

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)

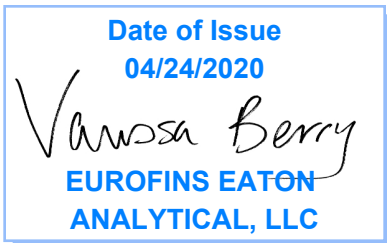


AT-1807

Laboratory Report

for

West Slope Water District
31PO Box 25140
Portland, OR 97298
Attention: Michael Grimm



UTAH ELCP CA00006

Report:864649
Project:UCMR4
Group:AM1-EP-OR4100660-West Slope Water District

ZIA8: Vanessa Berry
Project Manager

- * Accredited in accordance with TNI 2016 and ISO/IEC 17025:2017.
- * Laboratory certifies that the test results meet all **TNI 2016 and ISO/IEC 17025:2017** requirements unless noted under the individual analysis.
- * Following the cover page are State Certification List, ISO/IEC 17025:2017 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.
- * Test results apply to the sample(s) as received, unless EEA-M collected and analyzed the sample(s) as noted in the COC and final report.
- * This report shall not be reproduced except in full, without the written approval of the laboratory.
- * This report includes ISO/IEC 17025:2017 and non-ISO/IEC 17025:2017 accredited methods.

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	Montana	Cert 0035
Arizona	AZ0778	Nebraska	Certified
Arkansas	Certified	Nevada	CA000062018
California	2813	New Hampshire *	2959
Colorado	Certified	New Jersey *	CA 008
Connecticut	PH-0107	New Mexico	Certified
Delaware	CA 006	New York *	11320
Florida *	E871024	North Carolina	06701
Georgia	947	North Dakota	R-009
Guam	18-005R	Oregon *	CA200003-005
Hawaii	Certified	Pennsylvania *	68-565
Idaho	Certified	Puerto Rico	Certified
Illinois *	200033	Rhode Island	LAO00326
Indiana	C-CA-01	South Carolina	87016
Iowa - Asbestos	413	South Dakota	Certified
Kansas *	E-10268	Tennessee	TN02839
Kentucky	90107	Texas *	T104704230-18-15
Louisiana *	LA180000	Utah (Primary AB) *	CA00006
Maine	CA0006	Vermont	VT0114
Maryland	224	Virginia *	460260
Commonwealth of Northern Marianas Is.	MP0004	Washington	C838
Massachusetts	M-CA006	EPA Region 5	Certified
Michigan	9906	Los Angeles County Sanitation Districts	10264
Mississippi	Certified		

* NELAP/TNI Recognized Accreditation Bodies

ISO/IEC 17025 Accredited Method List

The tests listed below are accredited and meet the requirements of ISO/IEC 17025 as verified by the ANSI-ASQ National Accreditation Board/ANAB. Refer to Certificate and scope of accreditation (AT 1807) found at: <https://www.eurofinsus.com/Eaton>

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Environmental (Drinking Water)	Environmental (Waste Water)	Water as a Component of Food and Bev/Bev/ Bottled Water
1,2,3-TCP (5 PPT & 0.5 PPT)	CA SRL 524M-TCP	x		x
1,4-Dioxane	EPA 522	x		x
2,3,7,8-TCDD	Modified EPA 1613B	x		x
Acrylamide	In House Method (2440)	x		x
Algal Toxins/Microcystin	In House Method (3570)			
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	
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 Palin Test	x		x
Chlorine -Total/Free/ Combined Residual	SM 4500-CI G	x	x	x
Conductivity	EPA 120.1		x	
Conductivity	SM 2510B	x	x	x
Corrosivity (Langelier Index)	SM 2330B	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
Glyphosate	EPA 547	x		x
Glyphosate + AMPA	In House Method (3618)	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	Legiolert	x		x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA (2360)	x		x
Microcystin, Total	EPA 546	x		x
NDMA	EPA 521 In house method (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 Phosphorous	SM 4500P E	x		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
Perfluorinated Pollutant	In house Method (2434)	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
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	
Triazine Pesticides & Degradates	In House (3617)	x		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	x		x
VOC	In House Method (2411)	x		x
Yeast and Mold	SM 9610	x		x
Field Sampling	N/A			

Acknowledgement of Samples Received

Addr: **West Slope Water District**
31PO Box 25140
Portland, OR 97298

Attn: Michael Grimm
Phone: 503-292-2777

Client ID: WESTSLOPE-OR
Folder #: 864649
Project: UCMR4
Sample Group: AM1-EP-OR4100660-West Slope
Water District
Project Manager: Vanessa Berry
Phone: 503-310-3905

The following samples were received from you on **April 08, 2020 at 1727**. 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, LLC.

