EMAILS RE: 2020 SEEP SAMPLING

From: Britt Pfaff-Dunton
To: Wooten, Kim (ECY)
Cc: Musa, Donna K. (ECY)
Subject: RE: A Avenue Landfill winter 2020 sampling
Date: Monday, April 20, 2020 1:50:33 PM

Hi Kim,
The samples were taken from the same surface water locations as previous sample events. S-1 is on the northwest of the site and S-2 is on the eastern side. D indicates a duplicate sample, F is a field blank and TB is for trip blank.

We are working on getting the data put into tables. Our staff time is limited in what we can do on this project at this time since public health COVID-19 work takes precedence.
Regards,

Britt

Britt Pfaff Dunton, REHS
Solid & Hazardous Waste Program Lead
Skagit County Public Health
700 South Second Street, Room 301
Mount Vernon WA 98273
360- 416-1500 (office)
360- 416-1562 (direct)

From: Wooten, Kim (ECY) <kiwo461@ECY.WA.GOV>
Sent: Monday, April 20, 2020 10:11 AM
To: Britt Pfaff-Dunton <brittp@co.skagit.wa.us>
Cc: Musa, Donna K. (ECY) <DMUS461@ECY.WA.GOV>
Subject: RE: A Avenue Landfill winter 2020 sampling

Hi Britt,

These results were passed along to me for a review before they went in the site file. Two quick questions for you:

- I'm assuming S-1-D is a duplicate, but can you clarify for me what S-2-F is?
- I only see the results for the samples collected on 2/28 – are the results from the 3/13 samples available?

Thanks!

Kim

From: Britt Pfaff-Dunton <brittp@co.skagit.wa.us>
Sent: Wednesday, April 15, 2020 6:06 PM
To: Jonn Lunsford (JonnL@cityofanacortes.org) <JonnL@cityofanacortes.org>; Musa, Donna K. (ECY) <DMUS461@ECY.WA.GOV>
Subject: A Avenue Landfill winter 2020 sampling

Hello Jonn and Donna,

Attached are the laboratory sample results from the surface water samples collected at the A Avenue Landfill on February 28, 2020 and March 13, 2020 by Skagit County Public Health.

The additional limited sample event on March 13, 2020 was conducted because the laboratory performing the sample analysis notified us that the samples collected for the methodology 8260SIM on 2/28/20 had gone past the standard hold time. All of the other methods were run within the standard hold times. Public Health conducted a limited resampling on 3/13/2020 only for method 8260SIM.

Regards,

Britt

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From:	Britt Pfaff-Dunton
To:	Jonn Lunsford (JonnL@cityofanacortes.org); Wooten, Kim (ECY); Musa, Donna K. (ECY)
Subject:	FW: A Avenue Landfill winter 2020 sampling
Date:	Monday, April 20, 2020 1:36:44 PM
Attachments:	20-07137_3_8000 Organics.pdf 20-07137_3_General Chemistry Data Report.pdf 20-07137_3_HCID Report.pdf 20-07137_4_Independent QC.pdf 20-07137_5_Dependent QC.pdf 20-07137_6_Surrogate Report.pdf 20-07137_7_Qualifier Definitions Report.pdf 20-07137coc.pdf 20-09144_3_8000 Organics.pdf 20-09144_6_Surrogate Report.pdf 20-09144coc.pdf

Hello Jonn, Donna, and Kim,

I inadvertently left off the laboratory results for our 3/13/2020 resampling event. Sorry about the error.

This email contains all of the laboratory results for the 2/28/20 and 3/13/20 sampling. I included both dates in this email to ensure you have the laboratory data.

Regards,

Britt
Britt Pfaff Dunton, REHS
Solid & Hazardous Waste Program Lead
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Britt

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2/28/20 SAMPLES

EDGE ANALYTICAL

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Bend, OR *Microbiology (e)*
20332 Empire Blvd Ste 4 - Bend, OR 97701 - 541.639.8425

WSDOE Lab C567

DATA REPORT

Client Name: Skagit County Public Health
700 South Second Street, Room 301
Mount Vernon, WA 98273

Reference Number: **20-07137**
Project: A Avenue

Lab Number: 14021
Field ID: S-1
Sample Description: North West
Matrix: Surface Water
Sample Date: 2/28/20
Extraction Date: 3/12/20
Extraction Method: 5030B

Report Date: 4/7/20
Date Analyzed: 3/12/20
Analyst: HY
Analytical Method: 8260C
Batch: 8260W_200312
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	Lab QL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	**ND**		ug/L		0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	**ND**		ug/L		0.13	1.00	a	
563-58-6	1,1 - DICHLOROPROPENE	**ND**		ug/L		0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	**ND**		ug/L		0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	**ND**		ug/L		0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	**ND**		ug/L		0.11	1.00	a	
76-13-1	1,1,2 - TRICHLOROTRIFLUOROETHANE	**ND**		ug/L		0.2	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	**ND**		ug/L		0.15	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB)	**ND**		ug/L		0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	**ND**		ug/L		0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	**ND**		ug/L		0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	**ND**		ug/L		0.11	1.00	a	
87-61-6	1,2,3 - TRICHLOROBENZENE	**ND**		ug/L		0.08	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	**ND**		ug/L		0.09	1.00	a	
120-82-1	1,2,4 - TRICHLOROBENZENE	**ND**		ug/L		0.13	1.00	a	
95-63-6	1,2,4 - TRIMETHYLBENZENE	**ND**		ug/L		0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	**ND**		ug/L		0.17	1.00	a	
541-73-1	1,3 - DICHLOROBENZENE (meta)	**ND**		ug/L		0.07	1.00	a	
142-28-9	1,3 - DICHLOROPROPANE	**ND**		ug/L		0.09	1.00	a	
108-67-8	1,3,5 - TRIMETHYLBENZENE	**ND**		ug/L		0.09	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	**ND**		ug/L		0.06	1.00	a	
109-69-3	1-CHLOROBUTANE	**ND**		ug/L		0.29	1.00	a	
594-20-7	2,2 - DICHLOROPROPANE	**ND**		ug/L		0.22	1.00	a	
78-93-3	2-BUTANONE (MEK)	**ND**		ug/L		2.63	1.00	a	
110-75-8	2-CHLOROETHYL VINYL ETHER	**ND**		ug/L		1.76	1.00	a	Screening Only
591-78-6	2-HEXANONE	**ND**		ug/L		3.76	1.00	a	

Notes:

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Permit QL = Quantitation Limt required by permit (listed in Appendix A) or other regulatory requirement.
D.F. - Dilution Factor.

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CAS	Compound	RESULT	Flag	UNITS	Lab QL	MDL	D.F.	Lab	COMMENT
79-46-9	2-NITROPROPANE	**ND**		ug/L		2.73	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	**ND**		ug/L		0.62	1.00	a	
67-64-1	ACETONE	**ND**		ug/L		0.74	1.00	a	
107-02-8	ACROLEIN	**ND**		ug/L		0.31	1.00	a	Screening Only
107-13-1	ACRYLONITRILE	**ND**		ug/L		1.83	1.00	a	
107-05-1	ALLYL CHLORIDE	**ND**		ug/L		0.26	1.00	a	
71-43-2	BENZENE	**ND**		ug/L		0.14	1.00	a	
108-86-1	BROMOBENZENE	**ND**		ug/L		0.09	1.00	a	
74-97-5	BROMOCHLOROMETHANE	**ND**		ug/L		0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	**ND**		ug/L		0.13	1.00	a	
75-25-2	BROMOFORM	**ND**		ug/L		0.2	1.00	a	
74-83-9	BROMOMETHANE	**ND**		ug/L		0.3	1.00	a	
75-15-0	CARBON DISULFIDE	**ND**		ug/L		0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	**ND**		ug/L		0.14	1.00	a	
108-90-7	CHLOROBENZENE	**ND**		ug/L		0.1	1.00	a	
75-45-6	CHLORODIFLUOROMETHANE (FREON-	**ND**		ug/L		0.16	1.00	a	
75-00-3	CHLOROETHANE	**ND**		ug/L		0.29	1.00	a	
67-66-3	CHLOROFORM	**ND**		ug/L		0.09	1.00	a	
74-87-3	CHLOROMETHANE	**ND**		ug/L		0.1	1.00	a	
156-59-2	CIS - 1,2 - DICHLOROETHENE	**ND**		ug/L		0.14	1.00	a	
10061-01-5	CIS - 1,3 - DICHLOROPROPENE	**ND**		ug/L		0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	**ND**		ug/L		0.13	1.00	a	
74-95-3	DIBROMOMETHANE	**ND**		ug/L		0.15	1.00	a	
75-71-8	DICHLORODIFLUOROMETHANE	**ND**		ug/L		0.23	1.00	a	
75-43-4	DICHLOROFLUOROMETHANE (FREON-	**ND**		ug/L		0.22	1.00	a	
60-29-7	DIETHYL ETHER	**ND**		ug/L		0.19	1.00	a	
97-63-2	ETHYL METHACRYLATE	**ND**		ug/L		2.13	1.00	a	
100-41-4	ETHYLBENZENE	**ND**		ug/L		0.09	1.00	a	
87-68-3	HEXACHLOROBUTADIENE	**ND**		ug/L		0.16	1.00	a	
67-72-1	HEXACHLOROETHANE	**ND**		ug/L			1.00	a	
98-82-8	ISOPROPYLBENZENE	**ND**		ug/L		0.13	1.00	a	
1330-20-7	M,P- XYLENE	**ND**		ug/L		0.22	1.00	a	
126-98-7	METHACRYLONITRILE	**ND**		ug/L		1.09	1.00	a	
96-33-3	METHYL ACRYLATE	**ND**		ug/L		1.2	1.00	a	
74-88-4	METHYL IODIDE	**ND**		ug/L		2.29	1.00	a	
80-62-6	METHYL METHACRYLATE	**ND**		ug/L		1.78	1.00	a	
1634-04-4	METHYL TERT-BUTYL ETHER	**ND**		ug/L		0.1	1.00	a	
75-09-2	METHYLENE CHLORIDE	**ND**		ug/L		0.28	1.00	a	
104-51-8	N - BUTYLBENZENE	**ND**		ug/L		0.11	1.00	a	
103-65-1	N - PROPYLBENZENE	**ND**		ug/L		0.13	1.00	a	
91-20-3	NAPHTHALENE	**ND**		ug/L		0.08	1.00	a	
95-49-8	O - CHLOROTOLUENE	**ND**		ug/L		0.08	1.00	a	
95-47-6	O - XYLENE	**ND**		ug/L		0.14	1.00	a	
106-43-4	P - CHLOROTOLUENE	**ND**		ug/L		0.11	1.00	a	
99-87-6	P - ISOPROPYLTOLUENE	**ND**		ug/L		0.1	1.00	a	
76-01-7	PENTACHLOROETHANE	**ND**		ug/L		0.21	1.00	a	
135-98-8	SEC - BUTYLBENZENE	**ND**		ug/L		0.13	1.00	a	

Notes:

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D.F. - Dilution Factor.

CAS	Compound	RESULT	Flag	UNITS	Lab QL	MDL	D.F.	Lab	COMMENT
100-42-5	STYRENE	**ND**		ug/L		0.07	1.00	a	Screening Only
98-06-6	TERT - BUTYLBENZENE	**ND**		ug/L		0.12	1.00	a	
127-18-4	TETRACHLOROETHYLENE	**ND**		ug/L		0.14	1.00	a	
109-99-9	TETRAHYDROFURAN	**ND**		ug/L		1.88	1.00	a	
108-88-3	TOLUENE	**ND**		ug/L		0.07	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	**ND**		ug/L		0.14	1.00	a	
10061-02-6	TRANS - 1,3 - DICHLOROPROPENE	**ND**		ug/L		0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	**ND**		ug/L		0.4	1.00	a	
79-01-6	TRICHLOROETHENE	**ND**		ug/L		0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	**ND**		ug/L		0.18	1.00	a	
108-05-4	VINYL ACETATE	**ND**		ug/L		1.39	1.00	a	
75-01-4	VINYL CHLORIDE	**ND**		ug/L		0.13	1.00	a	

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Bend, OR *Microbiology (e)*
20332 Empire Blvd Ste 4 - Bend, OR 97701 - 541.639.8425

WSDOE Lab C567

DATA REPORT

Client Name: Skagit County Public Health
700 South Second Street, Room 301
Mount Vernon, WA 98273

Reference Number: **20-07137**
Project: A Avenue

Lab Number: 14021
Field ID: S-1
Sample Description: North West
Matrix: Surface Water
Sample Date: 2/28/20
Extraction Date: 3/13/20
Extraction Method: 5030B

Report Date: 4/7/20
Date Analyzed: 3/13/20
Analyst: HY
Analytical Method: 8260SIM
Batch: 8260SIM_200313
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	Lab QL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds								
75-01-4	VINYL CHLORIDE (SIM)	**ND**		ug/L	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	**ND**		ug/L	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	**ND**		ug/L	0.01	0.0069	1.00	a	
123-91-1	1,4-DIOXANE (SIM)	**ND**		ug/L	5	2.8945	1.00	a	

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WSDOE Lab C567

DATA REPORT

Client Name: Skagit County Public Health
700 South Second Street, Room 301
Mount Vernon, WA 98273

Reference Number: **20-07137**
Project: A Avenue

Lab Number: 14021
Field ID: S-1
Sample Description: North West
Matrix: Surface Water
Sample Date: 2/28/20
Extraction Date: 3/6/20
Extraction Method: 3510C

