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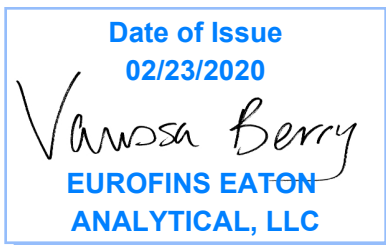


AT-1807

## Laboratory Report

for

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



UTAH ELCP CA00006

Report:847883  
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 <sup>-</sup> D		x	
Sulfite	SM 4500-SO <sup>3</sup> 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 #: 847883  
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 **January 08, 2020** at **1518**. 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
202001080399	11940-EP001-Entry Point to Dist. System	01/07/2020 1300
	Sample Type: EP Sample Event: SEA3 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

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Fax: 626 386 1101

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

# UCMR4 CHAIN OF CUSTODY RECORD

EUROFINS EATON ANALYTICAL USE ONLY

Folder No:

LOGIN COMMENTS:

SAMPLES CHECKED AGAINST COC BY: DB  
SAMPLES LOGGED IN BY: DB  
SAMPLES REC'D DAY OF COLLECTION?  (check for yes)

SAMPLE TEMP RECEIVED Criteria: (recorded in internal COC)  
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: 0100660

Example: (CA1234567)

For PWS and Intermediate Lab Use ONLY:

Were samples cooled between sample collection and shipment at  $10^{\circ}\text{C}$ , or less, for the first 48 hours and  $6^{\circ}\text{C}$ , 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: WEST Slope Water Dist.

PROJECT CODE: UCMR4

- Resample?

if YES, please specify which sample event it is for \_\_\_\_\_

EEA CLIENT CODE: \_\_\_\_\_

SAMPLE GROUP: 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

SEE ATTACHED BOTTLE ORDER FOR ANALYSES

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 #	STD				TOC	Bromide	SAMPLER COMMENTS
					1 wk	3 day	2 day	1 day			
1-7-20	1:00p		Entry Point								
			Sylvan CT.								
			Fairway DR.								
			Kennedy ST.								
			Paplar Ln.								

(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:	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
RELINQUISHED BY:	<u>Bart Johnson</u>	<u>Bart Johnson</u>	<u>West Slope Water Dist.</u>	<u>1-7-20</u>	<u>1:00 P</u>
RECEIVED BY:	<u>Vanessa Berry</u>	<u>Vanessa Berry</u>	<u>SEA</u>	<u>1-7-20</u>	<u>1345</u>
RELINQUISHED BY:	<u>Vanessa Berry</u>	<u>Vanessa Berry</u>	<u>SEA</u>	<u>1-7-20</u>	<u>1400</u>
RECEIVED BY:	<u>Cher Bond</u>	<u>Cher Bond</u>	<u>SEA</u>	<u>1-8-20</u>	<u>1518</u>



## UCMR4 INTERNAL CHAIN OF CUSTODY RECORD

EEA Folder Number: 847883

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 / UPS / DHL / Area Fast / Top Line / Other: \_\_\_\_\_

Compliance Acceptance Criteria: 141005903064

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 11940-EP001  
 IR Gun ID = 6168

Method	Container ID	Observation (°C)	Correction Factor (°C)	Final (°C)	Method	Container ID	Observation (°C)	Correction Factor (°C)	Final (°C)
UCMR4 2008	1	2.8	+0.3	= 2.5	UCMR4 544	1	+	=	
UCMR4 525.3	1	3.8	+0.3	= 3.5		2	+	=	
	2		+	=		3	+	=	
	3		+	=	UCMR4 545	1	+	=	
UCMR4 530	1	3.7	+0.3	= 3.4	UCMR4 546	1	+	=	
	2		+	=					
	3		+	=					
UCMR4 541	1	4.0	+0.3	= 3.7					
	2		+	=					
	3		+	=					
UCMR4 552.3	1	3.4	+0.3	= 3.1					
TOC (5310C)	1		+	=					
Bromide (300.0)	1		+	=					

← 11944-SITE 1

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

RECEIVED BY	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
	<u>Chuck Brooks</u>	<u>Chuck Brooks</u>	Eurofins Eaton Analytical	<u>11-8-20</u>	<u>1518</u>

