



NEILSON RESEARCH CORPORATION

Environmental Testing Laboratory

2/14/2019

Andy Chasteen
Medford School District
815 S Oakdale Ave
Medford, OR 97501

TEL: 541-842-3646

FAX 541-842-1160

RE: Ruch Elementary SOCR & IOC

Order No.: 1901A27

Dear Andy Chasteen:

Neilson Research Corporation received 1 sample(s) on 1/30/2019 for the analyses presented in the following report.

The results relate only to the parameters tested or to the sample as received by the laboratory. This report shall not be reproduced except in full, without the written approval of Neilson Research Corporation. If you have any questions regarding these test results, please feel free to call.

Sincerely,
Neilson Research Corporation

Tamra R. Schmedemann
Project Manager

Neilson Research Corporation

245 South Grape Street, Medford, Oregon 97501 541-770-5678 Fax 541-770-2901

Analysis Report

ORELAP 100016
EPA OR00028

CLIENT: Medford School District
Project: Ruch Elementary SOCR & IOC
Lab Order: 1901A27

Date: 14-Feb-19

CASE NARRATIVE

The analyses were performed according to the guidelines in the Neilson Research Corporation Quality Assurance Program. This report contains analytical results for the sample(s) as received by the laboratory.

Neilson Research Corporation certifies that this report is in compliance with the requirements of NELAP. No unusual difficulties were experienced during analysis of this batch except as noted below or qualified with data flags on the reports.

Neilson Research Corporation

245 South Grape Street, Medford, Oregon 97501 541-770-5678 Fax 541-770-2901

Analysis Report

ORELAP 100016
EPA OR00028

Medford School District
815 S Oakdale Ave
Medford, OR 97501

Lab Order: **1901A27**
NRC Sample ID: **1901A27-01A**
Collection Date: **1/30/2019 2:25:00 PM**
Received Date: **1/30/2019 4:40:00 PM**
Reported Date: **2/14/2019 11:29:06 AM**

Ruch Elementary SOCR & IOC

PWS ID#: 41-91508
Source ID: EP-A
Matrix: Drinking Water

Client Sample ID: Ruch Elementary
Sample Location: Wellhead
Collectors Name: Perry Yorks/NRC

ANALYTICAL RESULTS

Analyses	Code	Method	NELAP Accredited	Result	Qual	MRL	Units	EPA Limit	Date Analyzed	Analyst
Cyanide	1024	EPA 335.4		ND		0.003	mg/L	0.2	2/13/2019	SJK
Fluoride	1025	EPA 300.0	A	ND		0.2	mg/L	4	1/30/2019 9:28:58 PM	SCM
Nitrate Nitrogen	1040	EPA 300.0	A	2.94		0.2	mg/L	10	1/30/2019 9:28:58 PM	SCM
Nitrite Nitrogen	1041	EPA 300.0	A	ND		0.05	mg/L	1	1/30/2019 9:28:58 PM	SCM
Nitrogen, Nitrate-Nitrite	1038	EPA 300.0	A	2.94		0.2	mg/L	10	1/30/2019 9:28:58 PM	SCM
Mercury	1035	EPA 245.1	A	ND		0.0002	mg/L	0.002	2/6/2019	JWC
Beryllium	1075	EPA 200.7	A	ND		0.0002	mg/L	0.004	1/31/2019	KMR
Sodium	1052	EPA 200.7	A	133		10	mg/L	N.L.	2/5/2019	JWC
Antimony	1074	EPA 200.8	A	ND		0.0005	mg/L	0.006	1/31/2019	JWC
Arsenic	1005	EPA 200.8	A	0.00192		0.001	mg/L	0.01	1/31/2019	JWC
Barium	1010	EPA 200.8	A	ND		0.0005	mg/L	2	1/31/2019	JWC
Cadmium	1015	EPA 200.8	A	ND		0.0001	mg/L	0.005	1/31/2019	JWC
Chromium	1020	EPA 200.8	A	ND		0.001	mg/L	0.1	1/31/2019	JWC
Nickel	1036	EPA 200.8	A	0.000565		0.0005	mg/L	N.L.	1/31/2019	JWC
Selenium	1045	EPA 200.8	A	0.000512		0.0005	mg/L	0.05	1/31/2019	JWC
Thallium	1085	EPA 200.8	A	ND		0.0005	mg/L	0.002	1/31/2019	JWC