Report Date: 4/7/20
Date Analyzed: 3/18/20
Analyst: NML
Analytical Method: 8270D
Batch: PAH_W200306
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	Lab QL	MDL	D.F.	Lab	COMMENT
	Non-Carcinogenic PAH								
83-32-9	ACENAPTHENE	**ND**		ug/L	0.1	0.04	1.00	a	
208-96-8	ACENAPHTHYLENE	**ND**		ug/L	0.1	0.07	1.00	a	
120-12-7	ANTHRACENE	**ND**		ug/L	0.1	0.05	1.00	a	
191-24-2	BENZO[G,H,I]PERYLENE	**ND**		ug/L	0.1	0.05	1.00	a	
206-44-0	FLUORANTHENE	**ND**		ug/L	0.1	0.05	1.00	a	
86-73-7	FLUORENE	**ND**		ug/L	0.1	0.05	1.00	a	
91-20-3	NAPHTHALENE	**ND**		ug/L	0.1	0.06	1.00	a	
85-01-8	PHENANTHRENE	**ND**		ug/L	0.1	0.06	1.00	a	
129-00-0	PYRENE	**ND**		ug/L	0.1	0.05	1.00	a	
90-12-0	1-METHYLNAPHTHALENE	**ND**		ug/L	0.1	0.06	1.00	a	
91-57-6	2-METHYLNAPHTHALENE	**ND**		ug/L	0.1	0.02	1.00	a	
	Carcinogenic PAH								
56-55-3	BENZ[A]ANTHRACENE	**ND**		ug/L	0.1	0.05	1.00	a	
50-32-8	BENZO[A]PYRENE	**ND**		ug/L	0.1	0.05	1.00	a	
205-99-2	BENZO[B]FLUORANTHENE	**ND**		ug/L	0.1	0.08	1.00	a	
207-08-9	BENZO[K]FLUORANTHENE	**ND**		ug/L	0.1	0.08	1.00	a	
218-01-9	CHRYSENE	**ND**		ug/L	0.1	0.06	1.00	a	
53-70-3	DIBENZ[A,H]ANTHRACENE	**ND**		ug/L	0.1	0.05	1.00	a	
193-39-5	INDENO[1,2,3,C,D]PYRENE	**ND**		ug/L	0.1	0.09	1.00	a	

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WSDOE Lab C567

DATA REPORT

Client Name: Skagit County Public Health
700 South Second Street, Room 301
Mount Vernon, WA 98273

Reference Number: **20-07137**
Project: A Avenue

Lab Number: 14022
Field ID: S-1-D
Sample Description: North West
Matrix: Surface Water
Sample Date: 2/28/20
Extraction Date: 3/12/20
Extraction Method: 5030B

Report Date: 4/7/20
Date Analyzed: 3/12/20
Analyst: HY
Analytical Method: 8260C
Batch: 8260W_200312
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	Lab QL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	**ND**		ug/L		0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	**ND**		ug/L		0.13	1.00	a	
563-58-6	1,1 - DICHLOROPROPENE	**ND**		ug/L		0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	**ND**		ug/L		0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	**ND**		ug/L		0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	**ND**		ug/L		0.11	1.00	a	
76-13-1	1,1,2 - TRICHLOROTRIFLUOROETHANE	**ND**		ug/L		0.2	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	**ND**		ug/L		0.15	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB)	**ND**		ug/L		0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	**ND**		ug/L		0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	**ND**		ug/L		0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	**ND**		ug/L		0.11	1.00	a	
87-61-6	1,2,3 - TRICHLOROBENZENE	**ND**		ug/L		0.08	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	**ND**		ug/L		0.09	1.00	a	
120-82-1	1,2,4 - TRICHLOROBENZENE	**ND**		ug/L		0.13	1.00	a	
95-63-6	1,2,4 - TRIMETHYLBENZENE	**ND**		ug/L		0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	**ND**		ug/L		0.17	1.00	a	
541-73-1	1,3 - DICHLOROBENZENE (meta)	**ND**		ug/L		0.07	1.00	a	
142-28-9	1,3 - DICHLOROPROPANE	**ND**		ug/L		0.09	1.00	a	
108-67-8	1,3,5 - TRIMETHYLBENZENE	**ND**		ug/L		0.09	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	**ND**		ug/L		0.06	1.00	a	
109-69-3	1-CHLOROBUTANE	**ND**		ug/L		0.29	1.00	a	
594-20-7	2,2 - DICHLOROPROPANE	**ND**		ug/L		0.22	1.00	a	
78-93-3	2-BUTANONE (MEK)	**ND**		ug/L		2.63	1.00	a	
110-75-8	2-CHLOROETHYL VINYL ETHER	**ND**		ug/L		1.76	1.00	a	Screening Only
591-78-6	2-HEXANONE	**ND**		ug/L		3.76	1.00	a	

Notes:

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D.F. - Dilution Factor.

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CAS	Compound	RESULT	Flag	UNITS	Lab QL	MDL	D.F.	Lab	COMMENT
79-46-9	2-NITROPROPANE	**ND**		ug/L		2.73	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	**ND**		ug/L		0.62	1.00	a	
67-64-1	ACETONE	**ND**		ug/L		0.74	1.00	a	
107-02-8	ACROLEIN	**ND**		ug/L		0.31	1.00	a	Screening Only
107-13-1	ACRYLONITRILE	**ND**		ug/L		1.83	1.00	a	
107-05-1	ALLYL CHLORIDE	**ND**		ug/L		0.26	1.00	a	
71-43-2	BENZENE	**ND**		ug/L		0.14	1.00	a	
108-86-1	BROMOBENZENE	**ND**		ug/L		0.09	1.00	a	
74-97-5	BROMOCHLOROMETHANE	**ND**		ug/L		0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	**ND**		ug/L		0.13	1.00	a	
75-25-2	BROMOFORM	**ND**		ug/L		0.2	1.00	a	
74-83-9	BROMOMETHANE	**ND**		ug/L		0.3	1.00	a	
75-15-0	CARBON DISULFIDE	**ND**		ug/L		0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	**ND**		ug/L		0.14	1.00	a	
108-90-7	CHLOROBENZENE	**ND**		ug/L		0.1	1.00	a	
75-45-6	CHLORODIFLUOROMETHANE (FREON-	**ND**		ug/L		0.16	1.00	a	
75-00-3	CHLOROETHANE	**ND**		ug/L		0.29	1.00	a	
67-66-3	CHLOROFORM	**ND**		ug/L		0.09	1.00	a	
74-87-3	CHLOROMETHANE	**ND**		ug/L		0.1	1.00	a	
156-59-2	CIS - 1,2 - DICHLOROETHENE	**ND**		ug/L		0.14	1.00	a	
10061-01-5	CIS - 1,3 - DICHLOROPROPENE	**ND**		ug/L		0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	**ND**		ug/L		0.13	1.00	a	
74-95-3	DIBROMOMETHANE	**ND**		ug/L		0.15	1.00	a	
75-71-8	DICHLORODIFLUOROMETHANE	**ND**		ug/L		0.23	1.00	a	
75-43-4	DICHLOROFLUOROMETHANE (FREON-	**ND**		ug/L		0.22	1.00	a	
60-29-7	DIETHYL ETHER	**ND**		ug/L		0.19	1.00	a	
97-63-2	ETHYL METHACRYLATE	**ND**		ug/L		2.13	1.00	a	
100-41-4	ETHYLBENZENE	**ND**		ug/L		0.09	1.00	a	
87-68-3	HEXACHLOROBUTADIENE	**ND**		ug/L		0.16	1.00	a	
67-72-1	HEXACHLOROETHANE	**ND**		ug/L			1.00	a	
98-82-8	ISOPROPYLBENZENE	**ND**		ug/L		0.13	1.00	a	
1330-20-7	M,P- XYLENE	**ND**		ug/L		0.22	1.00	a	
126-98-7	METHACRYLONITRILE	**ND**		ug/L		1.09	1.00	a	
96-33-3	METHYL ACRYLATE	**ND**		ug/L		1.2	1.00	a	
74-88-4	METHYL IODIDE	**ND**		ug/L		2.29	1.00	a	
80-62-6	METHYL METHACRYLATE	**ND**		ug/L		1.78	1.00	a	
1634-04-4	METHYL TERT-BUTYL ETHER	**ND**		ug/L		0.1	1.00	a	
75-09-2	METHYLENE CHLORIDE	**ND**		ug/L		0.28	1.00	a	
104-51-8	N - BUTYLBENZENE	**ND**		ug/L		0.11	1.00	a	
103-65-1	N - PROPYLBENZENE	**ND**		ug/L		0.13	1.00	a	
91-20-3	NAPHTHALENE	**ND**		ug/L		0.08	1.00	a	
95-49-8	O - CHLOROTOLUENE	**ND**		ug/L		0.08	1.00	a	
95-47-6	O - XYLENE	**ND**		ug/L		0.14	1.00	a	
106-43-4	P - CHLOROTOLUENE	**ND**		ug/L		0.11	1.00	a	
99-87-6	P - ISOPROPYLTOLUENE	**ND**		ug/L		0.1	1.00	a	
76-01-7	PENTACHLOROETHANE	**ND**		ug/L		0.21	1.00	a	
135-98-8	SEC - BUTYLBENZENE	**ND**		ug/L		0.13	1.00	a	

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CAS	Compound	RESULT	Flag	UNITS	Lab QL	MDL	D.F.	Lab	COMMENT
100-42-5	STYRENE	**ND**		ug/L		0.07	1.00	a	Screening Only
98-06-6	TERT - BUTYLBENZENE	**ND**		ug/L		0.12	1.00	a	
127-18-4	TETRACHLOROETHYLENE	**ND**		ug/L		0.14	1.00	a	
109-99-9	TETRAHYDROFURAN	**ND**		ug/L		1.88	1.00	a	
108-88-3	TOLUENE	**ND**		ug/L		0.07	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	**ND**		ug/L		0.14	1.00	a	
10061-02-6	TRANS - 1,3 - DICHLOROPROPENE	**ND**		ug/L		0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	**ND**		ug/L		0.4	1.00	a	
79-01-6	TRICHLOROETHENE	**ND**		ug/L		0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	**ND**		ug/L		0.18	1.00	a	
108-05-4	VINYL ACETATE	**ND**		ug/L		1.39	1.00	a	
75-01-4	VINYL CHLORIDE	**ND**		ug/L		0.13	1.00	a	

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EDGE ANALYTICAL

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Bellingham, WA *Microbiology (b)*
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Portland, OR *Microbiology/Chemistry (c)*
9150 SW Pioneer Ct Ste W - Wilsonville, OR 97070 - 503.682.7802

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Bend, OR *Microbiology (e)*
20332 Empire Blvd Ste 4 - Bend, OR 97701 - 541.639.8425

WSDOE Lab C567

DATA REPORT

Client Name: Skagit County Public Health
700 South Second Street, Room 301
Mount Vernon, WA 98273

Reference Number: **20-07137**
Project: A Avenue

Lab Number: 14022
Field ID: S-1-D
Sample Description: North West
Matrix: Surface Water
Sample Date: 2/28/20
Extraction Date: 3/13/20
Extraction Method: 5030B

Report Date: 4/7/20
Date Analyzed: 3/13/20
Analyst: HY
Analytical Method: 8260SIM
Batch: 8260SIM_200313
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	Lab QL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds								
75-01-4	VINYL CHLORIDE (SIM)	**ND**		ug/L	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	**ND**		ug/L	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	**ND**		ug/L	0.01	0.0069	1.00	a	
123-91-1	1,4-DIOXANE (SIM)	**ND**		ug/L	5	2.8945	1.00	a	

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WSDOE Lab C567

DATA REPORT

Client Name: Skagit County Public Health
700 South Second Street, Room 301
Mount Vernon, WA 98273

Reference Number: **20-07137**
Project: A Avenue

Lab Number: 14022
Field ID: S-1-D
Sample Description: North West
Matrix: Surface Water
Sample Date: 2/28/20
Extraction Date: 3/6/20
Extraction Method: 3510C

Report Date: 4/7/20
Date Analyzed: 3/18/20
Analyst: NML
Analytical Method: 8270D
Batch: PAH_W200306
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	Lab QL	MDL	D.F.	Lab	COMMENT
	Non-Carcinogenic PAH								
83-32-9	ACENAPTHENE	**ND**		ug/L	0.1	0.04	1.00	a	
208-96-8	ACENAPHTHYLENE	**ND**		ug/L	0.1	0.07	1.00	a	
120-12-7	ANTHRACENE	**ND**		ug/L	0.1	0.05	1.00	a	
191-24-2	BENZO[G,H,I]PERYLENE	**ND**		ug/L	0.1	0.05	1.00	a	
206-44-0	FLUORANTHENE	**ND**		ug/L	0.1	0.05	1.00	a	
86-73-7	FLUORENE	**ND**		ug/L	0.1	0.05	1.00	a	
91-20-3	NAPHTHALENE	**ND**		ug/L	0.1	0.06	1.00	a	
85-01-8	PHENANTHRENE	**ND**		ug/L	0.1	0.06	1.00	a	
129-00-0	PYRENE	**ND**		ug/L	0.1	0.05	1.00	a	
90-12-0	1-METHYLNAPHTHALENE	**ND**		ug/L	0.1	0.06	1.00	a	
91-57-6	2-METHYLNAPHTHALENE	**ND**		ug/L	0.1	0.02	1.00	a	
	Carcinogenic PAH								
56-55-3	BENZ[A]ANTHRACENE	**ND**		ug/L	0.1	0.05	1.00	a	
50-32-8	BENZO[A]PYRENE	**ND**		ug/L	0.1	0.05	1.00	a	
205-99-2	BENZO[B]FLUORANTHENE	**ND**		ug/L	0.1	0.08	1.00	a	
207-08-9	BENZO[K]FLUORANTHENE	**ND**		ug/L	0.1	0.08	1.00	a	
218-01-9	CHRYSENE	**ND**		ug/L	0.1	0.06	1.00	a	
53-70-3	DIBENZ[A,H]ANTHRACENE	**ND**		ug/L	0.1	0.05	1.00	a	
193-39-5	INDENO[1,2,3,C,D]PYRENE	**ND**		ug/L	0.1	0.09	1.00	a	

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WSDOE Lab C567

DATA REPORT

Client Name: Skagit County Public Health
700 South Second Street, Room 301
Mount Vernon, WA 98273

Reference Number: **20-07137**
Project: A Avenue

Lab Number: 14023
Field ID: S-2
Sample Description: South East
Matrix: Surface Water
Sample Date: 2/28/20
Extraction Date: 3/12/20
Extraction Method: 5030B