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

**Laboratory Comments****Report:** 847883**Project:** UCMR4**Group:** AM1-EP-OR4100660-West Slope  
Water District

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

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Laboratory Hits

**Report:** 847883  
**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:  
 01/08/2020 1518

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
02/20/2020 15:27	Manganese Total ICAP/MS	<b>11940-EP001-Entry Point to Dist. System</b>	2.9		ug/L	0.40



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**Group:** AM1-EP-OR4100660-West Slope Water District

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

Samples Received on:  
 01/08/2020 1518

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
<b>11940-EP001-Entry Point to Dist. System (202001080399)</b>					<b>Sampled on 01/07/2020 1300</b>				
Sample Type: EP									
Sample Event: SEA3									
Facility ID: 11940									
Sample Point ID: EP001									
PWSID: OR4100660									
<b>UCMR4 200.8 - UCMR4 Metals</b>									
02/20/20 15:27		1225570	1229227	(UCMR4 200.8)	Germanium Total ICAP/MS	ND	ug/L	0.30	1
02/20/20 15:27		1225570	1229227	(UCMR4 200.8)	Manganese Total ICAP/MS	2.9	ug/L	0.40	1
02/20/20 15:27		1225570	1229227	(UCMR4 200.8)	Indium (115)	101	%		1
02/20/20 15:27		1225570	1229227	(UCMR4 200.8)	Yttrium (89)	102	%		1
<b>EPA 525.3 - UCMR4 525.3</b>									
01/13/20	01/14/20 19:44	1220730	1221275	(EPA 525.3)	alpha-HCH	ND	ug/L	0.010	1
01/13/20	01/14/20 19:44	1220730	1221275	(EPA 525.3)	Chlorpyrifos	ND	ug/L	0.030	1
01/13/20	01/14/20 19:44	1220730	1221275	(EPA 525.3)	Dimethipin	ND	ug/L	0.20	1
01/13/20	01/14/20 19:44	1220730	1221275	(EPA 525.3)	Ethoprop	ND	ug/L	0.030	1
01/13/20	01/14/20 19:44	1220730	1221275	(EPA 525.3)	Oxyfluorfen	ND	ug/L	0.050	1
01/13/20	01/14/20 19:44	1220730	1221275	(EPA 525.3)	Profenofos	ND	ug/L	0.30	1
01/13/20	01/14/20 19:44	1220730	1221275	(EPA 525.3)	Tebuconazole	ND	ug/L	0.20	1
01/13/20	01/14/20 19:44	1220730	1221275	(EPA 525.3)	Total Permethrin (trans & cis)	ND	ug/L	0.040	1
01/13/20	01/14/20 19:44	1220730	1221275	(EPA 525.3)	Tribufos	ND	ug/L	0.070	1
01/13/20	01/14/20 19:44	1220730	1221275	(EPA 525.3)	1,3-Dimethyl-2-nitrobenzene	80	%		1
01/13/20	01/14/20 19:44	1220730	1221275	(EPA 525.3)	acenaphthene-d10	103	%		1
01/13/20	01/14/20 19:44	1220730	1221275	(EPA 525.3)	Benzo[a]pyrene-d12	80	%		1
01/13/20	01/14/20 19:44	1220730	1221275	(EPA 525.3)	chrysene-d12	106	%		1
01/13/20	01/14/20 19:44	1220730	1221275	(EPA 525.3)	phenanthrene-d10	106	%		1
01/13/20	01/14/20 19:44	1220730	1221275	(EPA 525.3)	Triphenyl Phosphate	87	%		1
<b>EPA 541 - UCMR4 541</b>									
01/10/20	01/13/20 22:57	1220375	1220860	(EPA 541)	1-Butanol	ND	ug/L	2.0	1
01/10/20	01/13/20 22:57	1220375	1220860	(EPA 541)	2-Methoxyethanol	ND	ug/L	0.40	1
01/10/20	01/13/20 22:57	1220375	1220860	(EPA 541)	2-Propen-1-ol	ND	ug/L	0.50	1
01/10/20	01/13/20 22:57	1220375	1220860	(EPA 541)	1-Butanol-d10	83	%		1
01/10/20	01/13/20 22:57	1220375	1220860	(EPA 541)	Chlorobenzene-d5	104	%		1
<b>EPA 530 - UCMR4 530</b>									
01/16/20	01/21/20 13:42	1221729	1221374	(EPA 530)	Butylated hydroxyanisole	ND	ug/L	0.030	1
01/16/20	01/21/20 13:42	1221729	1221374	(EPA 530)	O-Toluidine	ND	ug/L	0.0070	1
01/16/20	01/21/20 13:42	1221729	1221374	(EPA 530)	Quinoline	ND	ug/L	0.020	1
01/16/20	01/21/20 13:42	1221729	1221374	(EPA 530)	acenaphthene-d10	100	%		1
01/16/20	01/21/20 13:42	1221729	1221374	(EPA 530)	o-Toluidine-d9	65	%		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:** 847883  
**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:  
01/08/2020 1518