Notes: ND - Not Detected at the MRL
MDL = Method Detection Limit

N.L. = No Limit

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Analysis Report

ORELAP 100016
EPA OR00028

Medford School District
815 S Oakdale Ave
Medford, OR 97501

Lab Order: **1901A27**
NRC Sample ID: **1901A27-01B**
Collection Date: **1/30/2019 2:25:00 PM**
Received Date: **1/30/2019 4:40:00 PM**
Reported Date: **2/14/2019 11:29:07 AM**

Ruch Elementary SOCR & IOC

PWS ID#: 41-91508
Source ID: EP-A
Matrix: Drinking Water

Client Sample ID: Ruch Elementary
Sample Location: Wellhead
Collectors Name: Perry Yorks/NRC

ANALYTICAL RESULTS

Analyses	Code	Method	NELAP Accredited	Result	Qual	MRL	Units	EPA Limit	Date Analyzed	Analyst
2,4-D	2105	EPA 515.3	A	ND		0.001	mg/L	0.07	2/5/2019	GKG
Surr: DCAA		EPA 515.3		109		0	%REC		2/5/2019	GKG
Benzo(a)pyrene	2306	EPA 525.2	A	ND		0.00004	mg/L	0.0002	2/8/2019	JEL
bis(2-Ethylhexyl)adipate	2035	EPA 525.2	A	ND		0.004	mg/L	0.4	2/8/2019	JEL
bis(2-ethylhexyl)phthalate	2039	EPA 525.2	A	ND		0.002	mg/L	0.006	2/8/2019	JEL
Surr: 1,3-Dimethyl-2-nitrobenzene		EPA 525.2		95.4		0	%REC		2/8/2019	JEL
Surr: Perylene-D12		EPA 525.2		92.8		0	%REC		2/8/2019	JEL
Surr: Pyrene-d10		EPA 525.2		94.8		0	%REC		2/8/2019	JEL
Surr: Triphenylphosphate		EPA 525.2		111		0	%REC		2/8/2019	JEL
Glyphosate	2034	EPA 547	A	ND		0.05	mg/L	0.7	2/6/2019	SJK

Notes: ND - Not Detected at the MRL
MDL = Method Detection Limit

N.L. = No Limit

CLIENT: Medford School District
Work Order: 1901A27
Project: Ruch Elementary SOCR & IOC

ANALYTICAL QC SUMMARY REPORT

TestCode: CYANIDE_DW_AUTO

Sample ID MB-43680	SampType: MBLK	TestCode: CYANIDE_D	Units: mg/L	Prep Date: 2/11/2019	RunNo: 110073						
Client ID: ZZZZZ	Batch ID: 43680	TestNo: EPA 335.4	(EPA 335.3)	Analysis Date: 2/13/2019	SeqNo: 1683227						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cyanide ND 0.00300

Sample ID LCS-43680	SampType: LCS	TestCode: CYANIDE_D	Units: mg/L	Prep Date: 2/11/2019	RunNo: 110073						
Client ID: ZZZZZ	Batch ID: 43680	TestNo: EPA 335.4	(EPA 335.3)	Analysis Date: 2/13/2019	SeqNo: 1683231						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cyanide 0.03680 0.00300 0.04 0 92.0 90 110

Sample ID 1901A27-01AMS	SampType: MS	TestCode: CYANIDE_D	Units: mg/L	Prep Date: 2/11/2019	RunNo: 110073						
Client ID: Ruch Elementary	Batch ID: 43680	TestNo: EPA 335.4	(EPA 335.3)	Analysis Date: 2/13/2019	SeqNo: 1683229						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cyanide 0.03620 0.00300 0.04 0 90.5 80 120

