

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)



AT-1807

Laboratory Report

for

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

Date of Issue
08/15/2017


Eurofins Eaton
Analytical, Inc.

TDF: Thomas.D.French
Project Manager

Report:678320
Project:BISBEE-UD
ADHS License #:AZ0778
Group:Greenway Primary 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	Michigan	9906
Arizona	AZ0778	Mississippi	Certified
Arkansas	Certified	Montana	Cert 0035
California-Monrovia-ELAP	2813	Nebraska	Certified
California-Colton- ELAP	2812	Nevada	CA00006-2016
California-Folsom- ELAP	2820	New Hampshire *	2959
California-Fresno- ELAP	2966	New Jersey *	CA 008
Colorado	Certified	New Mexico	Certified
Connecticut	PH-0107	New York *	11320
Delaware	CA 006	North Carolina	06701
Florida *	E871024	North Dakota	R-009
Georgia	947	Oregon (Primary AB) *	ORELAP 4034
Guam	17-005R	Pennsylvania *	68-565
Hawaii	Certified	Puerto Rico	Certified
Idaho	Certified	Rhode Island	LAO00326
Illinois *	200033	South Carolina	87016
Indiana	C-CA-01	South Dakota	Certified
Iowa - Asbestos	413	Tennessee	TN02839
Kansas *	E-10268	Texas *	T104704230-16-11
Kentucky	90107	Utah *	CA000062017-11
Louisiana *	LA16003	Vermont	VT0114
Maine	CA0006	Virginia *	460260
Maryland	224	Washington	C838
Commonwealth of Northern Marianas Is.	MP0004	EPA Region 5	Certified
Massachusetts	M-CA006	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 #: 678320
Project: BISBEE-UD
Sample Group: Greenway Primary School -
Confirmation
Project Manager: Thomas.D.French
Phone: (480) 778-1558
PO #: ADEQ16-116686:3
Sampler: Yariela Borquez

The following samples were received from you on **August 09, 2017 at 1735**. 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, Inc..

Sample #	Sample ID	Sample Date
<u>201708091186</u>	1 Confirmation - First Draw Sample Type: Sink Facility ID: Library Sample Point ID: Library @ICPMS	07/31/2017 0600
	Freight - Return	Freight - Outbound
<u>201708091187</u>	2 Confirmation - Flush Sample Type: Sink Facility ID: Library Sample Point ID: Library @ICPMS	07/31/2017 0601
<u>201708091188</u>	3 Confirmation First Draw Day 2 Sample Type: Sink Facility ID: Library Sample Point ID: Library @ICPMS	08/01/2017 0615

Test Description

@ICPMS -- ICPMS Metals

@ICPMS -- ICPMS Metals

			Lead In Schools Confirmation Sampling Log
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School District: Bisbee Unified District

School Name: Greenway Primary School

Building Name/Number/Year Built: Library

Sample Collector Name and Phone Number: Yariela Borquez / 370-366-4273

Sample ID # (must appear on bottle)	Bottle Size	Fixture Type/ Make and model #	Fixture location	Collection Time	Collection Date
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1 Confirmation – First Draw	250 ml	sink	Library	600	7-31-17
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2 Confirmation – Flush	250 ml	Sink	Library	601	7-31-17
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3 Confirmation – First Draw Day Two	1 Liter	Sink	Library	615	8-1-17
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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:		8-9-17
TIME LAB RECEIVED:		17:35
LAB SIGNATURE:		MAV
LAB SIGNATORY NAME PRINTED:		MAV
NOTES:		



Eaton Analytical

Kit Order for Arizona Department of Environmental Quality

Thomas.D.French is your Eurofins Eaton Analytical, Inc. Service Manager

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
(626) 386-1100 FAX (866) 988-3757

Kit #: 176544



Created By: Thomas.D.French - [TDF]

Deliver By: 07/28/2017

STG: Bottle Orders

Ice Type: W

Client ID: ADEQ-LEAD

Project Code: BISBEE-UD Bottle Orders

Group Name: No Schedule

PO#/JOB#: ADEQ16-116686:3

Ref: K#176544

Dep:

Date: 26Jul17

Wgt: 2.00 LBS

BY:

SHIPPING:

SPECIAL:

HANDLING:

TOTAL:

SVcs: STANDARD OVERNIGHT

TRCK: 7324 9822 4258

Note: Sampler Please return this paper with your samples

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

1 @ICPMS

2 @ICPMS

Bottle Qty - Type [preservative information]

1 - 1 L Wide Mouth Plastic [no preservative]

1 - 250 ml widemouth poly [no preservative]

UN DOT #

Comments

Greenway Primary 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.