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Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
01/16/20	01/21/20 13:42	1221729	1221374	(EPA 530)	phenanthrene-d10	102	%		1
01/16/20	01/21/20 13:42	1221729	1221374	(EPA 530)	Quinoline-d7	94	%		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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West Slope Water District

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**UCMR4 541**

**Prep Batch: 1220375 Analytical Batch: 1220860**

202001080399 11940-EP001-Entry Point to Dist. System

**Analysis Date: 01/13/2020**

Analyzed by: X8AA

**UCMR4 525.3**

**Prep Batch: 1220730 Analytical Batch: 1221275**

202001080399 11940-EP001-Entry Point to Dist. System

**Analysis Date: 01/14/2020**

Analyzed by: QMN6

**UCMR4 530**

**Prep Batch: 1221729 Analytical Batch: 1221374**

202001080399 11940-EP001-Entry Point to Dist. System

**Analysis Date: 01/21/2020**

Analyzed by: QMN6

**UCMR4 Metals**

**Prep Batch: 1225570 Analytical Batch: 1229227**

202001080399 11940-EP001-Entry Point to Dist. System

**Analysis Date: 02/20/2020**

Analyzed by: LUPE

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 Fax: (626) 988-3757  
 1 800 566 LABS (1 800 566 5227)

Report: 847883  
 Project: UCMR4  
 Group: AM1-EP-OR4100660-West Slope Water District

West Slope Water District

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
<b>UCMR4 541 by EPA 541</b>									
<b>Analytical Batch: 1220860</b>					<b>Analysis Date: 01/13/2020</b>				
CCCH	1-Butanol		40	42.1	ug/L	105	(70-130)		
CCCL	1-Butanol		2	2.09	ug/L	104	(50-150)		
CCCM	1-Butanol		20	21.3	ug/L	107	(70-130)		
MBLK	1-Butanol			<0.67	ug/L				
MRL_CHK	1-Butanol		2	1.90	ug/L	95	(50-150)		
MS1_202001070500	1-Butanol	ND	20	16.2	ug/L	81	(70-130)		
MSD1_202001070500	1-Butanol	ND	20	17.6	ug/L	88	(70-130)	30	8.8
CCCH	1-Butanol-d10 (S)			106	%	106	(70-130)		
CCCL	1-Butanol-d10 (S)			104	%	104	(70-130)		
CCCM	1-Butanol-d10 (S)			105	%	105	(70-130)		
MBLK	1-Butanol-d10 (S)			95.4	%	95	(70-130)		
MRL_CHK	1-Butanol-d10 (S)			88.6	%	89	(70-130)		
MS1_202001070500	1-Butanol-d10 (S)			86.5	%	87	(70-130)		
MSD1_202001070500	1-Butanol-d10 (S)			94.3	%	94	(70-130)		
CCCH	2-Methoxyethanol		8	8.75	ug/L	109	(70-130)		
CCCL	2-Methoxyethanol		0.4	0.427	ug/L	107	(50-150)		
CCCM	2-Methoxyethanol		4	4.42	ug/L	110	(70-130)		
MBLK	2-Methoxyethanol			<0.13	ug/L				
MRL_CHK	2-Methoxyethanol		0.4	0.343	ug/L	86	(50-150)		
MS1_202001070500	2-Methoxyethanol	ND	4	3.58	ug/L	90	(70-130)		
MSD1_202001070500	2-Methoxyethanol	ND	4	3.63	ug/L	91	(70-130)	30	1.3
CCCH	2-Propen-1-ol		10	10.5	ug/L	105	(70-130)		
CCCL	2-Propen-1-ol		0.5	0.532	ug/L	106	(50-150)		
CCCM	2-Propen-1-ol		5	5.27	ug/L	105	(70-130)		
MBLK	2-Propen-1-ol			<0.17	ug/L				
MRL_CHK	2-Propen-1-ol		0.5	0.331	ug/L	66	(50-150)		
MS1_202001070500	2-Propen-1-ol	ND	5	4.12	ug/L	82	(70-130)		
MSD1_202001070500	2-Propen-1-ol	ND	5	4.27	ug/L	85	(70-130)	30	3.7
CCCH	Chlorobenzene-d5 (I)			96.9	%	97	(70-130)		
CCCL	Chlorobenzene-d5 (I)			86.9	%	87	(70-130)		
CCCM	Chlorobenzene-d5 (I)			98.6	%	99	(70-130)		
MBLK	Chlorobenzene-d5 (I)			107	%	107	(70-130)		
MRL_CHK	Chlorobenzene-d5 (I)			105	%	105	(70-130)		
MS1_202001070500	Chlorobenzene-d5 (I)			102	%	102	(70-130)		
MSD1_202001070500	Chlorobenzene-d5 (I)			125	%	125	(70-130)		