Sample ID 1901A27-01AMSD	SampType: MSD	TestCode: CYANIDE_D	Units: mg/L	Prep Date: 2/11/2019	RunNo: 110073						
Client ID: Ruch Elementary	Batch ID: 43680	TestNo: EPA 335.4	(EPA 335.3)	Analysis Date: 2/13/2019	SeqNo: 1683230						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cyanide 0.03430 0.00300 0.04 0 85.8 80 120 0.0362 5.39 20

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Minimum Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

CLIENT: Medford School District
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ANALYTICAL QC SUMMARY REPORT

TestCode: EPA300_PWS

Sample ID MBLK	SampType: MBLK	TestCode: EPA300_PW	Units: mg/L	Prep Date:	RunNo: 109787						
Client ID: ZZZZZ	Batch ID: R109787	TestNo: EPA 300.0		Analysis Date: 1/30/2019	SeqNo: 1678411						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Fluoride	ND	0.200									
Nitrate Nitrogen	ND	0.200									
Nitrite Nitrogen	ND	0.0500									
Nitrogen, Nitrate-Nitrite	ND	0.200									

Sample ID LCS	SampType: LCS	TestCode: EPA300_PW	Units: mg/L	Prep Date:	RunNo: 109787						
Client ID: ZZZZZ	Batch ID: R109787	TestNo: EPA 300.0		Analysis Date: 1/30/2019	SeqNo: 1678410						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Fluoride	0.9699	0.200	1	0	97.0	90	110				
Nitrate Nitrogen	0.9946	0.200	1	0	99.5	90	110				
Nitrite Nitrogen	0.4733	0.0500	0.5	0	94.7	90	110				
Nitrogen, Nitrate-Nitrite	1.468	0.200	1.5	0	97.9	90	110				

Sample ID 1901A24-01BMS	SampType: MS	TestCode: EPA300_PW	Units: mg/L	Prep Date:	RunNo: 109787						
Client ID: ZZZZZ	Batch ID: R109787	TestNo: EPA 300.0		Analysis Date: 1/30/2019	SeqNo: 1678414						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Fluoride	1.118	0.200	1	0.1289	98.9	80	120				
Nitrate Nitrogen	0.9790	0.200	1	0	97.9	80	120				
Nitrite Nitrogen	0.4871	0.0500	0.5	0	97.4	80	120				
Nitrogen, Nitrate-Nitrite	1.466	0.200	1.5	0	97.7	80	120				

Sample ID 1901A24-01BMSD	SampType: MSD	TestCode: EPA300_PW	Units: mg/L	Prep Date:	RunNo: 109787						
Client ID: ZZZZZ	Batch ID: R109787	TestNo: EPA 300.0		Analysis Date: 1/30/2019	SeqNo: 1678415						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Fluoride	1.133	0.200	1	0.1289	100	80	120	1.118	1.27	15	
Nitrate Nitrogen	0.9852	0.200	1	0	98.5	80	120	0.979	0.639	15	

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Minimum Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

CLIENT: Medford School District
Work Order: 1901A27
Project: Ruch Elementary SOCR & IOC

ANALYTICAL QC SUMMARY REPORT

TestCode: EPA300_PWS

Sample ID 1901A24-01BMSD	SampType: MSD	TestCode: EPA300_PW	Units: mg/L	Prep Date:	RunNo: 109787						
Client ID: ZZZZZ	Batch ID: R109787	TestNo: EPA 300.0	Analysis Date: 1/30/2019	SeqNo: 1678415							
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrite Nitrogen	0.4899	0.0500	0.5	0	98.0	80	120	0.4871	0.576	15	
Nitrogen, Nitrate-Nitrite	1.475	0.200	1.5	0	98.3	80	120	0	0	15	

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
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CLIENT: Medford School District
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ANALYTICAL QC SUMMARY REPORT

TestCode: EPA515.3_DW

Sample ID MB-43633	SampType: MBLK	TestCode: EPA515.3_D	Units: mg/L	Prep Date: 2/5/2019	RunNo: 109925						
Client ID: ZZZZZ	Batch ID: 43633	TestNo: EPA 515.3	(EPA 515.3)	Analysis Date: 2/5/2019	SeqNo: 1680251						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