Sample #	Sample ID	Sample Date
202004080595	11940-EP001-Entry Point to Dist. System	04/07/2020 1400
	Sample Type: EP Sample Event: SEA4 Facility ID: 11940 Sample Point ID: EP001 PWSID: OR4100660	
	@UCMR4 200.8 @UCMR4 525.3 @UCMR4 530 @UCMR4 541	

Test Description

- @UCMR4 200.8 -- UCMR4 Metals
- @UCMR4 525.3 -- UCMR4 525.3
- @UCMR4 530 -- UCMR4 530
- @UCMR4 541 -- UCMR4 541



Eaton Analytical

750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016-3629

Phone: 626 386 1100/ 800 566 5227
Fax: 626 386 1101

Website: <http://www.eurofinsus.com/Eaton>

UCMR4 CHAIN OF CUSTODY RECORD

EUROFINS EATON ANALYTICAL USE ONLY:

Folder No:

LOGIN COMMENTS:

SAMPLES CHECKED AGAINST COC BY: *[Signature]*

SAMPLES LOGGED IN BY: *[Signature]*

SAMPLE TEMP RECEIVED Criteria: (recorded in internal COC)

SAMPLES REC'D DAY OF COLLECTION?

(check for yes)

If the sample(s) received:

- same day receipt as sample collection with evidence of cooling, sample temperature $\geq 10^{\circ}\text{C}$ is acceptable
- within the first 48 hours of collection time; sample temperature must be $\leq 10^{\circ}\text{C}$ (except 200.8) and not frozen (except 546), and
- after 48 hours of collection time; sample temperature must be $\leq 6^{\circ}\text{C}$ (except 200.8) and not frozen (except 546), and valid if refrigerated between collection and shipment documented below as "yes."

PWSID: OR 00660

Example: (CA1234567)

For PWS and Intermediate Lab Use ONLY:

Were samples cooled between sample collection and shipment at 10°C , or less, for the first 48 hours and 6°C , or less, thereafter? If yes, please "✓" the box next to yes below. No documentation of cooling of samples between collection and shipment for samples received after 48 hours of sample collection will be rejected.

Intermediate Lab: YES NO

PWS: YES NO

TO BE COMPLETED BY SAMPLER:

(check for yes)

COMPANY/AGENCY NAME:

PROJECT CODE:

- Resample?

if YES, please specify which sample event it is for _____

West Slope Water Dist UCMR4

UCMR4

NOTE: we MUST have PWSID#, Facility ID, Sample Point ID, and Sample event # to be able to upload data to EPA Database (check for yes) OR

EEA CLIENT CODE:

SEE ATTACHED BOTTLE ORDER FOR ANALYSES

(check for yes) OR

TAT requested: rush by adv notice only

list ANALYSES REQUIRED (Mark the number of containers in all test required for each sample line)

SAMPLE DATE	SAMPLE TIME	FACILITY ID (per EPA Requirement) - 5 characters Max	SAMPLE POINT ID (per EPA Requirement) - 20 characters max	SAMPLE EVENT #	ANALYSES								SAMPLER COMMENTS					
					UCMR4 544	UCMR4 545	UCMR4 546	UCMR4 200.8	UCMR4 525.3	UCMR4 530	UCMR4 541	UCMR4 552.3		TOC	Bromide			
<i>4-7-20</i>	<i>2:00pm</i>		<i>Entry Point</i>															
			<i>Sylvan st</i>															
			<i>Fairway DR</i>															
			<i>Kennedy st</i>															
			<i>Poplar Ln</i>															

(1) Sample Event Code: Cyanotoxins -- SEC1 SEC2 SEC3 SEC4 SEC5 SEC6 SEC7 SEC8
 HAAs -- SEH1 SEH2 SEH3 SEH4
 Metals, Pesticides, Alcohols, SVOCs -- SEA1 SEA2 SEA3 SEA4

SAMPLED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
<i>Daniel Gridentar</i>	<i>Daniel Gridentar</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>Daniel Gridentar</i>	<i>DANIEL GRIDENTAR</i>	<i>West Slope Water</i>	<i>4-7-20</i>	<i>2:00 pm</i>
		<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>Jason O'Connell</i>	<i>JASON O'CONNEL</i>	<i>West Slope Water</i>	<i>4-7-20</i>	<i>2:52 pm</i>
		<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>Antonson</i>	<i>ANTONSON</i>	<i>TAFAR</i>	<i>4-7-20</i>	<i>1700 pm</i>
		<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>TAFAR</i>	<i>4-8-20</i>	<i>1727 pm</i>



Kit Order for West Slope Water District

Eaton Analytical

Vanessa Berry is your Eurofins Eaton Analytical, LLC Service Manager

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

Created Date & Time: 2/19/2020 12:47:14AM

Note: Sampler Please return this paper with your samples

Kit #: 257291



Client ID: WESTSLOPE-OR



Created By: - [AutoGenerated]

Deliver By: 03/20/2020

STG: Bottle Orders

Ice Type: W

Project Code: UCMR4 Bottle Orders

Group Name: AM2-DS-OR4100660-West Slope Water District

PO#/JOB#:

Description: Every 3 months - Third\Friday

Ship Sample Kits to
West Slope Water District
3105 SW 89th Avenue
Portland, OR 97225