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Report: 847883  
 Project: UCMR4  
 Group: AM1-EP-OR4100660-West Slope  
 Water District

West Slope Water District

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
<b>UCMR4 525.3 by EPA 525.3</b>									
<b>Analytical Batch: 1221275</b>					<b>Analysis Date: 01/14/2020</b>				
CCCH	1,3-Dimethyl-2-nitrobenzene (S)			97.0	%	97	(70-130)		
CCCL	1,3-Dimethyl-2-nitrobenzene (S)			95.1	%	95	(70-130)		
CCCM	1,3-Dimethyl-2-nitrobenzene (S)			98.4	%	98	(70-130)		
CCCM	1,3-Dimethyl-2-nitrobenzene (S)			97.1	%	97	(70-130)		
MBLK	1,3-Dimethyl-2-nitrobenzene (S)			83.9	%	84	(70-130)		
MRL_CHK	1,3-Dimethyl-2-nitrobenzene (S)			75.9	%	76	(70-130)		
MS_202001070201	1,3-Dimethyl-2-nitrobenzene (S)			82.3	%	82	(70-130)		
MSD_202001070201	1,3-Dimethyl-2-nitrobenzene (S)			75.8	%	76	(70-130)		
CCCH	acenaphthene-d10 (I)			100	%	100	(70-130)		
CCCL	acenaphthene-d10 (I)			102	%	102	(70-130)		
CCCM	acenaphthene-d10 (I)			89.8	%	90	(70-130)		
CCCM	acenaphthene-d10 (I)			107	%	107	(70-130)		
MBLK	acenaphthene-d10 (I)			101	%	101	(70-130)		
MRL_CHK	acenaphthene-d10 (I)			102	%	102	(70-130)		
MS_202001070201	acenaphthene-d10 (I)			102	%	102	(70-130)		
MSD_202001070201	acenaphthene-d10 (I)			102	%	102	(70-130)		
CCCH	alpha-HCH		0.4	0.404	ug/L	101	(70-130)		
CCCL	alpha-HCH		0.01	0.0123	ug/L	123	(50-150)		
CCCM	alpha-HCH		0.1	0.102	ug/L	102	(70-130)		
CCCM	alpha-HCH		0.1	0.103	ug/L	103	(70-130)		
MBLK	alpha-HCH			<0.0033	ug/L				
MRL_CHK	alpha-HCH		0.01	0.0113	ug/L	113	(50-150)		
MS_202001070201	alpha-HCH	ND	0.01	0.0118	ug/L	118	(50-150)		
MSD_202001070201	alpha-HCH	ND	0.01	0.0115	ug/L	115	(50-150)	30	2.4
CCCH	Benzo[a]pyrene-d12 (S)			96.1	%	96	(70-130)		
CCCL	Benzo[a]pyrene-d12 (S)			109	%	109	(70-130)		
CCCM	Benzo[a]pyrene-d12 (S)			96.7	%	97	(70-130)		
CCCM	Benzo[a]pyrene-d12 (S)			94.2	%	94	(70-130)		
MBLK	Benzo[a]pyrene-d12 (S)			86.3	%	86	(70-130)		
MRL_CHK	Benzo[a]pyrene-d12 (S)			82.6	%	83	(70-130)		
MS_202001070201	Benzo[a]pyrene-d12 (S)			88.7	%	89	(70-130)		
MSD_202001070201	Benzo[a]pyrene-d12 (S)			77.0	%	77	(70-130)		
CCCH	Chlorpyrifos		0.4	0.414	ug/L	103	(70-130)		
CCCL	Chlorpyrifos		0.03	0.0356	ug/L	119	(50-150)		
CCCM	Chlorpyrifos		0.1	0.107	ug/L	107	(70-130)		