2,4-D	ND	0.00100									
Surr: DCAA	0.02545	0	0.025	0	102	70	130				

Sample ID LCS-43633	SampType: LCS	TestCode: EPA515.3_D	Units: mg/L	Prep Date: 2/5/2019	RunNo: 109925						
Client ID: ZZZZZ	Batch ID: 43633	TestNo: EPA 515.3	(EPA 515.3)	Analysis Date: 2/5/2019	SeqNo: 1680252						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

2,4-D	0.01002	0.00100	0.01	0	100	70	130				
Surr: DCAA	0.02500	0	0.025	0	100	70	130				

Sample ID 1901A27-01BMS	SampType: MS	TestCode: EPA515.3_D	Units: mg/L	Prep Date: 2/5/2019	RunNo: 109925						
Client ID: Ruch Elementary	Batch ID: 43633	TestNo: EPA 515.3	(EPA 515.3)	Analysis Date: 2/5/2019	SeqNo: 1680254						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

2,4-D	0.009418	0.00100	0.01	0	94.2	70	130				
Surr: DCAA	0.02458	0	0.025	0	98.3	70	130				

Sample ID 1901A27-01BMSD	SampType: MSD	TestCode: EPA515.3_D	Units: mg/L	Prep Date: 2/5/2019	RunNo: 109925						
Client ID: Ruch Elementary	Batch ID: 43633	TestNo: EPA 515.3	(EPA 515.3)	Analysis Date: 2/5/2019	SeqNo: 1680255						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

2,4-D	0.009540	0.00100	0.01	0	95.4	70	130	0.009418	1.29	20	
Surr: DCAA	0.02532	0	0.025	0	101	70	130	0	0	0	

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ANALYTICAL QC SUMMARY REPORT

TestCode: EPA525.2_DW

Sample ID MB-43621	SampType: MBLK	TestCode: EPA525.2_D	Units: mg/L	Prep Date: 2/4/2019	RunNo: 110008						
Client ID: ZZZZZ	Batch ID: 43621	TestNo: EPA 525.2	(EPA 525.2)	Analysis Date: 2/8/2019	SeqNo: 1681851						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzo(a)pyrene	ND	0.0000400									
bis(2-Ethylhexyl)adipate	ND	0.00400									
bis(2-ethylhexyl)phthalate	ND	0.00200									
Surr: 1,3-Dimethyl-2-nitrobenzene	0.004760	0	0.005	0	95.2	70	130				
Surr: Perylene-D12	0.004830	0	0.005	0	96.6	70	130				
Surr: Pyrene-d10	0.005080	0	0.005	0	102	70	130				
Surr: Triphenylphosphate	0.005540	0	0.005	0	111	70	130				

Sample ID LCS-43621	SampType: LCS	TestCode: EPA525.2_D	Units: mg/L	Prep Date: 2/4/2019	RunNo: 110008						
Client ID: ZZZZZ	Batch ID: 43621	TestNo: EPA 525.2	(EPA 525.2)	Analysis Date: 2/8/2019	SeqNo: 1681849						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzo(a)pyrene	0.004860	0.0000400	0.005	0	97.2	70	130				
bis(2-Ethylhexyl)adipate	0.005390	0.00400	0.005	0	108	70	130				
bis(2-ethylhexyl)phthalate	0.005500	0.00200	0.005	0.00008	108	70	130				
Surr: 1,3-Dimethyl-2-nitrobenzene	0.004960	0	0.005	0	99.2	70	130				
Surr: Perylene-D12	0.005230	0	0.005	0	105	70	130				
Surr: Pyrene-d10	0.004950	0	0.005	0	99.0	70	130				
Surr: Triphenylphosphate	0.005790	0	0.005	0	116	70	130				