Code

Status

Date Shipped

Via

Tracking #

of Coolers

Prepared By



eurofins

Eaton Analytical

INTERNAL CHAIN OF CUSTODY RECORD

EEA Folder Number:

678320

SAMPLES REC'D DAY OF COLLECTION?

SAMPLE TEMP RECEIVED:

IR Gun ID = 582A (Observation = 24.6 °C) (Corr. Factor = -0.1 °C) (Final = 24.7 °C)

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: 7829 9822 4258

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.

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

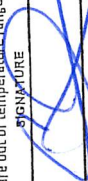
E. Coli: <10°C, not frozen (if received after 2 hours of sample collection)

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 ranges, let the ASMs know. ASMs will determine whether to proceed with analysis or not.

RECEIVED BY:	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
		Chris Gush	Eurofins Eaton Analytical	8-9-17	1735

Tel: (626) 386-1100
Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

Laboratory Comments

Report: 678320
Project: BISBEE-UD
Group: Greenway Primary School -
Confirmation

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

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Report: 678320
Project: BISBEE-UD
Group: Greenway Primary School - Confirmation

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

Samples Received on:
08/09/2017 1735

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
		<u>201708091186</u>				
		<u>1 Confirmation - First Draw</u>				
08/11/2017 14:33	Lead Total ICAP/MS		2.4	15	ug/L	0.5
		<u>201708091187</u>				
		<u>2 Confirmation - Flush</u>				
08/11/2017 14:37	Lead Total ICAP/MS		1.9	15	ug/L	0.5
		<u>201708091188</u>				
		<u>3 Confirmation First Draw Day 2</u>				
08/11/2017 14:39	Lead Total ICAP/MS		0.78	15	ug/L	0.5

Tel: (626) 386-1100
Fax: (866) 988-3757
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Laboratory Data

Report: 678320
Project: BISBEE-UD
Group: Greenway Primary School - Confirmation

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

Samples Received on:
08/09/2017 1735

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
1 Confirmation - First Draw (201708091186)						Sampled on 07/31/2017 0600			
Sample Type: Sink									
Facility ID: Library									
Sample Point ID: Library									
EPA 200.8 - ICPMS Metals									
08/10/17	08/11/17 14:33	1017596	1018187	(EPA 200.8)	Lead Total ICAP/MS	2.4	ug/L	0.5	1
2 Confirmation - Flush (201708091187)						Sampled on 07/31/2017 0601			
Sample Type: Sink									
Facility ID: Library									
Sample Point ID: Library									
EPA 200.8 - ICPMS Metals									
08/10/17	08/11/17 14:37	1017596	1018187	(EPA 200.8)	Lead Total ICAP/MS	1.9	ug/L	0.5	1
3 Confirmation First Draw Day 2 (201708091188)						Sampled on 08/01/2017 0615			
Sample Type: Sink									
Facility ID: Library									
Sample Point ID: Library									
EPA 200.8 - ICPMS Metals									
08/10/17	08/11/17 14:39	1017596	1018187	(EPA 200.8)	Lead Total ICAP/MS	0.78	ug/L	0.5	1

Tel: (626) 386-1100
Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

Laboratory QC Summary

Report: 678320
Project: BISBEE-UD
Group: Greenway Primary School -
Confirmation

Arizona Department of Environmental Quality

ICPMS Metals

Prep Batch: 1017596 Analytical Batch: 1018187

201708091186	1 Confirmation - First Draw
201708091187	2 Confirmation - Flush
201708091188	3 Confirmation First Draw Day 2

Analysis Date: 08/11/2017

Analyzed by: DTN
Analyzed by: DTN
Analyzed by: DTN

Tel: (626) 386-1100
Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

Report: 678320
Project: BISBEE-UD
Group: Greenway Primary 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: 1018187					Analysis Date: 08/11/2017				
LCS1	Lead Total ICAP/MS		20	19.2	ug/L	96	(85-115)		
LCS2	Lead Total ICAP/MS		20	19.4	ug/L	97	(85-115)	20	1.0
MBLK	Lead Total ICAP/MS			<0.25	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.568	ug/L	114	(50-150)		
MS_201708091186	Lead Total ICAP/MS	2.4	20	21.8	ug/L	97	(70-130)		
MS2_201708081266	Lead Total ICAP/MS	10	20	29.0	ug/L	95	(70-130)		
MSD_201708091186	Lead Total ICAP/MS	2.4	20	21.6	ug/L	96	(70-130)	20	0.92
MSD2_201708081266	Lead Total ICAP/MS	10	20	28.8	ug/L	94	(70-130)	20	0.69

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.