Report Date: 4/7/20
Date Analyzed: 3/12/20
Analyst: HY
Analytical Method: 8260C
Batch: 8260W_200312
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	Lab QL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	**ND**		ug/L		0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	**ND**		ug/L		0.13	1.00	a	
563-58-6	1,1 - DICHLOROPROPENE	**ND**		ug/L		0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	**ND**		ug/L		0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	**ND**		ug/L		0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	**ND**		ug/L		0.11	1.00	a	
76-13-1	1,1,2 - TRICHLOROTRIFLUOROETHANE	**ND**		ug/L		0.2	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	**ND**		ug/L		0.15	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB)	**ND**		ug/L		0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	**ND**		ug/L		0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	**ND**		ug/L		0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	**ND**		ug/L		0.11	1.00	a	
87-61-6	1,2,3 - TRICHLOROBENZENE	**ND**		ug/L		0.08	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	**ND**		ug/L		0.09	1.00	a	
120-82-1	1,2,4 - TRICHLOROBENZENE	**ND**		ug/L		0.13	1.00	a	
95-63-6	1,2,4 - TRIMETHYLBENZENE	**ND**		ug/L		0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	**ND**		ug/L		0.17	1.00	a	
541-73-1	1,3 - DICHLOROBENZENE (meta)	**ND**		ug/L		0.07	1.00	a	
142-28-9	1,3 - DICHLOROPROPANE	**ND**		ug/L		0.09	1.00	a	
108-67-8	1,3,5 - TRIMETHYLBENZENE	**ND**		ug/L		0.09	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	**ND**		ug/L		0.06	1.00	a	
109-69-3	1-CHLOROBUTANE	**ND**		ug/L		0.29	1.00	a	
594-20-7	2,2 - DICHLOROPROPANE	**ND**		ug/L		0.22	1.00	a	
78-93-3	2-BUTANONE (MEK)	**ND**		ug/L		2.63	1.00	a	
110-75-8	2-CHLOROETHYL VINYL ETHER	**ND**		ug/L		1.76	1.00	a	Screening Only
591-78-6	2-HEXANONE	**ND**		ug/L		3.76	1.00	a	

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79-46-9	2-NITROPROPANE	**ND**		ug/L		2.73	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	**ND**		ug/L		0.62	1.00	a	
67-64-1	ACETONE	**ND**		ug/L		0.74	1.00	a	
107-02-8	ACROLEIN	**ND**		ug/L		0.31	1.00	a	Screening Only
107-13-1	ACRYLONITRILE	**ND**		ug/L		1.83	1.00	a	
107-05-1	ALLYL CHLORIDE	**ND**		ug/L		0.26	1.00	a	
71-43-2	BENZENE	**ND**		ug/L		0.14	1.00	a	
108-86-1	BROMOBENZENE	**ND**		ug/L		0.09	1.00	a	
74-97-5	BROMOCHLOROMETHANE	**ND**		ug/L		0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	**ND**		ug/L		0.13	1.00	a	
75-25-2	BROMOFORM	**ND**		ug/L		0.2	1.00	a	
74-83-9	BROMOMETHANE	**ND**		ug/L		0.3	1.00	a	
75-15-0	CARBON DISULFIDE	**ND**		ug/L		0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	**ND**		ug/L		0.14	1.00	a	
108-90-7	CHLOROBENZENE	**ND**		ug/L		0.1	1.00	a	
75-45-6	CHLORODIFLUOROMETHANE (FREON-	**ND**		ug/L		0.16	1.00	a	
75-00-3	CHLOROETHANE	**ND**		ug/L		0.29	1.00	a	
67-66-3	CHLOROFORM	**ND**		ug/L		0.09	1.00	a	
74-87-3	CHLOROMETHANE	**ND**		ug/L		0.1	1.00	a	
156-59-2	CIS - 1,2 - DICHLOROETHENE	**ND**		ug/L		0.14	1.00	a	
10061-01-5	CIS - 1,3 - DICHLOROPROPENE	**ND**		ug/L		0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	**ND**		ug/L		0.13	1.00	a	
74-95-3	DIBROMOMETHANE	**ND**		ug/L		0.15	1.00	a	
75-71-8	DICHLORODIFLUOROMETHANE	**ND**		ug/L		0.23	1.00	a	
75-43-4	DICHLOROFLUOROMETHANE (FREON-	**ND**		ug/L		0.22	1.00	a	
60-29-7	DIETHYL ETHER	**ND**		ug/L		0.19	1.00	a	
97-63-2	ETHYL METHACRYLATE	**ND**		ug/L		2.13	1.00	a	
100-41-4	ETHYLBENZENE	**ND**		ug/L		0.09	1.00	a	
87-68-3	HEXACHLOROBUTADIENE	**ND**		ug/L		0.16	1.00	a	
67-72-1	HEXACHLOROETHANE	**ND**		ug/L			1.00	a	
98-82-8	ISOPROPYLBENZENE	**ND**		ug/L		0.13	1.00	a	
1330-20-7	M,P- XYLENE	**ND**		ug/L		0.22	1.00	a	
126-98-7	METHACRYLONITRILE	**ND**		ug/L		1.09	1.00	a	
96-33-3	METHYL ACRYLATE	**ND**		ug/L		1.2	1.00	a	
74-88-4	METHYL IODIDE	**ND**		ug/L		2.29	1.00	a	
80-62-6	METHYL METHACRYLATE	**ND**		ug/L		1.78	1.00	a	
1634-04-4	METHYL TERT-BUTYL ETHER	**ND**		ug/L		0.1	1.00	a	
75-09-2	METHYLENE CHLORIDE	**ND**		ug/L		0.28	1.00	a	
104-51-8	N - BUTYLBENZENE	**ND**		ug/L		0.11	1.00	a	
103-65-1	N - PROPYLBENZENE	**ND**		ug/L		0.13	1.00	a	
91-20-3	NAPHTHALENE	**ND**		ug/L		0.08	1.00	a	
95-49-8	O - CHLOROTOLUENE	**ND**		ug/L		0.08	1.00	a	
95-47-6	O - XYLENE	**ND**		ug/L		0.14	1.00	a	
106-43-4	P - CHLOROTOLUENE	**ND**		ug/L		0.11	1.00	a	
99-87-6	P - ISOPROPYLTOLUENE	**ND**		ug/L		0.1	1.00	a	
76-01-7	PENTACHLOROETHANE	**ND**		ug/L		0.21	1.00	a	
135-98-8	SEC - BUTYLBENZENE	**ND**		ug/L		0.13	1.00	a	

Notes:

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D.F. - Dilution Factor.

CAS	Compound	RESULT	Flag	UNITS	Lab QL	MDL	D.F.	Lab	COMMENT
100-42-5	STYRENE	**ND**		ug/L		0.07	1.00	a	Screening Only
98-06-6	TERT - BUTYLBENZENE	**ND**		ug/L		0.12	1.00	a	
127-18-4	TETRACHLOROETHYLENE	**ND**		ug/L		0.14	1.00	a	
109-99-9	TETRAHYDROFURAN	**ND**		ug/L		1.88	1.00	a	
108-88-3	TOLUENE	**ND**		ug/L		0.07	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	**ND**		ug/L		0.14	1.00	a	
10061-02-6	TRANS - 1,3 - DICHLOROPROPENE	**ND**		ug/L		0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	**ND**		ug/L		0.4	1.00	a	
79-01-6	TRICHLOROETHENE	**ND**		ug/L		0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	**ND**		ug/L		0.18	1.00	a	
108-05-4	VINYL ACETATE	**ND**		ug/L		1.39	1.00	a	
75-01-4	VINYL CHLORIDE	**ND**		ug/L		0.13	1.00	a	

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Bend, OR *Microbiology (e)*
20332 Empire Blvd Ste 4 - Bend, OR 97701 - 541.639.8425

WSDOE Lab C567

DATA REPORT

Client Name: Skagit County Public Health
700 South Second Street, Room 301
Mount Vernon, WA 98273

Reference Number: **20-07137**
Project: A Avenue

Lab Number: 14023
Field ID: S-2
Sample Description: South East
Matrix: Surface Water
Sample Date: 2/28/20
Extraction Date: 3/13/20
Extraction Method: 5030B

Report Date: 4/7/20
Date Analyzed: 3/13/20
Analyst: HY
Analytical Method: 8260SIM
Batch: 8260SIM_200313
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	Lab QL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds								
75-01-4	VINYL CHLORIDE (SIM)	**ND**		ug/L	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	**ND**		ug/L	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	**ND**		ug/L	0.01	0.0069	1.00	a	
123-91-1	1,4-DIOXANE (SIM)	**ND**		ug/L	5	2.8945	1.00	a	

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D.F. - Dilution Factor.

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WSDOE Lab C567

DATA REPORT

Client Name: Skagit County Public Health
700 South Second Street, Room 301
Mount Vernon, WA 98273

Reference Number: **20-07137**
Project: A Avenue

Lab Number: 14023
Field ID: S-2
Sample Description: South East
Matrix: Surface Water
Sample Date: 2/28/20
Extraction Date: 3/6/20
Extraction Method: 3510C

Report Date: 4/7/20
Date Analyzed: 3/18/20
Analyst: NML
Analytical Method: 8270D
Batch: PAH_W200306
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	Lab QL	MDL	D.F.	Lab	COMMENT
	Non-Carcinogenic PAH								
83-32-9	ACENAPTHENE	**ND**		ug/L	0.1	0.04	1.00	a	
208-96-8	ACENAPHTHYLENE	**ND**		ug/L	0.1	0.07	1.00	a	
120-12-7	ANTHRACENE	**ND**		ug/L	0.1	0.05	1.00	a	
191-24-2	BENZO[G,H,I]PERYLENE	**ND**		ug/L	0.1	0.05	1.00	a	
206-44-0	FLUORANTHENE	**ND**		ug/L	0.1	0.05	1.00	a	
86-73-7	FLUORENE	**ND**		ug/L	0.1	0.05	1.00	a	
91-20-3	NAPHTHALENE	**ND**		ug/L	0.1	0.06	1.00	a	
85-01-8	PHENANTHRENE	**ND**		ug/L	0.1	0.06	1.00	a	
129-00-0	PYRENE	**ND**		ug/L	0.1	0.05	1.00	a	
90-12-0	1-METHYLNAPHTHALENE	**ND**		ug/L	0.1	0.06	1.00	a	
91-57-6	2-METHYLNAPHTHALENE	**ND**		ug/L	0.1	0.02	1.00	a	
	Carcinogenic PAH								
56-55-3	BENZ[A]ANTHRACENE	**ND**		ug/L	0.1	0.05	1.00	a	
50-32-8	BENZO[A]PYRENE	**ND**		ug/L	0.1	0.05	1.00	a	
205-99-2	BENZO[B]FLUORANTHENE	**ND**		ug/L	0.1	0.08	1.00	a	
207-08-9	BENZO[K]FLUORANTHENE	**ND**		ug/L	0.1	0.08	1.00	a	
218-01-9	CHRYSENE	**ND**		ug/L	0.1	0.06	1.00	a	
53-70-3	DIBENZ[A,H]ANTHRACENE	**ND**		ug/L	0.1	0.05	1.00	a	
193-39-5	INDENO[1,2,3,C,D]PYRENE	**ND**		ug/L	0.1	0.09	1.00	a	

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WSDOE Lab C567

DATA REPORT

Client Name: Skagit County Public Health
700 South Second Street, Room 301
Mount Vernon, WA 98273

Reference Number: **20-07137**
Project: A Avenue

Lab Number: 14024
Field ID: S-2-F
Sample Description: South East
Matrix: Surface Water
Sample Date: 2/28/20
Extraction Date: 3/12/20
Extraction Method: 5030B

Report Date: 4/7/20
Date Analyzed: 3/12/20
Analyst: HY
Analytical Method: 8260C
Batch: 8260W_200312
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	Lab QL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	**ND**		ug/L		0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	**ND**		ug/L		0.13	1.00	a	
563-58-6	1,1 - DICHLOROPROPENE	**ND**		ug/L		0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	**ND**		ug/L		0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	**ND**		ug/L		0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	**ND**		ug/L		0.11	1.00	a	
76-13-1	1,1,2 - TRICHLOROTRIFLUOROETHANE	**ND**		ug/L		0.2	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	**ND**		ug/L		0.15	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB)	**ND**		ug/L		0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	**ND**		ug/L		0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	**ND**		ug/L		0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	**ND**		ug/L		0.11	1.00	a	
87-61-6	1,2,3 - TRICHLOROBENZENE	**ND**		ug/L		0.08	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	**ND**		ug/L		0.09	1.00	a	
120-82-1	1,2,4 - TRICHLOROBENZENE	**ND**		ug/L		0.13	1.00	a	
95-63-6	1,2,4 - TRIMETHYLBENZENE	**ND**		ug/L		0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	**ND**		ug/L		0.17	1.00	a	
541-73-1	1,3 - DICHLOROBENZENE (meta)	**ND**		ug/L		0.07	1.00	a	
142-28-9	1,3 - DICHLOROPROPANE	**ND**		ug/L		0.09	1.00	a	
108-67-8	1,3,5 - TRIMETHYLBENZENE	**ND**		ug/L		0.09	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	**ND**		ug/L		0.06	1.00	a	
109-69-3	1-CHLOROBUTANE	**ND**		ug/L		0.29	1.00	a	
594-20-7	2,2 - DICHLOROPROPANE	**ND**		ug/L		0.22	1.00	a	
78-93-3	2-BUTANONE (MEK)	**ND**		ug/L		2.63	1.00	a	
110-75-8	2-CHLOROETHYL VINYL ETHER	**ND**		ug/L		1.76	1.00	a	Screening Only
591-78-6	2-HEXANONE	**ND**		ug/L		3.76	1.00	a	