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Report: 847883  
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 Water District

West Slope Water District

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
CCCM	Chlorpyrifos		0.1	0.108	ug/L	108	(70-130)		
MBLK	Chlorpyrifos			<0.01	ug/L				
MRL_CHK	Chlorpyrifos		0.03	0.0301	ug/L	100	(50-150)		
MS_202001070201	Chlorpyrifos	ND	0.03	0.0319	ug/L	106	(50-150)		
MSD_202001070201	Chlorpyrifos	ND	0.03	0.0331	ug/L	110	(50-150)	30	3.7
CCCH	chrysene-d12 (I)			103	%	103	(70-130)		
CCCL	chrysene-d12 (I)			103	%	103	(70-130)		
CCCM	chrysene-d12 (I)			86.9	%	87	(70-130)		
CCCM	chrysene-d12 (I)			99.4	%	99	(70-130)		
MBLK	chrysene-d12 (I)			92.2	%	92	(70-130)		
MRL_CHK	chrysene-d12 (I)			98.4	%	98	(70-130)		
MS_202001070201	chrysene-d12 (I)			100	%	100	(70-130)		
MSD_202001070201	chrysene-d12 (I)			90.2	%	90	(70-130)		
CCCH	Dimethipin		4	3.74	ug/L	94	(70-130)		
CCCL	Dimethipin		0.2	0.208	ug/L	104	(50-150)		
CCCM	Dimethipin		1	0.952	ug/L	95	(70-130)		
CCCM	Dimethipin		1	0.957	ug/L	96	(70-130)		
MBLK	Dimethipin			<0.067	ug/L				
MRL_CHK	Dimethipin		0.2	0.198	ug/L	99	(50-150)		
MS_202001070201	Dimethipin	ND	0.2	0.195	ug/L	98	(50-150)		
MSD_202001070201	Dimethipin	ND	0.2	0.192	ug/L	96	(50-150)	30	1.8
CCCH	Ethoprop		0.4	0.427	ug/L	107	(70-130)		
CCCL	Ethoprop		0.03	0.0322	ug/L	107	(50-150)		
CCCM	Ethoprop		0.1	0.106	ug/L	106	(70-130)		
CCCM	Ethoprop		0.1	0.110	ug/L	110	(70-130)		
MBLK	Ethoprop			<0.010	ug/L				
MRL_CHK	Ethoprop		0.03	0.0305	ug/L	102	(50-150)		
MS_202001070201	Ethoprop	ND	0.03	0.0336	ug/L	112	(50-150)		
MSD_202001070201	Ethoprop	ND	0.03	0.0326	ug/L	109	(50-150)	30	3.0
CCCH	Oxyfluorfen		0.4	0.483	ug/L	121	(70-130)		
CCCL	Oxyfluorfen		0.05	0.0531	ug/L	106	(50-150)		
CCCM	Oxyfluorfen		0.1	0.109	ug/L	109	(70-130)		
CCCM	Oxyfluorfen		0.1	0.117	ug/L	117	(70-130)		
MBLK	Oxyfluorfen			<0.017	ug/L				
MRL_CHK	Oxyfluorfen		0.05	0.0529	ug/L	106	(50-150)		
MS_202001070201	Oxyfluorfen	ND	0.05	0.0588	ug/L	118	(50-150)		
MSD_202001070201	Oxyfluorfen	ND	0.05	0.0555	ug/L	111	(50-150)	30	5.8
CCCH	phenanthrene-d10 (I)			100	%	100	(70-130)		