Attn: Michael Grimm - Shipping
Phone: 503-292-2777

Send Report to
West Slope Water District
31PO Box 25140
Portland, OR 97298

Attn: Michael Grimm
Phone: 503-292-2777

Billing Address
West Slope Water District
31PO Box 25140
Portland, OR 97298

Attn: Michael Grimm
Phone: 503-292-2777

# of Sample Tests	Bottle Qty - Type [preservative information]	Total	UN DOT #
1 @UCMR4 541	3 - 125ml amber glass [6.88 Sulfite +138 mg Bisulfate]	3	
1 @UCMR4 525.3	3 - 1L amber glass [0.1g AA + 0.35 EDTA + 9.4 g KHC]	3	
1 @UCMR4 530	3 - 1L amber glass [8.52g Trizma+0.11g AA+0.41 EDTA+1.1g DU]	3	
1 @UCMR4 200.8	1 - 250 ml poly [no preservative]	1	
4 @UCMR4 552.3	1 - 250ml amber glass [25 mg NH4CL]	4	
Sum Tests: 8		Sum Bottles: 14	

Sum Bottles: 14

Comments

Include return shipping labels
UCMR4 COC/sampling instructions
wet ice packing instructions

Fill sample containers to the neck of the bottle and thoroughly mix sample.

UCMR4 INTERNAL CHAIN OF CUSTODY RECORD

EEA Folder Number: 24446

SAMPLES RECEIVED WITHIN 48 HOURS OF COLLECTION TIME?

TYPE OF ICE: Real Synthetic No Ice

CONDITION OF ICE: Frozen Partially Frozen Thawed N/A

CONDITION OF SAMPLE: Frozen Partially Frozen Not Frozen

METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx / URS / DHL / Area Fast / Top Line / Other: _____

Compliance Acceptance Criteria:

If sample(s) received:

- 1) on the same day as the collection day; sample temperature may be $\geq 10^{\circ}\text{C}$ with evidence of cooling;
- 2) within the first 48 hours of collection time; sample temperature must be $\leq 10^{\circ}\text{C}$ (except 200.8) and not frozen (except 546), and
- 3) after 48 hours of collection time; sample temperature must be $\leq 6^{\circ}\text{C}$ (except 200.8) and not frozen (except 546), and not rejected if refrigerated between collection and shipment documented on UCMR4 COC as "yes."



Note: A minimum of 1 bottle for every analytical method must be checked for temperature. If the bottle that is checked does not meet the temperature criterion, then the sample bottle is rejected. The temperature of the other samples collected for that method is checked to determine if a valid sample was received.

Facility ID & Unique Field Sample ID _____

IR Gun ID = 649A

Method	Container ID	Observation (°C)	Correction Factor (°C)	Final (°C)
UCMR4 2008	1	1.5	-0.3	1.2
UCMR4 525.3	1	3.1	-0.3	2.8
	2		+	=
	3		+	=
UCMR4 530	1	3.2	-0.3	2.9
	2		+	=
UCMR4 541	1	2.8	-0.3	2.5
	2		+	=
	3		+	=
UCMR4 552.3	1		+	=
TGC (5310C)	1		+	=
Bromide (300.0)	1		+	=

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

SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
<i>[Signature]</i>	Paul Hild	Eurofins Eaton Analytical	4.8.20	1727

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

Laboratory Comments

Report: 864649
Project: UCMR4
Group: AM1-EP-OR4100660-West Slope
Water District

West Slope Water District
Michael Grimm
31PO Box 25140
Portland, OR 97298

Tel: (626) 386-1100
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Laboratory Hits

Report: 864649
Project: UCMR4
Group: AM1-EP-OR4100660-West Slope
 Water District

West Slope Water District
 Michael Grimm
 31PO Box 25140
 Portland, OR 97298

Samples Received on:
 04/08/2020 1727

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
04/23/2020 12:00	Manganese Total ICAP/MS	202004080595 <u>11940-EP001-Entry Point to Dist. System</u>	1.4		ug/L	0.40

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West Slope Water District
 Michael Grimm
 31PO Box 25140
 Portland, OR 97298