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79-46-9	2-NITROPROPANE	**ND**		ug/L		2.73	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	**ND**		ug/L		0.62	1.00	a	
67-64-1	ACETONE	**ND**		ug/L		0.74	1.00	a	
107-02-8	ACROLEIN	**ND**		ug/L		0.31	1.00	a	Screening Only
107-13-1	ACRYLONITRILE	**ND**		ug/L		1.83	1.00	a	
107-05-1	ALLYL CHLORIDE	**ND**		ug/L		0.26	1.00	a	
71-43-2	BENZENE	**ND**		ug/L		0.14	1.00	a	
108-86-1	BROMOBENZENE	**ND**		ug/L		0.09	1.00	a	
74-97-5	BROMOCHLOROMETHANE	**ND**		ug/L		0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	**ND**		ug/L		0.13	1.00	a	
75-25-2	BROMOFORM	**ND**		ug/L		0.2	1.00	a	
74-83-9	BROMOMETHANE	**ND**		ug/L		0.3	1.00	a	
75-15-0	CARBON DISULFIDE	**ND**		ug/L		0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	**ND**		ug/L		0.14	1.00	a	
108-90-7	CHLOROBENZENE	**ND**		ug/L		0.1	1.00	a	
75-45-6	CHLORODIFLUOROMETHANE (FREON-	**ND**		ug/L		0.16	1.00	a	
75-00-3	CHLOROETHANE	**ND**		ug/L		0.29	1.00	a	
67-66-3	CHLOROFORM	**0.5**		ug/L		0.09	1.00	a	
74-87-3	CHLOROMETHANE	**ND**		ug/L		0.1	1.00	a	
156-59-2	CIS - 1,2 - DICHLOROETHENE	**ND**		ug/L		0.14	1.00	a	
10061-01-5	CIS - 1,3 - DICHLOROPROPENE	**ND**		ug/L		0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	**ND**		ug/L		0.13	1.00	a	
74-95-3	DIBROMOMETHANE	**ND**		ug/L		0.15	1.00	a	
75-71-8	DICHLORODIFLUOROMETHANE	**ND**		ug/L		0.23	1.00	a	
75-43-4	DICHLOROFLUOROMETHANE (FREON-	**ND**		ug/L		0.22	1.00	a	
60-29-7	DIETHYL ETHER	**ND**		ug/L		0.19	1.00	a	
97-63-2	ETHYL METHACRYLATE	**ND**		ug/L		2.13	1.00	a	
100-41-4	ETHYLBENZENE	**ND**		ug/L		0.09	1.00	a	
87-68-3	HEXACHLOROBUTADIENE	**ND**		ug/L		0.16	1.00	a	
67-72-1	HEXACHLOROETHANE	**ND**		ug/L			1.00	a	
98-82-8	ISOPROPYLBENZENE	**ND**		ug/L		0.13	1.00	a	
1330-20-7	M,P- XYLENE	**ND**		ug/L		0.22	1.00	a	
126-98-7	METHACRYLONITRILE	**ND**		ug/L		1.09	1.00	a	
96-33-3	METHYL ACRYLATE	**ND**		ug/L		1.2	1.00	a	
74-88-4	METHYL IODIDE	**ND**		ug/L		2.29	1.00	a	
80-62-6	METHYL METHACRYLATE	**ND**		ug/L		1.78	1.00	a	
1634-04-4	METHYL TERT-BUTYL ETHER	**ND**		ug/L		0.1	1.00	a	
75-09-2	METHYLENE CHLORIDE	**ND**		ug/L		0.28	1.00	a	
104-51-8	N - BUTYLBENZENE	**ND**		ug/L		0.11	1.00	a	
103-65-1	N - PROPYLBENZENE	**ND**		ug/L		0.13	1.00	a	
91-20-3	NAPHTHALENE	**ND**		ug/L		0.08	1.00	a	
95-49-8	O - CHLOROTOLUENE	**ND**		ug/L		0.08	1.00	a	
95-47-6	O - XYLENE	**ND**		ug/L		0.14	1.00	a	
106-43-4	P - CHLOROTOLUENE	**ND**		ug/L		0.11	1.00	a	
99-87-6	P - ISOPROPYLTOLUENE	**ND**		ug/L		0.1	1.00	a	
76-01-7	PENTACHLOROETHANE	**ND**		ug/L		0.21	1.00	a	
135-98-8	SEC - BUTYLBENZENE	**ND**		ug/L		0.13	1.00	a	

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CAS	Compound	RESULT	Flag	UNITS	Lab QL	MDL	D.F.	Lab	COMMENT
100-42-5	STYRENE	**ND**		ug/L		0.07	1.00	a	Screening Only
98-06-6	TERT - BUTYLBENZENE	**ND**		ug/L		0.12	1.00	a	
127-18-4	TETRACHLOROETHYLENE	**ND**		ug/L		0.14	1.00	a	
109-99-9	TETRAHYDROFURAN	**ND**		ug/L		1.88	1.00	a	
108-88-3	TOLUENE	**ND**		ug/L		0.07	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	**ND**		ug/L		0.14	1.00	a	
10061-02-6	TRANS - 1,3 - DICHLOROPROPENE	**ND**		ug/L		0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	**ND**		ug/L		0.4	1.00	a	
79-01-6	TRICHLOROETHENE	**ND**		ug/L		0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	**ND**		ug/L		0.18	1.00	a	
108-05-4	VINYL ACETATE	**ND**		ug/L		1.39	1.00	a	
75-01-4	VINYL CHLORIDE	**ND**		ug/L		0.13	1.00	a	

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Portland, OR *Microbiology/Chemistry (c)*
9150 SW Pioneer Ct Ste W - Wilsonville, OR 97070 - 503.682.7802

Corvallis, OR *Microbiology/Chemistry (d)*
1100 NE Circle Blvd, Ste 130 - Corvallis, OR 97330 - 541.753.4946

Bend, OR *Microbiology (e)*
20332 Empire Blvd Ste 4 - Bend, OR 97701 - 541.639.8425

Data Report

Client Name: Skagit County Public Health
700 South Second Street, Room 301
Mount Vernon, WA 98273

Reference Number: **20-07137**
Project: A Avenue

Report Date: 4/7/20

Date Received: 2/28/20
Approved by: ajw,bj,bsp
Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

Sample Description: S-1 - North West
Lab Number: 14021 Sample Comment:
Sample Type:

Sample Date: 2/28/20 10:30 am
Collected By: Britt Pfaff-Dunton/Dale

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
7440-70-2	**CALCIUM**	50.5	0.500	0.009	mg/L	1.0	200.7	a	3/2/20	BJ	200.7_200302A	
7439-89-6	**IRON**	0.91	0.050	0.0012	mg/L	1.0	200.7	a	3/2/20	BJ	200.7_200302A	
7439-95-4	**MAGNESIUM**	13.2	0.500	0.001	mg/L	1.0	200.7	a	3/2/20	BJ	200.7_200302A	
7439-96-5	**MANGANESE**	0.091	0.001	0.0002	mg/L	1.0	200.7	a	3/2/20	BJ	200.7_200302A	
7440-09-7	**POTASSIUM**	6.7	1.0	0.1	mg/L	1.0	200.7	a	3/2/20	BJ	200.7_200302A	
7440-23-5	**SODIUM**	16.4	0.5	0.05	mg/L	1.0	200.7	a	3/2/20	BJ	200.7_200302A	
16887-00-6	**CHLORIDE**	15.9	0.1	0.05	mg/L	1.0	300.0	a	2/28/20	AJW	IC02_200228A	
14797-55-8	**NITRATE-N**	ND	0.100	0.011	mg/L	1.0	300.0	a	2/28/20	AJW	IC02_200228A	
14797-65-0	**NITRITE-N**	ND	0.10	0.01	mg/L	1.0	300.0	a	2/28/20	AJW	IC02_200228A	
14808-79-8	**SULFATE**	18.4	0.2	0.02	mg/L	1.0	300.0	a	2/28/20	AJW	IC02_200228A	
7664-41-7	**AMMONIA-N**	0.07	0.010	0.006	mg/L	1.0	350.1	a	3/4/20	BSP	350.1_200304	
7439-97-6	**MERCURY**	ND	0.0002	1.90E-05	mg/L	1.0	7470A	a	3/12/20	AJW	7470A_200312	
E-14506	**ALKALINITY**	220.4	10		mg CaCO3/L	10.0	SM2320 B	a	3/8/20	SRS	ALK_200308	
NA	**BICARBONATE**	218.2	5		mg CaCO3/L	5.0	SM2320 B	a	3/15/20	SRS	ALK_200315	
E-10173	**TOTAL DISSOLVED SOLIDS (TDS)**	296	10		mg/L	1.0	SM2540 C	a	3/4/20	AJW	TDS_200228	
E-10117	**CHEMICAL OXYGEN DEMAND**	39	20	9	mg/L	1.0	SM5220 D	a	3/4/20	BSP	COD_200304	
E-10195	**TOTAL ORGANIC CARBON**	12.39	0.15	0.076	mg/L	1.0	SM5310 B	a	3/1/20	BJ	TOC_200229A	
7440-36-0	**ANTIMONY**	0.0005 J	0.001	6.91E-06	mg/L	1.0	200.8/3010A	a	3/4/20	BJ	200.8_200304B2	
7440-38-2	**ARSENIC**	0.0007	0.0005	2.18E-05	mg/L	1.0	200.8/3010A	a	3/4/20	BJ	200.8_200304B2	
7440-39-3	**BARIUM**	0.0869	0.001	1.49E-05	mg/L	1.0	200.8/3010A	a	3/4/20	BJ	200.8_200304B2	
7440-41-7	**BERYLLIUM**	ND	0.0003	6.76E-06	mg/L	1.0	200.8/3010A	a	3/4/20	BJ	200.8_200304B2	
7440-43-9	**CADMIUM**	0.0002 J	0.00025	1.13E-05	mg/L	1.0	200.8/3010A	a	3/4/20	BJ	200.8_200304B2	
7440-47-3	**CHROMIUM**	0.0018	0.00025	2.03E-05	mg/L	1.0	200.8/3010A	a	3/4/20	BJ	200.8_200304B2	
7440-50-8	**COPPER**	0.0109	0.002	2.76E-05	mg/L	1.0	200.8/3010A	a	3/4/20	BJ	200.8_200304B2	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor

If you have any questions concerning this report contact us at the above phone number.

Form: cResult.rpt

Reference Number: **20-07137**
Report Date: 4/7/20

Data Report

7439-92-1	**LEAD**	0.0011	0.0005	6.66E-06	mg/L	1.0	200.8/3010A	a	3/4/20	BJ	200.8_200304B2
7440-02-0	**NICKEL**	0.0047	0.0005	1.62E-05	mg/L	1.0	200.8/3010A	a	3/4/20	BJ	200.8_200304B2
7782-49-2	**SELENIUM**	0.0006 J	0.001	2.66E-05	mg/L	1.0	200.8/3010A	a	3/4/20	BJ	200.8_200304B2
7440-22-4	**SILVER**	0.00012 J	0.0002	1.17E-05	mg/L	1.0	200.8/3010A	a	3/4/20	BJ	200.8_200304B2
7440-28-0	**THALLIUM**	0.000025 J	0.00036	7.06E-06	mg/L	1.0	200.8/3010A	a	3/4/20	BJ	200.8_200304B2
7440-66-6	**ZINC**	0.0646	0.0025	0.00055	mg/L	1.0	200.8/3010A	a	3/4/20	BJ	200.8_200304B2
7439-89-6	**IRON, Dissolved**	0.34	0.050	0.0012	mg/L	1.0	200.7/FILTER	a	3/2/20	BJ	200.7_200302A
7439-96-5	**MANGANESE, Dissolved**	0.074	0.001	0.0002	mg/L	1.0	200.7/FILTER	a	3/2/20	BJ	200.7_200302A
7440-36-0	**ANTIMONY, Dissolved**	0.0007 J	0.001	0.0001	mg/L	1.0	200.8/FILTER	a	3/3/20	AJW	200.8_200303A2
7440-38-2	**ARSENIC, Dissolved**	0.0007	0.0005	5.30E-05	mg/L	1.0	200.8/FILTER	a	3/3/20	AJW	200.8_200303A2
7440-39-3	**BARIUM, Dissolved**	0.0907	0.001	6.60E-05	mg/L	1.0	200.8/FILTER	a	3/3/20	AJW	200.8_200303A2
7440-41-7	**BERYLLIUM, Dissolved**	ND	0.0003	1.00E-05	mg/L	1.0	200.8/FILTER	a	3/3/20	AJW	200.8_200303A2
7440-43-9	**CADMIUM, Dissolved**	0.0001 J	0.00025	8.20E-06	mg/L	1.0	200.8/FILTER	a	3/3/20	AJW	200.8_200303A2
7440-47-3	**CHROMIUM, Dissolved**	0.0003 J	0.001	0.00015	mg/L	1.0	200.8/FILTER	a	3/3/20	AJW	200.8_200303A2
7440-48-4	**COBALT, Dissolved**	0.0005 J	0.001	1.80E-05	mg/L	1.0	200.8/FILTER	a	3/3/20	AJW	200.8_200303A2
7440-50-8	**COPPER, Dissolved**	0.0075	0.002	0.00027	mg/L	1.0	200.8/FILTER	a	3/3/20	AJW	200.8_200303A2
7439-92-1	**LEAD, Dissolved**	0.0003 J	0.0005	1.60E-05	mg/L	1.0	200.8/FILTER	a	3/3/20	AJW	200.8_200303A2
7440-02-0	**NICKEL, Dissolved**	0.0029	0.0005	1.80E-05	mg/L	1.0	200.8/FILTER	a	3/3/20	AJW	200.8_200303A2
7782-49-2	**SELENIUM, Dissolved**	0.0005 J	0.001	0.00011	mg/L	1.0	200.8/FILTER	a	3/3/20	AJW	200.8_200303A2
7440-22-4	**SILVER, Dissolved**	ND	0.0002	0.00013	mg/L	1.0	200.8/FILTER	a	3/3/20	AJW	200.8_200303A2
7440-28-0	**THALLIUM, Dissolved**	0.00002 J	0.00036	1.30E-05	mg/L	1.0	200.8/FILTER	a	3/3/20	AJW	200.8_200303A2
7440-62-2	**VANADIUM, Dissolved**	0.0003 J	0.001	4.00E-05	mg/L	1.0	200.8/FILTER	a	3/3/20	AJW	200.8_200303A2
7440-66-6	**ZINC, Dissolved**	0.0394	0.0025	0.0001	mg/L	1.0	200.8/FILTER	a	3/3/20	AJW	200.8_200303A2
7439-97-6	**MERCURY, Dissolved**	ND	0.0002	5.30E-05	mg/L	1.0	245.1/FILTER	a	3/9/20	AJW	245.1_200309