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West Slope Water District

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
CCCL	phenanthrene-d10 (I)			102	%	102	(70-130)		
CCCM	phenanthrene-d10 (I)			88.5	%	88	(70-130)		
CCCM	phenanthrene-d10 (I)			109	%	109	(70-130)		
MBLK	phenanthrene-d10 (I)			101	%	101	(70-130)		
MRL_CHK	phenanthrene-d10 (I)			103	%	103	(70-130)		
MS_202001070201	phenanthrene-d10 (I)			103	%	103	(70-130)		
MSD_202001070201	phenanthrene-d10 (I)			102	%	102	(70-130)		
CCCH	Profenofos		4	3.97	ug/L	99	(70-130)		
CCCL	Profenofos		0.3	0.286	ug/L	95	(50-150)		
CCCM	Profenofos		1	0.946	ug/L	95	(70-130)		
CCCM	Profenofos		1	1.01	ug/L	101	(70-130)		
MBLK	Profenofos			<0.10	ug/L				
MRL_CHK	Profenofos		0.3	0.272	ug/L	91	(50-150)		
MS_202001070201	Profenofos	ND	0.3	0.312	ug/L	104	(50-150)		
MSD_202001070201	Profenofos	ND	0.3	0.302	ug/L	101	(50-150)	30	3.4
CCCH	Tebuconazole		4	4.09	ug/L	102	(70-130)		
CCCL	Tebuconazole		0.2	0.202	ug/L	101	(50-150)		
CCCM	Tebuconazole		1	1.03	ug/L	103	(70-130)		
CCCM	Tebuconazole		1	1.11	ug/L	111	(70-130)		
MBLK	Tebuconazole			<0.067	ug/L				
MRL_CHK	Tebuconazole		0.2	0.188	ug/L	94	(50-150)		
MS_202001070201	Tebuconazole	ND	0.2	0.228	ug/L	114	(50-150)		
MSD_202001070201	Tebuconazole	ND	0.2	0.237	ug/L	118	(50-150)	30	3.9
CCCH	Total Permethrin (trans & cis)		0.8	0.827	ug/L	103	(70-130)		
CCCL	Total Permethrin (trans & cis)		0.04	0.0431	ug/L	108	(50-150)		
CCCM	Total Permethrin (trans & cis)		0.2	0.207	ug/L	103	(70-130)		
CCCM	Total Permethrin (trans & cis)		0.2	0.219	ug/L	109	(70-130)		
MBLK	Total Permethrin (trans & cis)			<0.013	ug/L				
MRL_CHK	Total Permethrin (trans & cis)		0.04	0.0373	ug/L	93	(50-150)		
MS_202001070201	Total Permethrin (trans & cis)	ND	0.04	0.0461	ug/L	115	(50-150)		
MSD_202001070201	Total Permethrin (trans & cis)	ND	0.04	0.0462	ug/L	116	(50-150)	30	0.33
CCCH	Tribufos		0.4	0.452	ug/L	113	(70-130)		
CCCL	Tribufos		0.07	0.0690	ug/L	99	(50-150)		
CCCM	Tribufos		0.1	0.112	ug/L	112	(70-130)		
CCCM	Tribufos		0.1	0.114	ug/L	114	(70-130)		
MBLK	Tribufos			<0.023	ug/L				
MRL_CHK	Tribufos		0.07	0.0654	ug/L	94	(50-150)		
MS_202001070201	Tribufos	ND	0.07	0.0740	ug/L	106	(50-150)		

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West Slope Water District

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_202001070201	Tribufos	ND	0.07	0.0722	ug/L	103	(50-150)	30	2.4
CCCH	Triphenyl Phosphate (S)			96.5	%	97	(70-130)		
CCCL	Triphenyl Phosphate (S)			89.9	%	90	(70-130)		
CCCM	Triphenyl Phosphate (S)			98.8	%	99	(70-130)		
CCCM	Triphenyl Phosphate (S)			100	%	100	(70-130)		
MBLK	Triphenyl Phosphate (S)			89.7	%	90	(70-130)		
MRL_CHK	Triphenyl Phosphate (S)			83.4	%	83	(70-130)		
MS_202001070201	Triphenyl Phosphate (S)			89.0	%	89	(70-130)		
MSD_202001070201	Triphenyl Phosphate (S)			91.6	%	92	(70-130)		