Samples Received on:
 04/08/2020 1727

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
11940-EP001-Entry Point to Dist. System (202004080595)					Sampled on 04/07/2020 1400				
Sample Type: EP									
Sample Event: SEA4									
Facility ID: 11940									
Sample Point ID: EP001									
PWSID: OR4100660									
UCMR4 200.8 - UCMR4 Metals									
04/23/20	12:00	1242812	1243779	(UCMR4 200.8)	Germanium Total ICAP/MS	ND	ug/L	0.30	1
04/23/20	12:00	1242812	1243779	(UCMR4 200.8)	Manganese Total ICAP/MS	1.4	ug/L	0.40	1
04/23/20	12:00	1242812	1243779	(UCMR4 200.8)	Indium (115)	96	%		1
04/23/20	12:00	1242812	1243779	(UCMR4 200.8)	Yttrium (89)	98	%		1
EPA 525.3 - UCMR4 525.3									
04/14/20	04/17/20 14:23	1241286	1242924	(EPA 525.3)	alpha-HCH	ND	ug/L	0.010	1
04/14/20	04/17/20 14:23	1241286	1242924	(EPA 525.3)	Chlorpyrifos	ND	ug/L	0.030	1
04/14/20	04/17/20 14:23	1241286	1242924	(EPA 525.3)	Dimethipin	ND	ug/L	0.20	1
04/14/20	04/17/20 14:23	1241286	1242924	(EPA 525.3)	Ethoprop	ND	ug/L	0.030	1
04/14/20	04/17/20 14:23	1241286	1242924	(EPA 525.3)	Oxyfluorfen	ND	ug/L	0.050	1
04/14/20	04/17/20 14:23	1241286	1242924	(EPA 525.3)	Profenofos	ND	ug/L	0.30	1
04/14/20	04/17/20 14:23	1241286	1242924	(EPA 525.3)	Tebuconazole	ND	ug/L	0.20	1
04/14/20	04/17/20 14:23	1241286	1242924	(EPA 525.3)	Total Permethrin (trans & cis)	ND	ug/L	0.040	1
04/14/20	04/17/20 14:23	1241286	1242924	(EPA 525.3)	Tribufos	ND	ug/L	0.070	1
04/14/20	04/17/20 14:23	1241286	1242924	(EPA 525.3)	1,3-Dimethyl-2-nitrobenzene	83	%		1
04/14/20	04/17/20 14:23	1241286	1242924	(EPA 525.3)	acenaphthene-d10	108	%		1
04/14/20	04/17/20 14:23	1241286	1242924	(EPA 525.3)	Benzo[a]pyrene-d12	85	%		1
04/14/20	04/17/20 14:23	1241286	1242924	(EPA 525.3)	chrysene-d12	130	%		1
04/14/20	04/17/20 14:23	1241286	1242924	(EPA 525.3)	phenanthrene-d10	110	%		1
04/14/20	04/17/20 14:23	1241286	1242924	(EPA 525.3)	Triphenyl Phosphate	80	%		1
EPA 541 - UCMR4 541									
04/13/20	04/14/20 19:20	1241119	1241683	(EPA 541)	1-Butanol	ND	ug/L	2.0	1
04/13/20	04/14/20 19:20	1241119	1241683	(EPA 541)	2-Methoxyethanol	ND	ug/L	0.40	1
04/13/20	04/14/20 19:20	1241119	1241683	(EPA 541)	2-Propen-1-ol	ND	ug/L	0.50	1
04/13/20	04/14/20 19:20	1241119	1241683	(EPA 541)	1-Butanol-d10	92	%		1
04/13/20	04/14/20 19:20	1241119	1241683	(EPA 541)	Chlorobenzene-d5	116	%		1
EPA 530 - UCMR4 530									
04/14/20	04/16/20 15:44	1241411	1242372	(EPA 530)	Butylated hydroxyanisole	ND	ug/L	0.030	1
04/14/20	04/16/20 15:44	1241411	1242372	(EPA 530)	O-Toluidine	ND	ug/L	0.0070	1
04/14/20	04/16/20 15:44	1241411	1242372	(EPA 530)	Quinoline	ND	ug/L	0.020	1
04/14/20	04/16/20 15:44	1241411	1242372	(EPA 530)	acenaphthene-d10	94	%		1
04/14/20	04/16/20 15:44	1241411	1242372	(EPA 530)	o-Toluidine-d9	78	%		1

Rounding on totals after summation.
 (c) - indicates calculated results. Analysis is a calculated result. Reported results are not rounded until the final step before reporting. Therefore methods that use a test result with further calculation may have slight differences in final result than the component analyses.

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Laboratory Data

Report: 864649
Project: UCMR4
Group: AM1-EP-OR4100660-West Slope
 Water District

West Slope Water District

Michael Grimm
 31PO Box 25140
 Portland, OR 97298

Samples Received on:
 04/08/2020 1727

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
04/14/20	04/16/20 15:44	1241411	1242372	(EPA 530)	phenanthrene-d10	99	%		1
04/14/20	04/16/20 15:44	1241411	1242372	(EPA 530)	Quinoline-d7	96	%		1

Rounding on totals after summation.
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West Slope Water District