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor

EDGE ANALYTICAL

Reference Number: **20-07137**
Report Date: 4/7/20

Data Report

Sample Description: S-1-D - North West
Lab Number: 14022 Sample Comment:
Sample Type:

Sample Date: 2/28/20 10:30 am
Collected By: Britt Pfaff-Dunton/Dale

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
7440-70-2	**CALCIUM**	76.3	0.500	0.009	mg/L	1.0	200.7	a	3/2/20	BJ	200.7_200302A	
7439-89-6	**IRON**	0.68	0.050	0.0012	mg/L	1.0	200.7	a	3/2/20	BJ	200.7_200302A	
7439-95-4	**MAGNESIUM**	27.1	0.500	0.001	mg/L	1.0	200.7	a	3/2/20	BJ	200.7_200302A	
7439-96-5	**MANGANESE**	0.250	0.001	0.0002	mg/L	1.0	200.7	a	3/2/20	BJ	200.7_200302A	
7440-09-7	**POTASSIUM**	10.0	1.0	0.1	mg/L	1.0	200.7	a	3/2/20	BJ	200.7_200302A	
7440-23-5	**SODIUM**	11.9	0.5	0.05	mg/L	1.0	200.7	a	3/2/20	BJ	200.7_200302A	
16887-00-6	**CHLORIDE**	6.6	0.1	0.05	mg/L	1.0	300.0	a	2/28/20	AJW	IC02_200228A	
14797-55-8	**NITRATE-N**	0.25	0.100	0.011	mg/L	1.0	300.0	a	2/28/20	AJW	IC02_200228A	
14797-65-0	**NITRITE-N**	ND	0.10	0.01	mg/L	1.0	300.0	a	2/28/20	AJW	IC02_200228A	
14808-79-8	**SULFATE**	19.5	0.2	0.02	mg/L	1.0	300.0	a	2/28/20	AJW	IC02_200228A	
7664-41-7	**AMMONIA-N**	0.16	0.010	0.006	mg/L	1.0	350.1	a	3/4/20	BSP	350.1_200304	
7439-97-6	**MERCURY**	ND	0.0002	1.90E-05	mg/L	1.0	7470A	a	3/12/20	AJW	7470A_200312	
E-14506	**ALKALINITY**	341.6	10		mg CaCO3/L	10.0	SM2320 B	a	3/8/20	SRS	ALK_200308	
NA	**BICARBONATE**	337.5	5		mg CaCO3/L	5.0	SM2320 B	a	3/15/20	SRS	ALK_200315	
E-10173	**TOTAL DISSOLVED SOLIDS (TDS)**	434	10		mg/L	1.0	SM2540 C	a	3/4/20	AJW	TDS_200228	
E-10117	**CHEMICAL OXYGEN DEMAND**	58	20	9	mg/L	1.0	SM5220 D	a	3/4/20	BSP	COD_200304	
E-10195	**TOTAL ORGANIC CARBON**	17.09	0.15	0.076	mg/L	1.0	SM5310 B	a	3/1/20	BJ	TOC_200229A	
7440-36-0	**ANTIMONY**	0.0005 J	0.001	6.91E-06	mg/L	1.0	200.8/3010A	a	3/4/20	BJ	200.8_200304B2	
7440-38-2	**ARSENIC**	0.0008	0.0005	2.18E-05	mg/L	1.0	200.8/3010A	a	3/4/20	BJ	200.8_200304B2	
7440-39-3	**BARIUM**	0.0828	0.001	1.49E-05	mg/L	1.0	200.8/3010A	a	3/4/20	BJ	200.8_200304B2	
7440-41-7	**BERYLLIUM**	0.000013 J	0.0003	6.76E-06	mg/L	1.0	200.8/3010A	a	3/4/20	BJ	200.8_200304B2	
7440-43-9	**CADMIUM**	0.00008 J	0.00025	1.13E-05	mg/L	1.0	200.8/3010A	a	3/4/20	BJ	200.8_200304B2	
7440-47-3	**CHROMIUM**	0.0009 J	0.00025	2.03E-05	mg/L	1.0	200.8/3010A	a	3/4/20	BJ	200.8_200304B2	
7440-50-8	**COPPER**	0.0062	0.002	2.76E-05	mg/L	1.0	200.8/3010A	a	3/4/20	BJ	200.8_200304B2	
7439-92-1	**LEAD**	0.0001 J	0.0005	6.66E-06	mg/L	1.0	200.8/3010A	a	3/4/20	BJ	200.8_200304B2	
7440-02-0	**NICKEL**	0.0048	0.0005	1.62E-05	mg/L	1.0	200.8/3010A	a	3/4/20	BJ	200.8_200304B2	
7782-49-2	**SELENIUM**	0.0006 J	0.001	2.66E-05	mg/L	1.0	200.8/3010A	a	3/4/20	BJ	200.8_200304B2	
7440-22-4	**SILVER**	0.000018 J	0.0002	1.17E-05	mg/L	1.0	200.8/3010A	a	3/4/20	BJ	200.8_200304B2	
7440-28-0	**THALLIUM**	0.000016 J	0.00036	7.06E-06	mg/L	1.0	200.8/3010A	a	3/4/20	BJ	200.8_200304B2	
7440-66-6	**ZINC**	0.0212	0.0025	0.00055	mg/L	1.0	200.8/3010A	a	3/4/20	BJ	200.8_200304B2	
7439-89-6	**IRON, Dissolved**	0.88	0.050	0.0012	mg/L	1.0	200.7/FILTER	a	3/2/20	BJ	200.7_200302A	
7439-96-5	**MANGANESE, Dissolved**	0.386	0.001	0.0002	mg/L	1.0	200.7/FILTER	a	3/2/20	BJ	200.7_200302A	
7440-36-0	**ANTIMONY, Dissolved**	0.0006 J	0.001	0.0001	mg/L	1.0	200.8/FILTER	a	3/3/20	AJW	200.8_200303A2	
7440-38-2	**ARSENIC, Dissolved**	0.0008	0.0005	5.30E-05	mg/L	1.0	200.8/FILTER	a	3/3/20	AJW	200.8_200303A2	
7440-39-3	**BARIUM, Dissolved**	0.0872	0.001	6.60E-05	mg/L	1.0	200.8/FILTER	a	3/3/20	AJW	200.8_200303A2	
7440-41-7	**BERYLLIUM, Dissolved**	ND	0.0003	1.00E-05	mg/L	1.0	200.8/FILTER	a	3/3/20	AJW	200.8_200303A2	
7440-43-9	**CADMIUM, Dissolved**	0.00004 J	0.00025	8.20E-06	mg/L	1.0	200.8/FILTER	a	3/3/20	AJW	200.8_200303A2	
7440-47-3	**CHROMIUM, Dissolved**	0.0003 J	0.001	0.00015	mg/L	1.0	200.8/FILTER	a	3/3/20	AJW	200.8_200303A2	

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D.F. - Dilution Factor

EDGE ANALYTICAL

Reference Number: **20-07137**
Report Date: 4/7/20

Data Report

7440-48-4	**COBALT, Dissolved**	0.0012	0.001	1.80E-05	mg/L	1.0	200.8/FILTER	a	3/3/20	AJW	200.8_200303A2
7440-50-8	**COPPER, Dissolved**	0.0050	0.002	0.00027	mg/L	1.0	200.8/FILTER	a	3/3/20	AJW	200.8_200303A2
7439-92-1	**LEAD, Dissolved**	ND	0.0005	1.60E-05	mg/L	1.0	200.8/FILTER	a	3/3/20	AJW	200.8_200303A2
7440-02-0	**NICKEL, Dissolved**	0.0033	0.0005	1.80E-05	mg/L	1.0	200.8/FILTER	a	3/3/20	AJW	200.8_200303A2
7782-49-2	**SELENIUM, Dissolved**	0.0003 J	0.001	0.00011	mg/L	1.0	200.8/FILTER	a	3/3/20	AJW	200.8_200303A2
7440-22-4	**SILVER, Dissolved**	ND	0.0002	0.00013	mg/L	1.0	200.8/FILTER	a	3/3/20	AJW	200.8_200303A2
7440-28-0	**THALLIUM, Dissolved**	ND	0.00036	1.30E-05	mg/L	1.0	200.8/FILTER	a	3/3/20	AJW	200.8_200303A2
7440-62-2	**VANADIUM, Dissolved**	0.0019	0.001	4.00E-05	mg/L	1.0	200.8/FILTER	a	3/3/20	AJW	200.8_200303A2
7440-66-6	**ZINC, Dissolved**	0.0184	0.0025	0.0001	mg/L	1.0	200.8/FILTER	a	3/3/20	AJW	200.8_200303A2
7439-97-6	**MERCURY, Dissolved**	ND	0.0002	5.30E-05	mg/L	1.0	245.1/FILTER	a	3/9/20	AJW	245.1_200309

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D.F. - Dilution Factor

ANALYTICAL

Reference Number: **20-07137**
Report Date: 4/7/20

Data Report

Sample Description: S-2 - South East
Lab Number: 14023 Sample Comment:
Sample Type:

Sample Date: 2/28/20 11:45 am
Collected By: Britt Pfaff-Dunton/Dale

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
7440-70-2	**CALCIUM**	49.2	0.500	0.009	mg/L	1.0	200.7	a	3/2/20	BJ	200.7_200302A	
7439-89-6	**IRON**	0.74	0.050	0.0012	mg/L	1.0	200.7	a	3/2/20	BJ	200.7_200302A	
7439-95-4	**MAGNESIUM**	12.9	0.500	0.001	mg/L	1.0	200.7	a	3/2/20	BJ	200.7_200302A	
7439-96-5	**MANGANESE**	0.039	0.001	0.0002	mg/L	1.0	200.7	a	3/2/20	BJ	200.7_200302A	
7440-09-7	**POTASSIUM**	6.3	1.0	0.1	mg/L	1.0	200.7	a	3/2/20	BJ	200.7_200302A	
7440-23-5	**SODIUM**	16.2	0.5	0.05	mg/L	1.0	200.7	a	3/2/20	BJ	200.7_200302A	
16887-00-6	**CHLORIDE**	15.5	0.1	0.05	mg/L	1.0	300.0	a	2/29/20	AJW	IC02_200228A	
14797-55-8	**NITRATE-N**	ND	0.100	0.011	mg/L	1.0	300.0	a	2/29/20	AJW	IC02_200228A	
14797-65-0	**NITRITE-N**	ND	0.10	0.01	mg/L	1.0	300.0	a	2/29/20	AJW	IC02_200228A	
14808-79-8	**SULFATE**	17.7	0.2	0.02	mg/L	1.0	300.0	a	2/29/20	AJW	IC02_200228A	
7664-41-7	**AMMONIA-N**	0.03	0.010	0.006	mg/L	1.0	350.1	a	3/4/20	BSP	350.1_200304	
7439-97-6	**MERCURY**	ND	0.0002	1.90E-05	mg/L	1.0	7470A	a	3/12/20	AJW	7470A_200312	
E-14506	**ALKALINITY**	236.0	10		mg CaCO3/L	10.0	SM2320 B	a	3/8/20	SRS	ALK_200308	
NA	**BICARBONATE**	230.3	20		mg CaCO3/L	4.0	SM2320 B	a	3/15/20	SRS	ALK_200315	
E-10173	**TOTAL DISSOLVED SOLIDS (TDS)**	306	10		mg/L	1.0	SM2540 C	a	3/4/20	AJW	TDS_200228	
E-10117	**CHEMICAL OXYGEN DEMAND**	36	20	9	mg/L	1.0	SM5220 D	a	3/4/20	BSP	COD_200304	
E-10195	**TOTAL ORGANIC CARBON**	12.85	0.15	0.076	mg/L	1.0	SM5310 B	a	3/1/20	BJ	TOC_200229A	
7440-36-0	**ANTIMONY**	0.0005 J	0.001	6.91E-06	mg/L	1.0	200.8/3010A	a	3/4/20	BJ	200.8_200304B2	
7440-38-2	**ARSENIC**	0.0007	0.0005	2.18E-05	mg/L	1.0	200.8/3010A	a	3/4/20	BJ	200.8_200304B2	
7440-39-3	**BARIUM**	0.0841	0.001	1.49E-05	mg/L	1.0	200.8/3010A	a	3/4/20	BJ	200.8_200304B2	
7440-41-7	**BERYLLIUM**	0.000019 J	0.0003	6.76E-06	mg/L	1.0	200.8/3010A	a	3/4/20	BJ	200.8_200304B2	
7440-43-9	**CADMIUM**	0.00017 J	0.0002[illegible]	1.13E-05	mg/L	1.0	200.8/3010A	a	3/4/20	BJ	200.8_200304B2	
7440-47-3	**CHROMIUM**	0.0008 J	0.0002[illegible]	2.03E-05	mg/L	1.0	200.8/3010A	a	3/4/20	BJ	200.8_200304B2	
7440-50-8	**COPPER**	0.0105	0.002	2.76E-05	mg/L	1.0	200.8/3010A	a	3/4/20	BJ	200.8_200304B2	
7439-92-1	**LEAD**	0.0008 J	0.0005	6.66E-06	mg/L	1.0	200.8/3010A	a	3/4/20	BJ	200.8_200304B2	
7440-02-0	**NICKEL**	0.0035	0.0005	1.62E-05	mg/L	1.0	200.8/3010A	a	3/4/20	BJ	200.8_200304B2	
7782-49-2	**SELENIUM**	0.0005 J	0.001	2.66E-05	mg/L	1.0	200.8/3010A	a	3/4/20	BJ	200.8_200304B2	
7440-22-4	**SILVER**	0.0001 J	0.0002	1.17E-05	mg/L	1.0	200.8/3010A	a	3/4/20	BJ	200.8_200304B2	
7440-28-0	**THALLIUM**	0.00002 J	0.00036	7.06E-06	mg/L	1.0	200.8/3010A	a	3/4/20	BJ	200.8_200304B2	
7440-66-6	**ZINC**	0.0488	0.0025	0.00055	mg/L	1.0	200.8/3010A	a	3/4/20	BJ	200.8_200304B2	
7439-89-6	**IRON, Dissolved**	0.28	0.050	0.0012	mg/L	1.0	200.7/FILTER	a	3/2/20	BJ	200.7_200302A	
7439-96-5	**MANGANESE, Dissolved**	0.052	0.001	0.0002	mg/L	1.0	200.7/FILTER	a	3/2/20	BJ	200.7_200302A	
7440-36-0	**ANTIMONY, Dissolved**	0.0005 J	0.001	0.0001	mg/L	1.0	200.8/FILTER	a	3/3/20	AJW	200.8_200303A2	
7440-38-2	**ARSENIC, Dissolved**	0.0006	0.0005	5.30E-05	mg/L	1.0	200.8/FILTER	a	3/3/20	AJW	200.8_200303A2	
7440-39-3	**BARIUM, Dissolved**	0.0902	0.001	6.60E-05	mg/L	1.0	200.8/FILTER	a	3/3/20	AJW	200.8_200303A2	
7440-41-7	**BERYLLIUM, Dissolved**	ND	0.0003	1.00E-05	mg/L	1.0	200.8/FILTER	a	3/3/20	AJW	200.8_200303A2	
7440-43-9	**CADMIUM, Dissolved**	0.000096 J	0.0002[illegible]	8.20E-06	mg/L	1.0	200.8/FILTER	a	3/3/20	AJW	200.8_200303A2	
7440-47-3	**CHROMIUM, Dissolved**	0.0002 J	0.001	0.00015	mg/L	1.0	200.8/FILTER	a	3/3/20	AJW	200.8_200303A2	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor

