eurofins | Eaton Analytical

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1 800 566 LABS (1 800 566 5227)

ACCLASS ACCREDITED TESTING AT-1807

Laboratory Report

for

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

Date of Issue
08/01/2017

Eurofins Eaton Analytical, Inc.

NELAP ACCREDITED TNI LABORATORY
ORELAP 4034

TDF: Thomas.D.French
Project Manager

Report:675110
Project:INDIANOASIS-BUD
ADHS License #:AZ0778
Group:Indian Oasis Intermediate 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

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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	Environ-mental (Drinking Water)	Environ-mental (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 HCO3	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 CO3	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-CLO2 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/DBCP 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	Environ-mental (Drinking Water)	Environ-mental (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-SiO2 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

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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 #: 675110
Project: INDIANOASIS-BUD
Sample Group: Indian Oasis Intermediate School - Confirmation
Project Manager: Thomas.D.French
Phone: (480) 778-1558
PO #: ADEQ16-116686:3
Sampler: Michelle Karp

The following samples were received from you on **July 26, 2017** at **1143**. 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
201707260556	1 Confirmation - First Draw	07/21/2017 0705
	Sample Type: Faucet Facility ID: Rm 206 Fountain Sample Point ID: 200	
	@ICPMS Freight - Return Freight - Outbound	
201707260557	2 Confirmation - Flush	07/21/2017 0710
	Sample Type: Faucet Facility ID: Rm 206 Fountain Sample Point ID: 200	
	@ICPMS	
201707260558	3 Confirmation First Draw Day 2	07/24/2017 0640
	Sample Type: Faucet Facility ID: Rm 206 Fountain Sample Point ID: 200	
	@ICPMS	
201707260559	4 Screening	07/21/2017 0705
	Sample Type: Faucet Facility ID: Rm 2008 Fountain Sample Point ID: 200	
	@ICPMS	

Test Description

@ICPMS -- ICPMS Metals

@ICPMS -- ICPMS Metals

750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (866) 988-3757 www.EurofinsUS.com/Eaton

Lead In Schools Confirmation Sampling Log

School District: Indian Oasis-Baboquivari Unified District

School Name: Indian Oasis Intermediate School

675110

Building Name/Number/Year Built: 200

Sample Collector Name and Phone Number: Michelle Karp 520-383-6950 / S. Jacott 9287013879

Sample ID # (must appear on bottle)	Bottle Size	Fixture Type/ Make and model #	Fixture location	Collection Time	Collection Date
1 Confirmation – First Draw	250 ml	Faucet	Rm 206 fountain 0705	~~7:50 AM~~	~~6/22/17~~ 7/21/17
2 Confirmation – Flush	250 ml	Faucet	Rm 206 fountain 0710	~~7:52 AM~~	~~6/22/17~~ 7/21/17
3 Confirmation – First Draw Day Two	1 Liter	Faucet	Rm 206 fountain 0640	8:00 AM	~~6/23/17~~ 7/24/17
4 Screening	250 ml	Fountain	Rm 206 fountain 0705	~~8:06 AM~~	~~6/22/17~~ 7/21/17

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:	7.26.17
TIME LAB RECEIVED:	1143
LAB SIGNATURE:	
LAB SIGNATORY NAME PRINTED:	Chris Gerfen
NOTES:	

FedEx TRK# 0221 7324 9821 2574

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INTERNAL CHAIN OF CUSTODY RECORD

EEA Folder Number: 67510

SAMPLES REC'D DAY OF COLLECTION? ☐

SAMPLE TEMP RECEIVED:

IR Gun ID = 569A (Observation= 24.9 °C) (Corr.Factor -.2 °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: _____

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 : (non-GLEC) 524.3: (Observation= ____ °C) (Corr.Factor ____ °C) (Final = ____ °C)

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

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
RECEIVED BY:		Chris Gerta	Eurofins Eaton Analytical	7-26-17	1143

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Laboratory Comments

Report: 675110
Project: INDIANOASIS-BUD
Group: Indian Oasis Intermediate School - Confirmation

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

The Comments Report may be blank if there are no comments for this report.