UCMR4 541

Prep Batch: 1241119 Analytical Batch: 1241683

202004080595 11940-EP001-Entry Point to Dist. System

Analysis Date: 04/14/2020

Analyzed by: X8AA

UCMR4 530

Prep Batch: 1241411 Analytical Batch: 1242372

202004080595 11940-EP001-Entry Point to Dist. System

Analysis Date: 04/16/2020

Analyzed by: QMN6

UCMR4 525.3

Prep Batch: 1241286 Analytical Batch: 1242924

202004080595 11940-EP001-Entry Point to Dist. System

Analysis Date: 04/17/2020

Analyzed by: QMN6

UCMR4 Metals

Prep Batch: 1242812 Analytical Batch: 1243779

202004080595 11940-EP001-Entry Point to Dist. System

Analysis Date: 04/23/2020

Analyzed by: LUPE

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West Slope Water District

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
UCMR4 541 by EPA 541									
Analytical Batch: 1241683					Analysis Date: 04/14/2020				
CCCH	1-Butanol		40	40.1	ug/L	100	(70-130)		
CCCL	1-Butanol		2	2.00	ug/L	100	(50-150)		
CCCM	1-Butanol		20	20.0	ug/L	100	(70-130)		
MBLK	1-Butanol			<0.67	ug/L				
MRL_CHK	1-Butanol		2	1.92	ug/L	96	(50-150)		
MS_202004010202	1-Butanol	ND	2	2.00	ug/L	100	(50-150)		
MSD_202004010202	1-Butanol	ND	2	2.08	ug/L	104	(50-150)	50	4.0
CCCH	1-Butanol-d10 (S)			102	%	102	(70-130)		
CCCL	1-Butanol-d10 (S)			101	%	101	(70-130)		
CCCM	1-Butanol-d10 (S)			100	%	100	(70-130)		
MBLK	1-Butanol-d10 (S)			89.3	%	89	(70-130)		
MRL_CHK	1-Butanol-d10 (S)			92.6	%	93	(70-130)		
MS_202004010202	1-Butanol-d10 (S)			88.6	%	89	(70-130)		
MSD_202004010202	1-Butanol-d10 (S)			93.2	%	93	(70-130)		
CCCH	2-Methoxyethanol		8	6.69	ug/L	84	(70-130)		
CCCL	2-Methoxyethanol		0.4	0.386	ug/L	97	(50-150)		
CCCM	2-Methoxyethanol		4	2.88	ug/L	72	(70-130)		
MBLK	2-Methoxyethanol			<0.13	ug/L				
MRL_CHK	2-Methoxyethanol		0.4	0.344	ug/L	86	(50-150)		
MS_202004010202	2-Methoxyethanol	ND	0.4	0.356	ug/L	89	(50-150)		
MSD_202004010202	2-Methoxyethanol	ND	0.4	0.293	ug/L	73	(50-150)	50	19
CCCH	2-Propen-1-ol		10	9.83	ug/L	98	(70-130)		
CCCL	2-Propen-1-ol		0.5	0.495	ug/L	99	(50-150)		
CCCM	2-Propen-1-ol		5	4.98	ug/L	100	(70-130)		
MBLK	2-Propen-1-ol			<0.17	ug/L				
MRL_CHK	2-Propen-1-ol		0.5	0.317	ug/L	63	(50-150)		
MS_202004010202	2-Propen-1-ol	ND	0.5	0.366	ug/L	73	(50-150)		
MSD_202004010202	2-Propen-1-ol	ND	0.5	0.391	ug/L	78	(50-150)	50	6.6
CCCH	Chlorobenzene-d5 (I)			108	%	108	(70-130)		
CCCL	Chlorobenzene-d5 (I)			94.8	%	95	(70-130)		
CCCM	Chlorobenzene-d5 (I)			92.5	%	93	(70-130)		
MBLK	Chlorobenzene-d5 (I)			121	%	121	(70-130)		
MRL_CHK	Chlorobenzene-d5 (I)			110	%	110	(70-130)		
MS_202004010202	Chlorobenzene-d5 (I)			119	%	119	(70-130)		
MSD_202004010202	Chlorobenzene-d5 (I)			78.4	%	78	(70-130)		