Sample ID LCSD-43621	SampType: LCSD	TestCode: EPA525.2_D	Units: mg/L	Prep Date: 2/4/2019	RunNo: 110008						
Client ID: ZZZZZ	Batch ID: 43621	TestNo: EPA 525.2	(EPA 525.2)	Analysis Date: 2/8/2019	SeqNo: 1681850						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzo(a)pyrene	0.004770	0.0000400	0.005	0	95.4	70	130	0.00486	1.87	20	
bis(2-Ethylhexyl)adipate	0.005380	0.00400	0.005	0	108	70	130	0.00539	0.186	20	
bis(2-ethylhexyl)phthalate	0.005450	0.00200	0.005	0.00008	107	70	130	0.0055	0.913	20	
Surr: 1,3-Dimethyl-2-nitrobenzene	0.005010	0	0.005	0	100	70	130	0	0	20	
Surr: Perylene-D12	0.005120	0	0.005	0	102	70	130	0	0	20	

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ANALYTICAL QC SUMMARY REPORT

TestCode: EPA525.2_DW

Sample ID LCSD-43621	SampType: LCSD	TestCode: EPA525.2_D	Units: mg/L	Prep Date: 2/4/2019	RunNo: 110008						
Client ID: ZZZZZ	Batch ID: 43621	TestNo: EPA 525.2	(EPA 525.2)	Analysis Date: 2/8/2019	SeqNo: 1681850						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Pyrene-d10	0.004860	0	0.005	0	97.2	70	130	0	0	0	
Surr: Triphenylphosphate	0.005650	0	0.005	0	113	70	130	0	0	0	

Sample ID 1901A43-01AMS	SampType: MS	TestCode: EPA525.2_D	Units: mg/L	Prep Date: 2/4/2019	RunNo: 110008						
Client ID: ZZZZZ	Batch ID: 43621	TestNo: EPA 525.2	(EPA 525.2)	Analysis Date: 2/8/2019	SeqNo: 1681855						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)pyrene	0.004860	0.0000400	0.005	0	97.2	70	130				
bis(2-Ethylhexyl)adipate	0.005280	0.00400	0.005	0	106	70	130				
bis(2-ethylhexyl)phthalate	0.005360	0.00200	0.005	0.00013	105	70	130				
Surr: 1,3-Dimethyl-2-nitrobenzene	0.004790	0	0.005	0	95.8	70	130				
Surr: Perylene-D12	0.004820	0	0.005	0	96.4	70	130				
Surr: Pyrene-d10	0.004820	0	0.005	0	96.4	70	130				
Surr: Triphenylphosphate	0.005520	0	0.005	0	110	70	130				

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ANALYTICAL QC SUMMARY REPORT

TestCode: EPA547_DW

Sample ID MB	SampType: MBLK	TestCode: EPA547_DW	Units: mg/L	Prep Date:	RunNo: 109922						
Client ID: ZZZZZ	Batch ID: R109922	TestNo: EPA 547		Analysis Date: 2/6/2019	SeqNo: 1680196						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Glyphosate ND 0.0500

Sample ID LCS	SampType: LCS	TestCode: EPA547_DW	Units: mg/L	Prep Date:	RunNo: 109922						
Client ID: ZZZZZ	Batch ID: R109922	TestNo: EPA 547		Analysis Date: 2/6/2019	SeqNo: 1680195						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Glyphosate 0.5232 0.0500 0.5 0 105 80 120

Sample ID 1901A27-01BMS	SampType: MS	TestCode: EPA547_DW	Units: mg/L	Prep Date:	RunNo: 109922						
Client ID: Ruch Elementary	Batch ID: R109922	TestNo: EPA 547		Analysis Date: 2/6/2019	SeqNo: 1680198						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Glyphosate 0.4748 0.0500 0.5 0 95.0 70 130

Sample ID 1901A27-01BMSD	SampType: MSD	TestCode: EPA547_DW	Units: mg/L	Prep Date:	RunNo: 109922						
Client ID: Ruch Elementary	Batch ID: R109922	TestNo: EPA 547		Analysis Date: 2/6/2019	SeqNo: 1680199						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Glyphosate 0.4766 0.0500 0.5 0 95.3 70 130 0.4748 0.360 20

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
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CLIENT: Medford School District
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ANALYTICAL QC SUMMARY REPORT