Reference Number: **20-07137**
Report Date: 4/7/20

Data Report

7440-48-4	**COBALT, Dissolved**	0.0002 J	0.001	1.80E-05	mg/L	1.0	200.8/FILTER	a	3/3/20	AJW	200.8_200303A2	
7440-50-8	**COPPER, Dissolved**	0.0073	0.002	0.00027	mg/L	1.0	200.8/FILTER	a	3/3/20	AJW	200.8_200303A2	
7439-92-1	**LEAD, Dissolved**	0.00027 J	0.0005	1.60E-05	mg/L	1.0	200.8/FILTER	a	3/3/20	AJW	200.8_200303A2	
7440-02-0	**NICKEL, Dissolved**	0.0028	0.0005	1.80E-05	mg/L	1.0	200.8/FILTER	a	3/3/20	AJW	200.8_200303A2	
7782-49-2	**SELENIUM, Dissolved**	0.0003 J	0.001	0.00011	mg/L	1.0	200.8/FILTER	a	3/3/20	AJW	200.8_200303A2	
7440-22-4	**SILVER, Dissolved**	ND	0.0002	0.00013	mg/L	1.0	200.8/FILTER	a	3/3/20	AJW	200.8_200303A2	
7440-28-0	**THALLIUM, Dissolved**	ND	0.00036	1.30E-05	mg/L	1.0	200.8/FILTER	a	3/3/20	AJW	200.8_200303A2	
7440-62-2	**VANADIUM, Dissolved**	0.0003 J	0.001	4.00E-05	mg/L	1.0	200.8/FILTER	a	3/3/20	AJW	200.8_200303A2	
7440-66-6	**ZINC, Dissolved**	0.0366	0.0025	0.0001	mg/L	1.0	200.8/FILTER	a	3/3/20	AJW	200.8_200303A2	
7439-97-6	**MERCURY, Dissolved**	ND	0.0003	7.95E-05	mg/L	1.5	245.1/FILTER	a	3/9/20	AJW	245.1_200309	below MDL

Notes:

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D.F. - Dilution Factor

EDGE ANALYTICAL

Burlington, WA *Corporate Laboratory (a)*
1620 S Walnut St - Burlington, WA 98233 - **800.755.9295** • 360.757.1400

Bellingham, WA *Microbiology (b)*
805 Orchard Dr Ste 4 - Bellingham, WA 98225 - 360.715.1212

Portland, OR *Microbiology/Chemistry (c)*
9150 SW Pioneer Ct Ste W - Wilsonville, OR 97070 - 503.682.7802

Corvallis, OR *Microbiology/Chemistry (d)*
1100 NE Circle Blvd, Ste 130 - Corvallis, OR 97330 - 541.753.4946

Bend, OR *Microbiology (e)*
20332 Empire Blvd Ste 4 - Bend, OR 97701 - 541.639.8425

Hydrocarbon Data Report

Client Name: Skagit County Public Health
700 South Second Street, Room 301
Mount Vernon, WA 98273

Reference Number: **20-07137**
Project: A Avenue
Report Date: 4/7/20
Date Received: 2/28/20
Approved By: pdm
Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

Sample Description: S-1 - North West
Lab Number: 14021
Date Analyzed: 3/12/20
Sample Date: 2/28/20 10:30
Collected By: Britt Pfaff-Dunton/Dale Patrick
Analyzed By: HY

Parameter	Result	Flag	DF	Cleanup Level	PQL	MDL	Units	Method	Lab	Batch	Comment
NWTPH-Gx											
GASOLINE (C8 - C12)	**ND**		1	1	0.10		mg/L	8260C/5030B	a	8260W_200312	

Sample Description: S-1-D - North West
Lab Number: 14022
Date Analyzed: 3/12/20
Sample Date: 2/28/20 10:30
Collected By: Britt Pfaff-Dunton/Dale Patrick
Analyzed By: HY

Parameter	Result	Flag	DF	Cleanup Level	PQL	MDL	Units	Method	Lab	Batch	Comment
NWTPH-Gx											
GASOLINE (C8 - C12)	**ND**		1	1	0.10		mg/L	8260C/5030B	a	8260W_200312	

Sample Description: S-2 - South East
Lab Number: 14023
Date Analyzed: 3/12/20
Sample Date: 2/28/20 11:45
Collected By: Britt Pfaff-Dunton/Dale Patrick
Analyzed By: HY

Parameter	Result	Flag	DF	Cleanup Level	PQL	MDL	Units	Method	Lab	Batch	Comment
NWTPH-Gx											
GASOLINE (C8 - C12)	**ND**		1	1	0.10		mg/L	8260C/5030B	a	8260W_200312	

Notation:
ND - A result of "ND" indicates that the compound was not detected above the Lab's Method Reporting Limit - MRL.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor
Cleanup Level - The regulatory limit for Method A Cleanup Levels (MTCA, Chapter173-340 WAC) contaminants in the specified matrix. Amended Feb 12, 2001
The Cleanup level for Gasoline Range Organics (GRO) is 100 mg/Kg for gas mixtures without benzene and when the total ethylbenzene, toluene and xylenes are less than 1% of the gasoline concentration. The Cleanup level for GRO is 30 mg/Kg for all other mixtures.

If you have any questions concerning this report contact us at the above phone number.
Form: cHCID.rpt

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Hydrocarbon Data Report

Client Name: Skagit County Public Health
700 South Second Street, Room 301
Mount Vernon, WA 98273

Reference Number: **20-07137**
Project: A Avenue
Report Date: 4/7/20
Date Received: 2/28/20
Approved By: pdm
Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

Sample Description: S-1 - North West
Lab Number: 14021
Date Analyzed: 3/11/20
Sample Date: 2/28/20 10:30
Collected By: Britt Pfaff-Dunton/Dale Patrick
Analyzed By: HY

Parameter	Result	Flag	DF	Cleanup Level	PQL	MDL	Units	Method	Lab	Batch	Comment
NWTPH-Dx											
DIESEL (C12 - C24)	**ND**		1	0.5	0.1	0.07	mg/L	NWTPH-Dx/3510C	a	DXW_200310	
HEAVIER OILS (>C24)	**ND**		1	0.5	0.1		mg/L	NWTPH-Dx/3510C	a	DXW_200310	

Sample Description: S-1-D - North West
Lab Number: 14022
Date Analyzed: 3/11/20
Sample Date: 2/28/20 10:30
Collected By: Britt Pfaff-Dunton/Dale Patrick
Analyzed By: HY

Parameter	Result	Flag	DF	Cleanup Level	PQL	MDL	Units	Method	Lab	Batch	Comment
NWTPH-Dx											
DIESEL (C12 - C24)	**0.21**		1	0.5	0.1	0.07	mg/L	NWTPH-Dx/3510C	a	DXW_200310	
HEAVIER OILS (>C24)	**0.15**		1	0.5	0.1		mg/L	NWTPH-Dx/3510C	a	DXW_200310	

Sample Description: S-2 - South East
Lab Number: 14023
Date Analyzed: 3/11/20
Sample Date: 2/28/20 11:45
Collected By: Britt Pfaff-Dunton/Dale Patrick
Analyzed By: HY

Parameter	Result	Flag	DF	Cleanup Level	PQL	MDL	Units	Method	Lab	Batch	Comment
NWTPH-Dx											
DIESEL (C12 - C24)	**ND**		1	0.5	0.1	0.07	mg/L	NWTPH-Dx/3510C	a	DXW_200310	
HEAVIER OILS (>C24)	**ND**		1	0.5	0.1		mg/L	NWTPH-Dx/3510C	a	DXW_200310	

Notation:
ND - A result of "ND" indicates that the compound was not detected above the Lab's Method Reporting Limit - MRL.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor
Cleanup Level - The regulatory limit for Method A Cleanup Levels (MTCA, Chapter173-340 WAC) contaminants in the specified matrix. Amended Feb 12, 2001
The Cleanup level for Gasoline Range Organics (GRO) is 100 mg/Kg for gas mixtures without benzene and when the total ethylbenzene, toluene and xylenes are less than 1% of the gasoline concentration. The Cleanup level for GRO is 30 mg/Kg for all other mixtures.

If you have any questions concerning this report contact us at the above phone number.
Form: cHCID.rpt

SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Calibration Check

Reference Number: **20-07137**
Report Date: 04/07/20

Batch		Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
200.7_200302A	2	IRON, Dissolved	1.07	1	mg/L	200.7	107	90-110		CAL	
	2	MAGNESIUM	11	11	mg/L	200.7	100	90-110		CAL	
	2	MANGANESE, Dissolved	1.03	1	mg/L	200.7	103	90-110		CAL	
	2	SODIUM	10.6	11	mg/L	200.7	96	90-110		CAL	
	2	IRON	1.07	1	mg/L	200.7	107	90-110		CAL	
	2	MANGANESE	1.03	1	mg/L	200.7	103	90-110		CAL	
	2	CALCIUM	10.7	11	mg/L	200.7	97	90-110		CAL	
	2	POTASSIUM	9.6	10	mg/L	200.7	96	90-110		CAL	
200.8_200303A2	0	ARSENIC, Dissolved	0.00101	0.001	mg/L	200.8	101	80-120		CAL	
	0	BARIUM, Dissolved	0.00103	0.001	mg/L	200.8	103	80-120		CAL	
	0	CADMIUM, Dissolved	0.00107	0.001	mg/L	200.8	107	80-120		CAL	
	0	CHROMIUM, Dissolved	0.00101	0.001	mg/L	200.8	101	80-120		CAL	
	0	COBALT, Dissolved	0.00108	0.001	mg/L	200.8	108	80-120		CAL	
	0	COPPER, Dissolved	0.001	0.001	mg/L	200.8	100	80-120		CAL	
	0	LEAD, Dissolved	0.00105	0.001	mg/L	200.8	105	80-120		CAL	
	0	NICKEL, Dissolved	0.00105	0.001	mg/L	200.8	105	80-120		CAL	
	0	VANADIUM, Dissolved	0.00097	0.001	mg/L	200.8	97	80-120		CAL	
	0	ZINC, Dissolved	0.00104	0.001	mg/L	200.8	104	80-120		CAL	
	0	ANTIMONY, Dissolved	0.00103	0.001	mg/L	200.8	103	80-120		CAL	
	0	BERYLLIUM, Dissolved	0.00103	0.001	mg/L	200.8	103	80-120		CAL	
	0	SELENIUM, Dissolved	0.00101	0.001	mg/L	200.8	101	80-120		CAL	
	0	SILVER, Dissolved	0.00109	0.001	mg/L	200.8	109	80-120		CAL	
	0	THALLIUM, Dissolved	0.00108	0.001	mg/L	200.8	108	80-120		CAL	
200.8_200304B2	0	ANTIMONY	0.001	0.001	mg/L	200.8	100	80-120		CAL	
	0	ARSENIC	0.00105	0.001	mg/L	200.8	105	80-120		CAL	
	0	BERYLLIUM	0.00101	0.001	mg/L	200.8	101	80-120		CAL	
	0	CADMIUM	0.00103	0.001	mg/L	200.8	103	80-120		CAL	
	0	CHROMIUM	0.00101	0.001	mg/L	200.8	101	80-120		CAL	
	0	COPPER	0.00099	0.001	mg/L	200.8	99	80-120		CAL	
	0	LEAD	0.001	0.001	mg/L	200.8	100	80-120		CAL	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Calibration Check

Reference Number: **20-07137**
Report Date: 04/07/20

Batch		Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
200.8_200304B2	0	NICKEL	0.00103	0.001	mg/L	200.8	103	80-120		CAL	
	0	SELENIUM	0.00102	0.001	mg/L	200.8	102	80-120		CAL	
	0	SILVER	0.00106	0.001	mg/L	200.8	106	80-120		CAL	
	0	THALLIUM	0.00099	0.001	mg/L	200.8	99	80-120		CAL	
	0	ZINC	0.00105	0.001	mg/L	200.8	105	80-120		CAL	
	0	BARIUM	0.001	0.001	mg/L	200.8	100	80-120		CAL	
245.1_200309	0	MERCURY, Dissolved	0.002	0.002	mg/L	245.1	100	95-105		CAL	
350.1_200304	0	AMMONIA-N	2.57	2.50	mg/L	350.1	103	90-110		CAL	
7470A_200312	0	MERCURY	0.002	0.002	mg/L	7470A	100	95-105		CAL	
IC02_200228A	0	CHLORIDE	1	1	mg/L	300.0	100	90-110		CAL	
	0	SULFATE	2.1	2	mg/L	300.0	105	90-110		CAL	
	0	NITRATE-N	1.07	1	mg/L	300.0	107	90-110		CAL	
	0	NITRITE-N	1.04	1	mg/L	300.0	104	90-110		CAL	
TOC_200229A	0	TOTAL ORGANIC CARBON	2.38	2.5	mg/L	SM5310 B	95	90-110		CAL	