UCMR4 530 by EPA 530

Analytical Batch: 1221374

Analysis Date: 01/21/2020

CCCH	acenaphthene-d10 (I)			91.3	%	91	(70-130)		
CCCL	acenaphthene-d10 (I)			105	%	105	(70-130)		
CCCM	acenaphthene-d10 (I)			111	%	111	(70-130)		
MBLK	acenaphthene-d10 (I)			88.1	%	88	(70-130)		
MRL_CHK	acenaphthene-d10 (I)			91.0	%	91	(70-130)		
CCCH	Butylated hydroxyanisole		0.2	0.193	ug/L	97	(70-130)		
CCCL	Butylated hydroxyanisole		0.03	0.0337	ug/L	112	(50-150)		
CCCM	Butylated hydroxyanisole		0.1	0.109	ug/L	109	(70-130)		
MBLK	Butylated hydroxyanisole			<0.01	ug/L				
MRL_CHK	Butylated hydroxyanisole		0.03	0.0298	ug/L	99	(50-150)		
CCCH	O-Toluidine		0.2	0.192	ug/L	96	(70-130)		
CCCL	O-Toluidine		0.007	0.00689	ug/L	99	(50-150)		
CCCM	O-Toluidine		0.1	0.0978	ug/L	98	(70-130)		
MBLK	O-Toluidine			<0.0023	ug/L				
MRL_CHK	O-Toluidine		0.007	0.00577	ug/L	82	(50-150)		
CCCH	o-Toluidine-d9 (S)			93.1	%	93	(50-130)		
CCCL	o-Toluidine-d9 (S)			85.8	%	86	(50-130)		
CCCM	o-Toluidine-d9 (S)			95.3	%	95	(50-130)		
MBLK	o-Toluidine-d9 (S)			74.5	%	74	(50-130)		
MRL_CHK	o-Toluidine-d9 (S)			69.0	%	69	(50-130)		
CCCH	phenanthrene-d10 (I)			94.6	%	95	(70-130)		
CCCL	phenanthrene-d10 (I)			100	%	100	(70-130)		
CCCM	phenanthrene-d10 (I)			111	%	111	(70-130)		
MBLK	phenanthrene-d10 (I)			90.8	%	91	(70-130)		
MRL_CHK	phenanthrene-d10 (I)			93.3	%	93	(70-130)		
CCCH	Quinoline		0.2	0.182	ug/L	91	(70-130)		
CCCL	Quinoline		0.02	0.0202	ug/L	101	(50-150)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
CCCM	Quinoline		0.1	0.0998	ug/L	100	(70-130)		
MBLK	Quinoline			<0.0067	ug/L				
MRL_CHK	Quinoline		0.02	0.0175	ug/L	87	(50-150)		
CCCH	Quinoline-d7 (S)			92.8	%	93	(70-130)		
CCCL	Quinoline-d7 (S)			102	%	102	(70-130)		
CCCM	Quinoline-d7 (S)			98.1	%	98	(70-130)		
MBLK	Quinoline-d7 (S)			94.0	%	94	(70-130)		
MRL_CHK	Quinoline-d7 (S)			88.0	%	88	(70-130)		