TestCode: HG_DW

Sample ID MB-43628	SampType: MBLK	TestCode: HG_DW	Units: mg/L	Prep Date: 2/5/2019	RunNo: 109946						
Client ID: ZZZZZ	Batch ID: 43628	TestNo: EPA 245.1	(EPA 245.1/7	Analysis Date: 2/6/2019	SeqNo: 1680678						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury ND 0.000200

Sample ID LCS-43628	SampType: LCS	TestCode: HG_DW	Units: mg/L	Prep Date: 2/5/2019	RunNo: 109946						
Client ID: ZZZZZ	Batch ID: 43628	TestNo: EPA 245.1	(EPA 245.1/7	Analysis Date: 2/6/2019	SeqNo: 1680679						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.005957 0.000200 0.005 0.000044 118 80 120

Sample ID 1902006-01BMS	SampType: MS	TestCode: HG_DW	Units: mg/L	Prep Date: 2/5/2019	RunNo: 109946						
Client ID: ZZZZZ	Batch ID: 43628	TestNo: EPA 245.1	(EPA 245.1/7	Analysis Date: 2/6/2019	SeqNo: 1680683						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.005319 0.000200 0.005 0.000038 106 75 125

Sample ID 1902006-01BMSD	SampType: MSD	TestCode: HG_DW	Units: mg/L	Prep Date: 2/5/2019	RunNo: 109946						
Client ID: ZZZZZ	Batch ID: 43628	TestNo: EPA 245.1	(EPA 245.1/7	Analysis Date: 2/6/2019	SeqNo: 1680684						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.005430 0.000200 0.005 0.000038 108 75 125 0.005319 2.07 20

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Minimum Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

CLIENT: Medford School District
Work Order: 1901A27
Project: Ruch Elementary SOCR & IOC

ANALYTICAL QC SUMMARY REPORT

TestCode: ICP_200.7_DW

Sample ID MB-43597	SampType: MBLK	TestCode: ICP_200.7_D	Units: mg/L	Prep Date: 1/31/2019	RunNo: 109821						
Client ID: ZZZZZ	Batch ID: 43597	TestNo: EPA 200.7	(EPA 200.7)	Analysis Date: 1/31/2019	SeqNo: 1678842						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Beryllium	ND	0.000200									
Sodium	ND	1.00									

Sample ID LCS-43597	SampType: LCS	TestCode: ICP_200.7_D	Units: mg/L	Prep Date: 1/31/2019	RunNo: 109821						
Client ID: ZZZZZ	Batch ID: 43597	TestNo: EPA 200.7	(EPA 200.7)	Analysis Date: 1/31/2019	SeqNo: 1678843						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Beryllium	1.004	0.000200	1	0	100	85	115				
Sodium	2.032	1.00	2	0	102	85	115				

Sample ID 1901A29-01AMS	SampType: MS	TestCode: ICP_200.7_D	Units: mg/L	Prep Date: 1/31/2019	RunNo: 109821						
Client ID: ZZZZZ	Batch ID: 43597	TestNo: EPA 200.7	(EPA 200.7)	Analysis Date: 1/31/2019	SeqNo: 1678853						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Beryllium	1.011	0.000200	1	0	101	70	130				
Sodium	30.01	1.00	22	8.07	99.7	70	130				

Sample ID 1901A29-01AMSD	SampType: MSD	TestCode: ICP_200.7_D	Units: mg/L	Prep Date: 1/31/2019	RunNo: 109821						
Client ID: ZZZZZ	Batch ID: 43597	TestNo: EPA 200.7	(EPA 200.7)	Analysis Date: 1/31/2019	SeqNo: 1678854						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Beryllium	1.141	0.000200	1	0	114	70	130	1.011	12.1	20	
Sodium	32.49	1.00	22	8.07	111	70	130	30.01	7.94	20	

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CLIENT: Medford School District
Work Order: 1901A27
Project: Ruch Elementary SOCR & IOC