*Notation:

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ANALYTICAL

SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **20-07137**
Report Date: 04/07/20

Batch		Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
200.7_200302A	1	IRON, Dissolved	0.53	0.5	mg/L	200.7	106	85-115		LFB	
	1	MAGNESIUM	13.2	13	mg/L	200.7	102	85-115		LFB	
	1	MANGANESE, Dissolved	0.52	0.5	mg/L	200.7	104	85-115		LFB	
	1	SODIUM	13	13	mg/L	200.7	100	85-115		LFB	
	1	IRON	0.53	0.5	mg/L	200.7	106	85-115		LFB	
	1	MANGANESE	0.52	0.5	mg/L	200.7	104	85-115		LFB	
	1	CALCIUM	12.7	13	mg/L	200.7	98	85-115		LFB	
	1	POTASSIUM	16.4	17.5	mg/L	200.7	94	85-115		LFB	
200.8_200304B2	0	ANTIMONY	0.502	0.5	mg/L	200.8	100	85-115		LFB	
	0	ARSENIC	0.549	0.5	mg/L	200.8	110	85-115		LFB	
	0	BERYLLIUM	0.543	0.5	mg/L	200.8	109	85-115		LFB	
	0	CADMIUM	0.558	0.5	mg/L	200.8	112	85-115		LFB	
	0	CHROMIUM	0.535	0.5	mg/L	200.8	107	85-115		LFB	
	0	COPPER	0.522	0.5	mg/L	200.8	104	85-115		LFB	
	0	LEAD	0.514	0.5	mg/L	200.8	103	85-115		LFB	
	0	NICKEL	0.545	0.5	mg/L	200.8	109	85-115		LFB	
	0	SELENIUM	0.0248	0.025	mg/L	200.8	99	85-115		LFB	
	0	SILVER	0.275	0.25	mg/L	200.8	110	85-115		LFB	
	0	THALLIUM	0.506	0.5	mg/L	200.8	101	85-115		LFB	
	0	ZINC	0.57	0.5	mg/L	200.8	114	85-115		LFB	
	0	BARIUM	0.526	0.5	mg/L	200.8	105	85-115		LFB	
245.1_200309	0	MERCURY, Dissolved	0.00168	0.00167	mg/L	245.1	101	85-115		LFB	
7470A_200312	0	MERCURY	0.00162	0.00167	mg/L	7470A	97	70-130		LFB	
	1	MERCURY	0.00164	0.00167	mg/L	7470A	98	70-130		LFB	TCLP
	2	MERCURY	0.00161	0.00167	mg/L	7470A	96	70-130		LFB	20+ batch
8260SIM_200313	0	1,2 - DIBROMOETHANE (EDB SIM)	0.094	0.1	ug/L	8260SIM	94	80-120		LFB	SIMS ANALYSIS
	0	1,4-DIOXANE (SIM)	11.5	10	ug/L	8260SIM	115	80-120		LFB	SIMS ANALYSIS
	0	ACRYLONITRILE (SIM)	0.083	0.1	ug/L	8260SIM	83	80-120		LFB	SIMS ANALYSIS

*Notation:

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NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **20-07137**
Report Date: 04/07/20

Batch		Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
8260SIM_200313	0	VINYL CHLORIDE (SIM)	0.083	0.1	ug/L	8260SIM	83	80-120		LFB	SIMS ANALYSIS
8260W_200312	0	1,1 - DICHLOROETHANE	4.4	4	ug/L	8260C	110	80-120		LFB	
	0	1,1 - DICHLOROETHYLENE	4.6	4	ug/L	8260C	115	80-120		LFB	
	0	1,1 - DICHLOROPROPENE	4.7	4	ug/L	8260C	118	80-120		LFB	
	0	1,1,1 - TRICHLOROETHANE	4.6	4	ug/L	8260C	115	80-120		LFB	
	0	1,1,1,2 - TETRACHLOROETHANE	4.1	4	ug/L	8260C	103	80-120		LFB	
	0	1,1,2 - TRICHLOROETHANE	4.3	4	ug/L	8260C	108	80-120		LFB	
	0	1,1,2 - TRICHLOROTRIFLUOROETHANE	9.4	10	ug/L	8260C	94	80-120		LFB	
	0	1,1,2,2 - TETRACHLOROETHANE	4.5	4	ug/L	8260C	113	80-120		LFB	
	0	1,2 - DICHLOROBENZENE (ortho)	4.4	4	ug/L	8260C	110	80-120		LFB	
	0	1,2 - DICHLOROETHANE	4.3	4	ug/L	8260C	108	80-120		LFB	
	0	1,2 - DICHLOROPROPANE	4.3	4	ug/L	8260C	108	80-120		LFB	
	0	1,2,3 - TRICHLOROBENZENE	4.2	4	ug/L	8260C	105	80-120		LFB	
	0	1,2,3 - TRICHLOROPROPANE	4.3	4	ug/L	8260C	108	80-120		LFB	
	0	1,2,4 - TRICHLOROBENZENE	4.4	4	ug/L	8260C	110	80-120		LFB	
	0	1,2,4 - TRIMETHYLBENZENE	4.5	4	ug/L	8260C	113	80-120		LFB	
	0	1,2-DIBROMO-3-CHLOROPROPANE	4.4	4	ug/L	8260C	110	80-120		LFB	
	0	1,3 - DICHLOROBENZENE (meta)	4.4	4	ug/L	8260C	110	80-120		LFB	
	0	1,3 - DICHLOROPROPANE	4.2	4	ug/L	8260C	105	80-120		LFB	
	0	1,3,5 - TRIMETHYLBENZENE	4.5	4	ug/L	8260C	113	80-120		LFB	
	0	1,4 - DICHLOROBENZENE (para)	4.3	4	ug/L	8260C	108	80-120		LFB	
	0	1-CHLOROBUTANE	11.0	10	ug/L	8260C	110	80-120		LFB	
	0	2,2 - DICHLOROPROPANE	4.8	4	ug/L	8260C	120	80-120		LFB	
	0	2-BUTANONE (MEK)	9.0	10	ug/L	8260C	90	80-120		LFB	
	0	2-CHLOROETHYL VINYL ETHER	12.0	10	ug/L	8260C	120	80-120		LFB	
	0	2-HEXANONE	8.6	10	ug/L	8260C	86	80-120		LFB	
	0	2-NITROPROPANE	9.6	10	ug/L	8260C	96	80-120		LFB	
	0	4-METHYL-2-PENTANONE	8.6	10	ug/L	8260C	86	80-120		LFB	
	0	ACETONE	8.4	10	ug/L	8260C	84	80-120		LFB	
	0	ACROLEIN	9.8	10	ug/L	8260C	98	80-120		LFB	
	0	ACRYLONITRILE	19.9	20	ug/L	8260C	100	80-120		LFB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **20-07137**
Report Date: 04/07/20

Batch		Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
8260W_200312	0	ALLYL CHLORIDE	10.7	10	ug/L	8260C	107	80-120		LFB	
	0	BENZENE	4.5	4	ug/L	8260C	113	80-120		LFB	
	0	BROMOBENZENE	4.4	4	ug/L	8260C	110	80-120		LFB	
	0	BROMOCHLOROMETHANE	4.1	4	ug/L	8260C	103	80-120		LFB	
	0	BROMODICHLOROMETHANE	4.1	4	ug/L	8260C	103	80-120		LFB	
	0	BROMOFORM	4.2	4	ug/L	8260C	105	80-120		LFB	
	0	BROMOMETHANE	3.0	4	ug/L	8260C	75	80-120	LR	LFB	
	0	CARBON DISULFIDE	10.1	10	ug/L	8260C	101	80-120		LFB	
	0	CARBON TETRACHLORIDE	4.8	4	ug/L	8260C	120	80-120		LFB	
	0	CHLOROBENZENE	4.2	4	ug/L	8260C	105	80-120		LFB	
	0	CHLORODIFLUOROMETHANE (FREON-22)	9.2	10	ug/L	8260C	92	80-120		LFB	
	0	CHLOROETHANE	4.5	4	ug/L	8260C	113	80-120		LFB	
	0	CHLOROFORM	4.1	4	ug/L	8260C	103	80-120		LFB	
	0	CHLOROMETHANE	4.2	4	ug/L	8260C	105	80-120		LFB	
	0	CIS - 1,2 - DICHLOROETHENE	4.3	4	ug/L	8260C	108	80-120		LFB	
	0	CIS - 1,3 - DICHLOROPROPENE	4.3	4	ug/L	8260C	108	80-120		LFB	
	0	DIBROMOCHLOROMETHANE	4.3	4	ug/L	8260C	108	80-120		LFB	
	0	DIBROMOMETHANE	4.2	4	ug/L	8260C	105	80-120		LFB	
	0	DICHLORODIFLUOROMETHANE	3.1	4	ug/L	8260C	78	80-120	LR	LFB	
	0	DICHLOROFLUOROMETHANE (FREON-21)	9.5	10	ug/L	8260C	95	80-120		LFB	
	0	DIETHYL ETHER	9.9	10	ug/L	8260C	99	80-120		LFB	
	0	ETHYL METHACRYLATE	9.9	10	ug/L	8260C	99	80-120		LFB	
	0	ETHYLBENZENE	4.6	4	ug/L	8260C	115	80-120		LFB	
	0	HEXACHLOROBUTADIENE	4.4	4	ug/L	8260C	110	80-120		LFB	
	0	HEXACHLOROETHANE	10.3	10	ug/L	8260C	103	80-120		LFB	
	0	ISOPROPYLBENZENE	4.6	4	ug/L	8260C	115	80-120		LFB	
	0	M,P- XYLENE	9.1	8	ug/L	8260C	114	80-120		LFB	
	0	METHACRYLONITRILE	10.3	10	ug/L	8260C	103	80-120		LFB	
	0	METHYL ACRYLATE	10.5	10	ug/L	8260C	105	80-120		LFB	
	0	METHYL IODIDE	11.4	10	ug/L	8260C	114	80-120		LFB	
	0	METHYL METHACRYLATE	9.7	10	ug/L	8260C	97	80-120		LFB	
	0	METHYL TERT-BUTYL ETHER	4.4	4	ug/L	8260C	110	80-120		LFB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **20-07137**
Report Date: 04/07/20

Batch		Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
8260W_200312	0	METHYLENE CHLORIDE	4.1	4	ug/L	8260C	103	80-120		LFB	
	0	N - BUTYLBENZENE	4.4	4	ug/L	8260C	110	80-120		LFB	
	0	N - PROPYLBENZENE	4.6	4	ug/L	8260C	115	80-120		LFB	
	0	NAPHTHALENE	4.5	4	ug/L	8260C	113	80-120		LFB	
	0	O - CHLOROTOLUENE	4.4	4	ug/L	8260C	110	80-120		LFB	
	0	O - XYLENE	4.4	4	ug/L	8260C	110	80-120		LFB	
	0	P - CHLOROTOLUENE	4.4	4	ug/L	8260C	110	80-120		LFB	
	0	P - ISOPROPYLTOLUENE	4.5	4	ug/L	8260C	113	80-120		LFB	
	0	PENTACHLOROETHANE	10.9	10	ug/L	8260C	109	80-120		LFB	
	0	SEC - BUTYLBENZENE	4.4	4	ug/L	8260C	110	80-120		LFB	
	0	STYRENE	4.3	4	ug/L	8260C	108	80-120		LFB	
	0	TERT - BUTYLBENZENE	4.6	4	ug/L	8260C	115	80-120		LFB	
	0	TETRACHLOROETHYLENE	4.7	4	ug/L	8260C	118	80-120		LFB	
	0	TETRAHYDROFURAN	9.7	10	ug/L	8260C	97	80-120		LFB	
	0	TOLUENE	4.5	4	ug/L	8260C	113	80-120		LFB	
	0	TRANS - 1,2 - DICHLOROETHENE	4.5	4	ug/L	8260C	113	80-120		LFB	
	0	TRANS - 1,3 - DICHLOROPROPENE	4.2	4	ug/L	8260C	105	80-120		LFB	
	0	TRANS - 1,4 - DICHLORO-2-BUTENE	10.6	10	ug/L	8260C	106	80-120		LFB	
	0	TRICHLOROETHENE	4.5	4	ug/L	8260C	113	80-120		LFB	
	0	TRICHLOROFLUOROMETHANE	4.4	4	ug/L	8260C	110	80-120		LFB	
	0	VINYL ACETATE	9.4	10	ug/L	8260C	94	80-120		LFB	
	0	VINYL CHLORIDE	4.5	4	ug/L	8260C	113	80-120		LFB	
	0	GASOLINE (C8 - C12)	0.255	0.25	mg/L	8260C	102	80-120		LFB	
ALK_200308	0	ALKALINITY	102.2	100.0	mg CaCO3/l	SM2320 B	102	90-110		LFB	
	0	ALKALINITY	99.5	100.0	mg CaCO3/l	SM2320 B	100	90-110		LFB	
COD_200304	0	CHEMICAL OXYGEN DEMAND	49	50	mg/L	SM5220 D	98	90-110		LFB	
DXW_200310	0	DIESEL (C12 - C24)	5.68	5	mg/L	NWTPH-Dx	114	70-130		LFB	
PAH_W200306	0	ACENAPHTHYLENE	11.0	10	ug/L	8270D	110	33-145		LFB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **20-07137**
Report Date: 04/07/20