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West Slope Water District

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
UCMR4 530 by EPA 530									
Analytical Batch: 1242372					Analysis Date: 04/16/2020				
CCCH	acenaphthene-d10 (I)			92.8	%	93	(70-130)		
CCCL	acenaphthene-d10 (I)			100	%	100	(70-130)		
CCCM	acenaphthene-d10 (I)			104	%	104	(70-130)		
MBLK	acenaphthene-d10 (I)			78.5	%	79	(70-130)		
MRL_CHK	acenaphthene-d10 (I)			87.9	%	88	(70-130)		
MS_202004080393	acenaphthene-d10 (I)			83.6	%	84	(70-130)		
MSD_202004080393	acenaphthene-d10 (I)			92.7	%	93	(70-130)		
CCCH	Butylated hydroxyanisole		0.2	0.195	ug/L	97	(70-130)		
CCCL	Butylated hydroxyanisole		0.03	0.0244	ug/L	81	(50-150)		
CCCM	Butylated hydroxyanisole		0.1	0.0963	ug/L	96	(70-130)		
MBLK	Butylated hydroxyanisole			<0.01	ug/L				
MRL_CHK	Butylated hydroxyanisole		0.03	0.0189	ug/L	63	(50-150)		
MS_202004080393	Butylated hydroxyanisole	ND	0.03	0.0233	ug/L	78	(50-150)		
MSD_202004080393	Butylated hydroxyanisole	ND	0.03	0.0247	ug/L	82	(50-150)	50	5.6
CCCH	O-Toluidine		0.2	0.228	ug/L	114	(70-130)		
CCCL	O-Toluidine		0.007	0.00838	ug/L	120	(50-150)		
CCCM	O-Toluidine		0.1	0.110	ug/L	110	(70-130)		
MBLK	O-Toluidine			<0.0023	ug/L				
MRL_CHK	O-Toluidine		0.007	0.00733	ug/L	105	(50-150)		
MS_202004080393	O-Toluidine	ND	0.007	0.00742	ug/L	106	(50-150)		
MSD_202004080393	O-Toluidine	ND	0.007	0.00741	ug/L	106	(50-150)	50	0.19
CCCH	o-Toluidine-d9 (S)			115	%	115	(50-130)		
CCCL	o-Toluidine-d9 (S)			113	%	113	(50-130)		
CCCM	o-Toluidine-d9 (S)			110	%	110	(50-130)		
MBLK	o-Toluidine-d9 (S)			100	%	100	(50-130)		
MRL_CHK	o-Toluidine-d9 (S)			96.0	%	96	(50-130)		
MS_202004080393	o-Toluidine-d9 (S)			91.4	%	91	(50-130)		
MSD_202004080393	o-Toluidine-d9 (S)			93.9	%	94	(50-130)		
CCCH	phenanthrene-d10 (I)			91.9	%	92	(70-130)		
CCCL	phenanthrene-d10 (I)			100	%	100	(70-130)		
CCCM	phenanthrene-d10 (I)			109	%	109	(70-130)		
MBLK	phenanthrene-d10 (I)			78.7	%	79	(70-130)		
MRL_CHK	phenanthrene-d10 (I)			91.5	%	92	(70-130)		
MS_202004080393	phenanthrene-d10 (I)			87.8	%	88	(70-130)		
MSD_202004080393	phenanthrene-d10 (I)			93.7	%	94	(70-130)		

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West Slope Water District

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
CCCH	Quinoline		0.2	0.203	ug/L	102	(70-130)		
CCCL	Quinoline		0.02	0.0205	ug/L	103	(50-150)		
CCCM	Quinoline		0.1	0.106	ug/L	106	(70-130)		
MBLK	Quinoline			<0.0067	ug/L				
MRL_CHK	Quinoline		0.02	0.0192	ug/L	96	(50-150)		
MS_202004080393	Quinoline	ND	0.02	0.0184	ug/L	92	(50-150)		
MSD_202004080393	Quinoline	ND	0.02	0.0186	ug/L	93	(50-150)	50	1.3
CCCH	Quinoline-d7 (S)			100	%	100	(70-130)		
CCCL	Quinoline-d7 (S)			100	%	100	(70-130)		
CCCM	Quinoline-d7 (S)			102	%	102	(70-130)		
MBLK	Quinoline-d7 (S)			92.7	%	93	(70-130)		
MRL_CHK	Quinoline-d7 (S)			95.8	%	96	(70-130)		
MS_202004080393	Quinoline-d7 (S)			96.4	%	96	(70-130)		
MSD_202004080393	Quinoline-d7 (S)			97.6	%	98	(70-130)		

UCMR4 525.3 by EPA 525.3

Analytical Batch: 1242924

Analysis Date: 04/17/2020

CCCL	1,3-Dimethyl-2-nitrobenzene (S)			102	%	102	(70-130)		
CCCM	1,3-Dimethyl-2-nitrobenzene (S)			99.7	%	100	(70-130)		
MBLK	1,3-Dimethyl-2-nitrobenzene (S)			90.2	%	90	(70-130)		
MRL_CHK	1,3-Dimethyl-2-nitrobenzene (S)			85.6	%	86	(70-130)		
MS1_202004080583	1,3-Dimethyl-2-nitrobenzene (S)			79.0	%	79	(70-130)		
MSD1_202004080583	1,3-Dimethyl-2-nitrobenzene (S)			73.1	%	73	(70-130)		
CCCL	acenaphthene-d10 (I)			100	%	100	(70-130)		
CCCM	acenaphthene-d10 (I)			111	%	111	(70-130)		
MBLK	acenaphthene-d10 (I)			100	%	100	(70-130)		
MRL_CHK	acenaphthene-d10 (I)			101	%	101	(70-130)		
MS1_202004080583	acenaphthene-d10 (I)			99.8	%	100	(70-130)		
MSD1_202004080583	acenaphthene-d10 (I)			107	%	107	(70-130)		
CCCL	alpha-HCH		0.01	0.0116	ug/L	116	(50-150)		
CCCM	alpha-HCH		0.1	0.101	ug/L	101	(70-130)		
MBLK	alpha-HCH			<0.0033	ug/L				
MRL_CHK	alpha-HCH		0.01	0.0106	ug/L	106	(50-150)		
MS1_202004080583	alpha-HCH	ND	0.1	0.0980	ug/L	98	(70-130)		
MSD1_202004080583	alpha-HCH	ND	0.1	0.0870	ug/L	87	(70-130)	50	12
CCCL	Benzo[a]pyrene-d12 (S)			102	%	102	(70-130)		
CCCM	Benzo[a]pyrene-d12 (S)			103	%	103	(70-130)		
MBLK	Benzo[a]pyrene-d12 (S)			87.6	%	88	(70-130)		