UCMR4 Metals by UCMR4 200.8

Prep Batch: 1223141 Analytical Batch: 1224899

Analysis Date: 02/04/2020

MBLK	Germanium Total ICAP/MS			<0.3	ug/L				
MRL_CHK	Germanium Total ICAP/MS		0.3	3.10	ug/L	<b>1030</b>	(50-150)		
MS_202001070201	Germanium Total ICAP/MS	NR	30	311	ug/L	<b>1040</b>	(70-130)		
MSD_202001070201	Germanium Total ICAP/MS	NR	30	312	ug/L	<b>1040</b>	(70-130)	20	0.28
MBLK	Indium (115) (I)			111	%	111	(60-125)		
MRL_CHK	Indium (115) (I)		100	98.8	%	99	(60-125)		
MS_202001070201	Indium (115) (I)		100	101	%	101	(60-125)		
MSD_202001070201	Indium (115) (I)		100	101	%	101	(60-125)		
MBLK	Manganese Total ICAP/MS			<0.4	ug/L				
MRL_CHK	Manganese Total ICAP/MS		0.4	4.10	ug/L	<b>1030</b>	(50-150)		
MS_202001070201	Manganese Total ICAP/MS	NR	40	406	ug/L	<b>1010</b>	(70-130)		
MSD_202001070201	Manganese Total ICAP/MS	NR	40	402	ug/L	<b>1000</b>	(70-130)	20	0.90
MBLK	Yttrium (89) (I)			111	%	111	(60-125)		
MRL_CHK	Yttrium (89) (I)		100	98.8	%	99	(60-125)		
MS_202001070201	Yttrium (89) (I)		100	101	%	101	(60-125)		
MSD_202001070201	Yttrium (89) (I)		100	102	%	102	(60-125)		

UCMR4 Metals by UCMR4 200.8

Analytical Batch: 1229227

Analysis Date: 02/20/2020

CCCH	Germanium Total ICAP/MS		60	61.2	ug/L	102	(85-115)		
CCCL	Germanium Total ICAP/MS		0.3	0.291	ug/L	97	(50-150)		
CCCM	Germanium Total ICAP/MS		30	29.3	ug/L	98	(85-115)		
LCS1	Germanium Total ICAP/MS		30	29.1	ug/L	97	(90-110)		
MBLK	Germanium Total ICAP/MS			<0.3	ug/L				
MRL_CHK	Germanium Total ICAP/MS		0.3	0.287	ug/L	96	(50-150)		
MS_202001130157	Germanium Total ICAP/MS	0.40	30	31.2	ug/L	103	(70-130)		
MSD_202001130157	Germanium Total ICAP/MS	0.40	30	31.1	ug/L	102	(70-130)	20	0.17
CCCH	Indium (115) (I)		100	94.6	%	95	(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.

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**Report:** 847883  
**Project:** UCMR4  
**Group:** AM1-EP-OR4100660-West Slope Water District

West Slope Water District

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
CCCL	Indium (115) (I)		100	99.9	%	100	(60-125)		
CCCM	Indium (115) (I)		100	102	%	102	(60-125)		
LCS1	Indium (115) (I)		100	99.3	%	99	(60-125)		
MBLK	Indium (115) (I)			99.7	%	100	(60-125)		
MRL_CHK	Indium (115) (I)		100	98.5	%	99	(60-125)		
MS_202001130157	Indium (115) (I)		100	94.2	%	94	(60-125)		
MSD_202001130157	Indium (115) (I)		100	95.5	%	96	(60-125)		
CCCH	Manganese Total ICAP/MS		80	78.7	ug/L	98	(85-115)		
CCCL	Manganese Total ICAP/MS		0.4	0.390	ug/L	98	(50-150)		
CCCM	Manganese Total ICAP/MS		40	39.7	ug/L	99	(85-115)		
LCS1	Manganese Total ICAP/MS		40	38.8	ug/L	97	(90-110)		
MBLK	Manganese Total ICAP/MS			<0.4	ug/L				
MRL_CHK	Manganese Total ICAP/MS		0.4	0.398	ug/L	100	(50-150)		
MS_202001130157	Manganese Total ICAP/MS	ND	40	38.2	ug/L	95	(70-130)		
MSD_202001130157	Manganese Total ICAP/MS	ND	40	38.7	ug/L	96	(70-130)	20	1.1
CCCH	Yttrium (89) (I)		100	96.7	%	97	(60-125)		
CCCL	Yttrium (89) (I)		100	100	%	100	(60-125)		
CCCM	Yttrium (89) (I)		100	102	%	102	(60-125)		
LCS1	Yttrium (89) (I)		100	98.7	%	99	(60-125)		
MBLK	Yttrium (89) (I)			100	%	100	(60-125)		
MRL_CHK	Yttrium (89) (I)		100	98.7	%	99	(60-125)		
MS_202001130157	Yttrium (89) (I)		100	98.3	%	98	(60-125)		
MSD_202001130157	Yttrium (89) (I)		100	98.4	%	98	(60-125)		

Spike recovery is already corrected for native results.

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