range for both Chemistry and Microbiology samples and temperature does not confirm, then measure the temperature of each quadrant and record each temperature of the quadrants

1 = (Observation = °C) (Corr.Factor = °C) (Final = °C)	2 = (Observation = °C) (Corr.Factor = °C) (Final = °C)
3 = (Observation = °C) (Corr.Factor = °C) (Final = °C)	4 = (Observation = °C) (Corr.Factor = °C) (Final = °C)

4) UCMR3: 524.3: (Observation = °C) (Corr.Factor = °C) (Final = °C)

(non-GLEC)

522: (Observation = °C) (Corr.Factor = °C) (Final = °C)

≤10°C if received within 48 hours of sample collection (not the same business day); ≤6°C if received after 48 hours of sample collection. Measure temperature for each method above.

6) LT2: Giardia/Cryptosporidium: <20 °C, not frozen (received after 8 hours of sample collection)

E. Coli: <10°C, not frozen (If received after 2 hours of sample collection)

Giardia/Crypto: (Observation = °C) (Corr.Factor = °C) (Final = °C)

E.Coli: (Observation = °C) (Corr.Factor = °C) (Final = °C)

6) Dioxin (1613 or 2,3,7,8 TCDD): must be between 0-4 °C, not frozen (If received after 24 hrs of sample collection)

Note: If samples are out of temperature range, let the ASMs know. ASMs will determine whether to proceed with analysis or not.

SIGNATURE

RECEIVED BY:

COMPANY/TITLE

Eurofins Eaton Analytical

DATE

6/7/17

TIME

1039

Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory Comments**Report:** 665170**Project:** BISBEE-UD**Group:** Bisbee High School - Confirmation

Arizona Department of Environmental Quality
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Phoenix, AZ 85007

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Report: 665170
Project: BISBEE-UD
Group: Bisbee High School - Confirmation

Arizona Department of Environmental Quality
David Burchard
1110 West Washington Street
Phoenix, AZ 85007

Samples Received on:
06/07/2017 1239

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
		<u>1 Confirmation - First Draw</u>				
06/09/2017 13:12	Lead Total ICAP/MS	201706080379	45	15	ug/L	0.5
		<u>2 Confirmation - Flush</u>				
06/08/2017 18:42	Lead Total ICAP/MS	201706080380	10	15	ug/L	0.5
		<u>3 Confirmation First Draw Day 2</u>				
06/08/2017 18:46	Lead Total ICAP/MS	201706080381	7.4	15	ug/L	0.5

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Laboratory Data

Report: 665170
Project: BISBEE-UD
Group: Bisbee High School - Confirmation

Arizona Department of Environmental Quality
David Burchard
1110 West Washington Street
Phoenix, AZ 85007

Samples Received on:
06/07/2017 1239

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
1 Confirmation - First Draw (201706080379)						Sampled on 06/05/2017 1252			
Sample Type: Galvanized Water Line W/Hose									
Facility ID: Gym Ice Room									
Sample Point ID: Large Gym Ice Room									
EPA 200.8 - ICPMS Metals									
06/08/17	06/09/17 13:12	1001374	1001554	(EPA 200.8)	Lead Total ICAP/MS	45	ug/L	0.5	1
2 Confirmation - Flush (201706080380)						Sampled on 06/05/2017 1253			
Sample Type: Galvanized Water Line W/Hose									
Facility ID: Gym Ice Room									
Sample Point ID: Large Gym Ice Room									
EPA 200.8 - ICPMS Metals									
06/08/17	06/08/17 18:42	1001374	1001465	(EPA 200.8)	Lead Total ICAP/MS	10	ug/L	0.5	1
3 Confirmation First Draw Day 2 (201706080381)						Sampled on 06/06/2017 0713			
Sample Type: Galvanized Water Line W/Hose									
Facility ID: Gym Ice Room									
Sample Point ID: Large Gym Ice Room									
EPA 200.8 - ICPMS Metals									
06/08/17	06/08/17 18:46	1001374	1001465	(EPA 200.8)	Lead Total ICAP/MS	7.4	ug/L	0.5	1

Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory QC Summary

Report: 665170
Project: BISBEE-UD
Group: Bisbee High School - Confirmation

Arizona Department of Environmental Quality

ICPMS Metals

Prep Batch: 1001374 Analytical Batch: 1001465

201706080380	2 Confirmation - Flush
201706080381	3 Confirmation First Draw Day 2

Analysis Date: 06/08/2017

Analyzed by: CYP
Analyzed by: CYP

ICPMS Metals

Prep Batch: 1001374 Analytical Batch: 1001554

201706080379	1 Confirmation - First Draw
--------------	-----------------------------

Analysis Date: 06/09/2017

Analyzed by: DTN

Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Report: 665170
Project: BISBEE-UD
Group: Bisbee High School - Confirmation

Arizona Department of Environmental Quality

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
ICPMS Metals by EPA 200.8									
Analytical Batch: 1001465					Analysis Date: 06/08/2017				
LCS1	Lead Total ICAP/MS		20	21.4	ug/L	107	(85-115)		
LCS2	Lead Total ICAP/MS		20	21.7	ug/L	109	(85-115)	20	1.4
MBLK	Lead Total ICAP/MS			<0.25	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.517	ug/L	103	(50-150)		
MS_201706071019	Lead Total ICAP/MS	ND	20	19.9	ug/L	100	(70-130)		
MS2_201706060894	Lead Total ICAP/MS	ND	20	20.9	ug/L	104	(70-130)		
MSD_201706071019	Lead Total ICAP/MS	ND	20	20.3	ug/L	102	(70-130)	20	2.0
MSD2_201706060894	Lead Total ICAP/MS	ND	20	20.8	ug/L	104	(70-130)	20	0.48
ICPMS Metals by EPA 200.8									
Analytical Batch: 1001554					Analysis Date: 06/09/2017				
LCS1	Lead Total ICAP/MS		20	19.5	ug/L	98	(85-115)		
LCS2	Lead Total ICAP/MS		20	20.1	ug/L	100	(85-115)	20	3.0
MBLK	Lead Total ICAP/MS			<0.25	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.507	ug/L	101	(50-150)		
MS_201706060747	Lead Total ICAP/MS	ND	20	20.3	ug/L	102	(70-130)		
MS2_201706060819	Lead Total ICAP/MS	ND	20	20.2	ug/L	101	(70-130)		
MSD_201706060747	Lead Total ICAP/MS	ND	20	20.7	ug/L	104	(70-130)	20	2.0
MSD2_201706060819	Lead Total ICAP/MS	ND	20	19.2	ug/L	96	(70-130)	20	5.1

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.