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West Slope Water District

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MRL_CHK	Benzo[a]pyrene-d12 (S)			86.6	%	87	(70-130)		
MS1_202004080583	Benzo[a]pyrene-d12 (S)			90.4	%	90	(70-130)		
MSD1_202004080583	Benzo[a]pyrene-d12 (S)			77.4	%	77	(70-130)		
CCCL	Chlorpyrifos		0.03	0.0251	ug/L	84	(50-150)		
CCCM	Chlorpyrifos		0.1	0.0984	ug/L	99	(70-130)		
MBLK	Chlorpyrifos			<0.01	ug/L				
MRL_CHK	Chlorpyrifos		0.03	0.0237	ug/L	79	(50-150)		
MS1_202004080583	Chlorpyrifos	ND	0.1	0.0959	ug/L	96	(70-130)		
MSD1_202004080583	Chlorpyrifos	ND	0.1	0.0914	ug/L	91	(70-130)	50	4.8
CCCL	chrysene-d12 (I)			100	%	100	(70-130)		
CCCM	chrysene-d12 (I)			115	%	115	(70-130)		
MBLK	chrysene-d12 (I)			91.8	%	92	(70-130)		
MRL_CHK	chrysene-d12 (I)			98.6	%	99	(70-130)		
MS1_202004080583	chrysene-d12 (I)			112	%	112	(70-130)		
MSD1_202004080583	chrysene-d12 (I)			102	%	102	(70-130)		
CCCL	Dimethipin		0.2	0.200	ug/L	100	(50-150)		
CCCM	Dimethipin		1	0.981	ug/L	98	(70-130)		
MBLK	Dimethipin			<0.067	ug/L				
MRL_CHK	Dimethipin		0.2	0.206	ug/L	103	(50-150)		
MS1_202004080583	Dimethipin	ND	1	0.993	ug/L	99	(70-130)		
MSD1_202004080583	Dimethipin	ND	1	0.882	ug/L	88	(70-130)	50	12
CCCL	Ethoprop		0.03	0.0268	ug/L	90	(50-150)		
CCCM	Ethoprop		0.1	0.103	ug/L	103	(70-130)		
MBLK	Ethoprop			<0.010	ug/L				
MRL_CHK	Ethoprop		0.03	0.0290	ug/L	97	(50-150)		
MS1_202004080583	Ethoprop	ND	0.1	0.105	ug/L	105	(70-130)		
MSD1_202004080583	Ethoprop	ND	0.1	0.0925	ug/L	93	(70-130)	50	13
CCCL	Oxyfluorfen		0.05	0.0517	ug/L	103	(50-150)		
CCCM	Oxyfluorfen		0.1	0.129	ug/L	129	(70-130)		
MBLK	Oxyfluorfen			<0.017	ug/L				
MRL_CHK	Oxyfluorfen		0.05	0.0535	ug/L	107	(50-150)		
MS1_202004080583	Oxyfluorfen	ND	0.1	0.138	ug/L	<u>138</u>	(70-130)		
MSD1_202004080583	Oxyfluorfen	ND	0.1	0.132	ug/L	<u>132</u>	(70-130)	50	4.1
CCCL	phenanthrene-d10 (I)			100	%	100	(70-130)		
CCCM	phenanthrene-d10 (I)			111	%	111	(70-130)		
MBLK	phenanthrene-d10 (I)			96.6	%	97	(70-130)		
MRL_CHK	phenanthrene-d10 (I)			99.5	%	99	(70-130)		
MS1_202004080583	phenanthrene-d10 (I)			101	%	101	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MSD1_202004080583	phenanthrene-d10 (I)			105	%	105	(70-130)		
CCCL	Profenofos		0.3	0.270	ug/L	90	(50-150)		
CCCM	Profenofos		1	0.907	ug/L	91	(70-130)		
MBLK	Profenofos			<0.10	ug/L				
MRL_CHK	Profenofos		0.3	0.272	ug/L	91	(50-150)		
MS1_202004080583	Profenofos	ND	1	1.13	ug/L	113	(70-130)		
MSD1_202004080583	Profenofos	ND	1	1.03	ug/L	103	(70-130)	50	9.3
CCCL	Tebuconazole		0.2	0.208	ug/L	104	(50-150)		
CCCM	Tebuconazole		1	0.990	ug/L	99	(70-130)		
MBLK	Tebuconazole			<0.067	ug/L				
MRL_CHK	Tebuconazole		0.2	0.222	ug/L	111	(50-150)		
MS1_202004080583	Tebuconazole	ND	1	1.12	ug/L	112	(70-130)		
MSD1_202004080583	Tebuconazole	ND	1	1.16	ug/L	117	(70-130)	50	4.6
CCCL	Total Permethrin (trans & cis)		0.04	0.0444	ug/L	111	(50-150)		
CCCM	Total Permethrin (trans & cis)		0.2	0.184	ug/L	92	(70-130)		
MBLK	Total Permethrin (trans & cis)			<0.013	ug/L				
MRL_CHK	Total Permethrin (trans & cis)		0.04	0.0445	ug/L	111	(50-150)		
MS1_202004080583	Total Permethrin (trans & cis)	ND	0.2	0.183	ug/L	92	(70-130)		
MSD1_202004080583	Total Permethrin (trans & cis)	ND	0.2	0.187	ug/L	94	(70-130)	50	2.2
CCCL	Tribufos		0.07	0.0653	ug/L	93	(50-150)		
CCCM	Tribufos		0.1	0.0981	ug/L	98	(70-130)		
MBLK	Tribufos			<0.023	ug/L				
MRL_CHK	Tribufos		0.07	0.0727	ug/L	104	(50-150)		
MS1_202004080583	Tribufos	ND	0.1	0.110	ug/L	111	(70-130)		
MSD1_202004080583	Tribufos	ND	0.1	0.104	ug/L	104	(70-130)	50	6.1
CCCL	Triphenyl Phosphate (S)			92.5	%	92	(70-130)		
CCCM	Triphenyl Phosphate (S)			92.7	%	93	(70-130)		
MBLK	Triphenyl Phosphate (S)			89.9	%	90	(70-130)		
MRL_CHK	Triphenyl Phosphate (S)			90.6	%	91	(70-130)		
MS1_202004080583	Triphenyl Phosphate (S)			87.3	%	87	(70-130)		
MSD1_202004080583	Triphenyl Phosphate (S)			87.7	%	88	(70-130)		