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Laboratory Hits

Report: 675110
Project: INDIANOASIS-BUD
Group: Indian Oasis Intermediate School - Confirmation

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

Samples Received on:
07/26/2017 1143

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
	201707260556	**1 Confirmation - First Draw**				
07/28/2017 12:59	Lead Total ICAP/MS		2.3	15	ug/L	0.5
	201707260557	**2 Confirmation - Flush**				
07/28/2017 13:02	Lead Total ICAP/MS		13	15	ug/L	0.5
	201707260558	**3 Confirmation First Draw Day 2**				
07/28/2017 13:03	Lead Total ICAP/MS		4.8	15	ug/L	0.5
	201707260559	**4 Screening**				
07/28/2017 13:04	Lead Total ICAP/MS		2.0	15	ug/L	0.5

SUMMARY OF POSITIVE DATA ONLY

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Laboratory Data

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Phoenix, AZ 85007

Samples Received on:
07/26/2017 1143

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
1 Confirmation - First Draw (201707260556)							**Sampled on 07/21/2017 0705**		
Sample Type: Faucet Facility ID: Rm 206 Fountain Sample Point ID: 200									
			EPA 200.8 - ICPMS Metals						
07/27/17	07/28/17 12:59	1013549	1014443	(EPA 200.8)	Lead Total ICAP/MS	2.3	ug/L	0.5	1
2 Confirmation - Flush (201707260557)							**Sampled on 07/21/2017 0710**		
Sample Type: Faucet Facility ID: Rm 206 Fountain Sample Point ID: 200									
			EPA 200.8 - ICPMS Metals						
07/27/17	07/28/17 13:02	1013549	1014443	(EPA 200.8)	Lead Total ICAP/MS	13	ug/L	0.5	1
3 Confirmation First Draw Day 2 (201707260558)							**Sampled on 07/24/2017 0640**		
Sample Type: Faucet Facility ID: Rm 206 Fountain Sample Point ID: 200									
			EPA 200.8 - ICPMS Metals						
07/27/17	07/28/17 13:03	1013549	1014443	(EPA 200.8)	Lead Total ICAP/MS	4.8	ug/L	0.5	1
4 Screening (201707260559)							**Sampled on 07/21/2017 0705**		
Sample Type: Faucet Facility ID: Rm 2008 Fountain Sample Point ID: 200									
			EPA 200.8 - ICPMS Metals						
07/27/17	07/28/17 13:04	1013549	1014443	(EPA 200.8)	Lead Total ICAP/MS	2.0	ug/L	0.5	1

Rounding on totals after summation.
(c) - indicates calculated results

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Laboratory QC Summary

Report: 675110
Project: INDIANOASIS-BUD
Group: Indian Oasis Intermediate School - Confirmation

Arizona Department of Environmental Quality

ICPMS Metals

Prep Batch: 1013549 **Analytical Batch: 1014443** **Analysis Date: 07/28/2017**

201707260556	1 Confirmation - First Draw	Analyzed by: RPD
201707260557	2 Confirmation - Flush	Analyzed by: RPD
201707260558	3 Confirmation First Draw Day 2	Analyzed by: RPD
201707260559	4 Screening	Analyzed by: RPD

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Laboratory QC

Report: 675110
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Arizona Department of Environmental Quality

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
ICPMS Metals by EPA 200.8									
Analytical Batch: 1014443							**Analysis Date: 07/28/2017**		
LCS1	Lead Total ICAP/MS		20	19.9	ug/L	100	(85-115)		
LCS2	Lead Total ICAP/MS		20	20.0	ug/L	100	(85-115)	20	0.50
MBLK	Lead Total ICAP/MS			<0.25	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.511	ug/L	102	(50-150)		
MS_201707250973	Lead Total ICAP/MS	1.1	20	22.1	ug/L	105	(70-130)		
MS2_201707260559	Lead Total ICAP/MS	2.0	20	23.0	ug/L	105	(70-130)		
MSD_201707250973	Lead Total ICAP/MS	1.1	20	22.2	ug/L	105	(70-130)	20	0.45
MSD2_201707260559	Lead Total ICAP/MS	2.0	20	22.9	ug/L	104	(70-130)	20	0.87

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.