ANALYTICAL QC SUMMARY REPORT

TestCode: ICPMS_200.8_PWS

Sample ID MB-43599	SampType: MBLK	TestCode: ICPMS_200.8	Units: mg/L	Prep Date: 1/31/2019	RunNo: 109816						
Client ID: ZZZZZ	Batch ID: 43599	TestNo: EPA 200.8	(EPA 200.8)	Analysis Date: 1/31/2019	SeqNo: 1678782						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	ND	0.000500									
Arsenic	ND	0.00100									
Barium	ND	0.000500									
Cadmium	ND	0.000100									
Chromium	ND	0.00100									
Nickel	ND	0.000500									
Selenium	ND	0.000500									
Thallium	ND	0.000500									

Sample ID LCS-43599	SampType: LCS	TestCode: ICPMS_200.8	Units: mg/L	Prep Date: 1/31/2019	RunNo: 109816						
Client ID: ZZZZZ	Batch ID: 43599	TestNo: EPA 200.8	(EPA 200.8)	Analysis Date: 1/31/2019	SeqNo: 1678783						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	0.1058	0.000500	0.1	0.000084	106	85	115				
Arsenic	0.1038	0.00100	0.1	0	104	85	115				
Barium	0.1024	0.000500	0.1	0	102	85	115				
Cadmium	0.1017	0.000100	0.1	0	102	85	115				
Chromium	0.1034	0.00100	0.1	0	103	85	115				
Nickel	0.1021	0.000500	0.1	0	102	85	115				
Selenium	0.1008	0.000500	0.1	0	101	85	115				
Thallium	0.1019	0.000500	0.1	0.000002	102	85	115				

Sample ID 1901A27-01AMS	SampType: MS	TestCode: ICPMS_200.8	Units: mg/L	Prep Date: 1/31/2019	RunNo: 109816						
Client ID: Ruch Elementary	Batch ID: 43599	TestNo: EPA 200.8	(EPA 200.8)	Analysis Date: 1/31/2019	SeqNo: 1678787						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	0.1075	0.000500	0.1	0.000081	107	70	130				
Arsenic	0.1065	0.00100	0.1	0.001921	105	70	130				
Barium	0.1076	0.000500	0.1	0.000363	107	70	130				

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CLIENT: Medford School District
Work Order: 1901A27
Project: Ruch Elementary SOCR & IOC

ANALYTICAL QC SUMMARY REPORT

TestCode: ICPMS_200.8_PWS

Sample ID	1901A27-01AMS	SampType: MS	TestCode: ICPMS_200.8	Units: mg/L	Prep Date: 1/31/2019	RunNo: 109816					
Client ID:	Ruch Elementary	Batch ID: 43599	TestNo: EPA 200.8	(EPA 200.8)	Analysis Date: 1/31/2019	SeqNo: 1678787					
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cadmium	0.1002	0.000100	0.1	0.000031	100	70	130				
Chromium	0.09777	0.00100	0.1	0.000176	97.6	70	130				
Nickel	0.09219	0.000500	0.1	0.000565	91.6	70	130				
Selenium	0.09653	0.000500	0.1	0.000512	96.0	70	130				
Thallium	0.1010	0.000500	0.1	0	101	70	130				

Sample ID	1901A27-01AMSD	SampType: MSD	TestCode: ICPMS_200.8	Units: mg/L	Prep Date: 1/31/2019	RunNo: 109816					
Client ID:	Ruch Elementary	Batch ID: 43599	TestNo: EPA 200.8	(EPA 200.8)	Analysis Date: 1/31/2019	SeqNo: 1678788					
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	0.1046	0.000500	0.1	0.000081	105	70	130	0.1075	2.74	20	
Arsenic	0.09955	0.00100	0.1	0.001921	97.6	70	130	0.1065	6.78	20	
Barium	0.1003	0.000500	0.1	0.000363	99.9	70	130	0.1076	7.01	20	
Cadmium	0.09388	0.000100	0.1	0.000031	93.8	70	130	0.1002	6.48	20	
Chromium	0.09126	0.00100	0.1	0.000176	91.1	70	130	0.09777	6.88	20	
Nickel	0.08672	0.000500	0.1	0.000565	86.2	70	130	0.09219	6.12	20	
Selenium	0.09062	0.000500	0.1	0.000512	90.1	70	130	0.09653	6.31	20	
Thallium	0.09441	0.000500	0.1	0	94.4	70	130	0.101	6.77	20	

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