UCMR4 Metals by UCMR4 200.8

Analytical Batch: 1243779

Analysis Date: 04/23/2020

CCCH	Germanium Total ICAP/MS		60	61.2	ug/L	102	(85-115)		
CCCL	Germanium Total ICAP/MS		0.3	0.313	ug/L	104	(50-150)		
CCCM	Germanium Total ICAP/MS		30	32.1	ug/L	107	(85-115)		
LCS1	Germanium Total ICAP/MS		30	30.1	ug/L	100	(90-110)		

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 Water District

West Slope Water District

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MBLK	Germanium Total ICAP/MS			<0.3	ug/L				
MRL_CHK	Germanium Total ICAP/MS		0.3	0.295	ug/L	98	(50-150)		
MS_202004070267	Germanium Total ICAP/MS	ND	30	32.0	ug/L	106	(70-130)		
MSD_202004070267	Germanium Total ICAP/MS	ND	30	32.1	ug/L	107	(70-130)	20	0.46
CCCH	Indium (115) (I)		100	98.4	%	98	(60-125)		
CCCL	Indium (115) (I)		100	100	%	100	(60-125)		
CCCM	Indium (115) (I)		100	98.3	%	98	(60-125)		
LCS1	Indium (115) (I)		100	100	%	100	(60-125)		
MBLK	Indium (115) (I)			98.3	%	98	(60-125)		
MRL_CHK	Indium (115) (I)		100	99.9	%	100	(60-125)		
MS_202004070267	Indium (115) (I)		100	95.9	%	96	(60-125)		
MSD_202004070267	Indium (115) (I)		100	94.4	%	94	(60-125)		
CCCH	Manganese Total ICAP/MS		80	83.5	ug/L	104	(85-115)		
CCCL	Manganese Total ICAP/MS		0.4	0.416	ug/L	104	(50-150)		
CCCM	Manganese Total ICAP/MS		40	41.0	ug/L	103	(85-115)		
LCS1	Manganese Total ICAP/MS		40	40.8	ug/L	102	(90-110)		
MBLK	Manganese Total ICAP/MS			<0.4	ug/L				
MRL_CHK	Manganese Total ICAP/MS		0.4	0.400	ug/L	100	(50-150)		
MS_202004070267	Manganese Total ICAP/MS	1.0	40	40.5	ug/L	99	(70-130)		
MSD_202004070267	Manganese Total ICAP/MS	1.0	40	40.9	ug/L	100	(70-130)	20	0.95
CCCH	Yttrium (89) (I)		100	99.4	%	99	(60-125)		
CCCL	Yttrium (89) (I)		100	100	%	100	(60-125)		
CCCM	Yttrium (89) (I)		100	99.8	%	100	(60-125)		
LCS1	Yttrium (89) (I)		100	97.9	%	98	(60-125)		
MBLK	Yttrium (89) (I)			98.8	%	99	(60-125)		
MRL_CHK	Yttrium (89) (I)		100	100	%	100	(60-125)		
MS_202004070267	Yttrium (89) (I)		100	97.7	%	98	(60-125)		
MSD_202004070267	Yttrium (89) (I)		100	96.7	%	97	(60-125)		

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.