Batch		Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
PAH_W200306	0	ACENAPTHENE	11.0	10	ug/L	8270D	110	47-145		LFB	
	0	ANTHRACENE	10.8	10	ug/L	8270D	108	27-133		LFB	
	0	BENZO[G,H,I]PERYLENE	12.5	10	ug/L	8270D	125	1-219		LFB	
	0	FLUORANTHENE	11.5	10	ug/L	8270D	115	26-137		LFB	
	0	FLUORENE	11.6	10	ug/L	8270D	116	59-121		LFB	
	0	NAPHTHALENE	10.6	10	ug/L	8270D	106	21-133		LFB	
	0	PHENANTHRENE	11.1	10	ug/L	8270D	111	54-120		LFB	
	0	PYRENE	11.3	10	ug/L	8270D	113	52-120		LFB	
	0	BENZ[A]ANTHRACENE	10.0	10	ug/L	8270D	100	33-143		LFB	
	0	BENZO[A]PYRENE	10.8	10	ug/L	8270D	108	17-163		LFB	
	0	BENZO[B]FLUORANTHENE	12.9	10	ug/L	8270D	129	24-159		LFB	
	0	BENZO[K]FLUORANTHENE	12.5	10	ug/L	8270D	125	11-162		LFB	
	0	CHRYSENE	5.7	10	ug/L	8270D	57	17-168		LFB	
	0	DIBENZ[A,H]ANTHRACENE	6.1	10	ug/L	8270D	61	1-227		LFB	
	0	INDENO[1,2,3,C,D]PYRENE	11.8	10	ug/L	8270D	118	1-171		LFB	
TOC_200229A	0	TOTAL ORGANIC CARBON	1.09	1	mg/L	SM5310 B	109	90-110		LFB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Low-Level Lab Fortified Blank

Reference Number: **20-07137**
Report Date: 04/07/20

Batch		Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
8260SIM_200313	0	1,2 - DIBROMOETHANE (EDB SIM)	0.012	0.01	ug/L	8260SIM	120	50-150		LLFB	SIMS ANALYSIS
	0	1,4-DIOXANE (SIM)	2.7	5	ug/L	8260SIM	54	50-150		LLFB	SIMS ANALYSIS
	0	VINYL CHLORIDE (SIM)	0.009	0.01	ug/L	8260SIM	90	50-150		LLFB	SIMS ANALYSIS

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Reagent Blank

Reference Number: **20-07137**
Report Date: 04/07/20

Batch		Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
200.7_200302A	0	IRON, Dissolved	ND		mg/L	200.7		0-0		LRB	
	0	MAGNESIUM	ND		mg/L	200.7		0-0		LRB	
	0	MANGANESE, Dissolved	ND		mg/L	200.7		0-0		LRB	
	0	SODIUM	ND		mg/L	200.7		0-0		LRB	
	0	IRON	ND		mg/L	200.7		0-0		LRB	
	0	MANGANESE	ND		mg/L	200.7		0-0		LRB	
	0	CALCIUM	ND		mg/L	200.7		0-0		LRB	
	0	POTASSIUM	ND		mg/L	200.7		0-0		LRB	
200.8_200303A2	0	ARSENIC, Dissolved	ND		mg/L	200.8		0-0		LRB	
	0	BARIUM, Dissolved	ND		mg/L	200.8		0-0		LRB	
	0	CADMIUM, Dissolved	ND		mg/L	200.8		0-0		LRB	
	0	CHROMIUM, Dissolved	ND		mg/L	200.8		0-0		LRB	
	0	COBALT, Dissolved	ND		mg/L	200.8		0-0		LRB	
	0	COPPER, Dissolved	ND		mg/L	200.8		0-0		LRB	
	0	LEAD, Dissolved	ND		mg/L	200.8		0-0		LRB	
	0	NICKEL, Dissolved	ND		mg/L	200.8		0-0		LRB	
	0	VANADIUM, Dissolved	ND		mg/L	200.8		0-0		LRB	
	0	ZINC, Dissolved	ND		mg/L	200.8		0-0		LRB	
	0	ANTIMONY, Dissolved	ND		mg/L	200.8		0-0		LRB	
	0	BERYLLIUM, Dissolved	ND		mg/L	200.8		0-0		LRB	
	0	SELENIUM, Dissolved	ND		mg/L	200.8		0-0		LRB	
	0	SILVER, Dissolved	ND		mg/L	200.8		0-0		LRB	
	0	THALLIUM, Dissolved	ND		mg/L	200.8		0-0		LRB	
200.8_200304B2	0	ANTIMONY	ND		mg/L	200.8		0-0		LRB	
	0	ARSENIC	ND		mg/L	200.8		0-0		LRB	
	0	BERYLLIUM	ND		mg/L	200.8		0-0		LRB	
	0	CADMIUM	ND		mg/L	200.8		0-0		LRB	
	0	CHROMIUM	ND		mg/L	200.8		0-0		LRB	
	0	COPPER	ND		mg/L	200.8		0-0		LRB	
	0	LEAD	ND		mg/L	200.8		0-0		LRB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Reagent Blank

Reference Number: **20-07137**
Report Date: 04/07/20

Batch		Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
200.8_200304B2	0	NICKEL	ND		mg/L	200.8		0-0		LRB	
	0	SELENIUM	ND		mg/L	200.8		0-0		LRB	
	0	SILVER	ND		mg/L	200.8		0-0		LRB	
	0	THALLIUM	ND		mg/L	200.8		0-0		LRB	
	0	ZINC	ND		mg/L	200.8		0-0		LRB	
	0	BARIUM	ND		mg/L	200.8		0-0		LRB	
245.1_200309	0	MERCURY, Dissolved	ND		mg/L	245.1		0-0		LRB	
350.1_200304	0	AMMONIA-N	ND		mg/L	350.1		0-0		LRB	
7470A_200312	0	MERCURY	ND		mg/L	7470A		0-0		LRB	
	1	MERCURY	ND		mg/L	7470A		0-0		LRB	TCLP
	2	MERCURY	ND		mg/L	7470A		0-0		LRB	20+ batch
ALK_200308	0	ALKALINITY	ND		mg CaCO3/l	SM2320 B		0-1		LRB	
ALK_200315	0	BICARBONATE	ND		mg CaCO3/l	SM2320 B		0-1		LRB	
IC02_200228A	0	CHLORIDE	ND		mg/L	300.0		0-0		LRB	
	0	SULFATE	ND		mg/L	300.0		0-0		LRB	
	0	NITRATE-N	ND		mg/L	300.0		0-0		LRB	
	0	NITRITE-N	ND		mg/L	300.0		0-0		LRB	
TOC_200229A	0	TOTAL ORGANIC CARBON	ND		mg/L	SM5310 B		0-0		LRB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **20-07137**
Report Date: 04/07/20

Batch		Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
200.7_200302A	0	IRON, Dissolved	ND		mg/L	200.7		0-0		MB	
	0	MAGNESIUM	ND		mg/L	200.7		0-0		MB	
	0	MANGANESE, Dissolved	ND		mg/L	200.7		0-0		MB	
	0	SODIUM	ND		mg/L	200.7		0-0		MB	
	0	IRON	ND		mg/L	200.7		0-0		MB	
	0	MANGANESE	ND		mg/L	200.7		0-0		MB	
	0	CALCIUM	ND		mg/L	200.7		0-0		MB	
	0	POTASSIUM	ND		mg/L	200.7		0-0		MB	
200.8_200304B2	0	ANTIMONY	0.00004		mg/L	200.8		0-0		MB	
	0	ARSENIC	0.0001		mg/L	200.8		0-0		MB	
	0	BERYLLIUM	ND		mg/L	200.8		0-0		MB	
	0	CADMIUM	ND		mg/L	200.8		0-0		MB	
	0	CHROMIUM	0.0006		mg/L	200.8		0-0		MB	
	0	COPPER	0.0001		mg/L	200.8		0-0		MB	
	0	LEAD	0.00004		mg/L	200.8		0-0		MB	
	0	NICKEL	0.0001		mg/L	200.8		0-0		MB	
	0	SELENIUM	ND		mg/L	200.8		0-0		MB	
	0	SILVER	ND		mg/L	200.8		0-0		MB	
	0	THALLIUM	0.00008		mg/L	200.8		0-0		MB	
	0	ZINC	0.0006		mg/L	200.8		0-0		MB	
	0	BARIUM	0.00006		mg/L	200.8		0-0		MB	
350.1_200304	0	AMMONIA-N	ND		mg/L	350.1		0-0		MB	
8260SIM_200313	0	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	8260SIM		0-0		MB	
	0	1,4-DIOXANE (SIM)	ND		ug/L	8260SIM		0-0		MB	
	0	ACRYLONITRILE (SIM)	ND		ug/L	8260SIM		0-0		MB	
	0	VINYL CHLORIDE (SIM)	ND		ug/L	8260SIM		0-0		MB	
8260W_200312	0	1,1 - DICHLOROETHANE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	1,1 - DICHLOROETHYLENE	ND		ug/L	8260C		0-0		MB	TB 20-07137

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **20-07137**
Report Date: 04/07/20

Batch		Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
8260W_200312	0	1,1 - DICHLOROPROPENE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	1,1,1 - TRICHLOROETHANE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	1,1,2 - TRICHLOROETHANE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	1,1,2 - TRICHLOROTRIFLUOROETHANE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	1,2 - DICHLOROETHANE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	1,2 - DICHLOROPROPANE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	1,2,3 - TRICHLOROBENZENE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	1,2,3 - TRICHLOROPROPANE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	1,2,4 - TRICHLOROBENZENE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	1,2,4 - TRIMETHYLBENZENE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	1,3 - DICHLOROBENZENE (meta)	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	1,3 - DICHLOROPROPANE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	1,3,5 - TRIMETHYLBENZENE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	1,4 - DICHLOROBENZENE (para)	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	1-CHLOROBUTANE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	2,2 - DICHLOROPROPANE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	2-BUTANONE (MEK)	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	2-CHLOROETHYL VINYL ETHER	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	2-HEXANONE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	2-NITROPROPANE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	4-METHYL-2-PENTANONE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	ACETONE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	ACROLEIN	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	ACRYLONITRILE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	ALLYL CHLORIDE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	BENZENE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	BROMOBENZENE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	BROMOCHLOROMETHANE	ND		ug/L	8260C		0-0		MB	TB 20-07137

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **20-07137**
Report Date: 04/07/20

Batch		Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
8260W_200312	0	BROMODICHLOROMETHANE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	BROMOFORM	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	BROMOMETHANE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	CARBON DISULFIDE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	CARBON TETRACHLORIDE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	CHLOROBENZENE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	CHLORODIFLUOROMETHANE (FREON-22)	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	CHLOROETHANE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	CHLOROFORM	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	CHLOROMETHANE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	DIBROMOCHLOROMETHANE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	DIBROMOMETHANE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	DICHLORODIFLUOROMETHANE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	DICHLOROFLUOROMETHANE (FREON-21)	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	DIETHYL ETHER	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	ETHYL METHACRYLATE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	ETHYLBENZENE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	HEXACHLOROBUTADIENE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	HEXACHLOROETHANE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	ISOPROPYLBENZENE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	M,P- XYLENE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	METHACRYLONITRILE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	METHYL ACRYLATE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	METHYL IODIDE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	METHYL METHACRYLATE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	METHYL TERT-BUTYL ETHER	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	METHYLENE CHLORIDE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	N - BUTYLBENZENE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	N - PROPYLBENZENE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	NAPHTHALENE	ND		ug/L	8260C		0-0		MB	TB 20-07137

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **20-07137**
Report Date: 04/07/20

Batch		Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
8260W_200312	0	O - CHLOROTOLUENE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	O - XYLENE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	P - CHLOROTOLUENE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	P - ISOPROPYLTOLUENE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	PENTACHLOROETHANE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	SEC - BUTYLBENZENE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	STYRENE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	TERT - BUTYLBENZENE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	TETRACHLOROETHYLENE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	TETRAHYDROFURAN	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	TOLUENE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	TRICHLOROETHENE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	TRICHLOROFLUOROMETHANE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	VINYL ACETATE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	VINYL CHLORIDE	ND		ug/L	8260C		0-0		MB	TB 20-07137
	0	GASOLINE (C8 - C12)	ND		mg/L	8260C		0-0		MB	TB 20-07137
COD_200304	0	CHEMICAL OXYGEN DEMAND	ND		mg/L	SM5220 D		0-3		MB	
DXW_200310	0	DIESEL (C12 - C24)	ND		mg/L	NWTPH-Dx		0-0		MB	
	0	HEAVIER OILS (>C24)	ND		mg/L	NWTPH-Dx		0-0		MB	
PAH_W200306	0	1-METHYLNAPHTHALENE	ND		ug/L	8270D		0-0		MB	
	0	2-METHYLNAPHTHALENE	ND		ug/L	8270D		0-0		MB	
	0	ACENAPHTHYLENE	ND		ug/L	8270D		0-0		MB	
	0	ACENAPTHENE	ND		ug/L	8270D		0-0		MB	
	0	ANTHRACENE	ND		ug/L	8270D		0-0		MB	
	0	BENZO[G,H,I]PERYLENE	ND		ug/L	8270D		0-0		MB	
	0	FLUORANTHENE	ND		ug/L	8270D		0-0		MB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **20-07137**
Report Date: 04/07/20

Batch		Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
PAH_W200306	0	FLUORENE	ND		ug/L	8270D		0-0		MB	
	0	NAPHTHALENE	ND		ug/L	8270D		0-0		MB	
	0	PHENANTHRENE	ND		ug/L	8270D		0-0		MB	
	0	PYRENE	ND		ug/L	8270D		0-0		MB	
	0	BENZ[A]ANTHRACENE	ND		ug/L	8270D		0-0		MB	
	0	BENZO[A]PYRENE	ND		ug/L	8270D		0-0		MB	
	0	BENZO[B]FLUORANTHENE	ND		ug/L	8270D		0-0		MB	
	0	BENZO[K]FLUORANTHENE	ND		ug/L	8270D		0-0		MB	
	0	CHRYSENE	ND		ug/L	8270D		0-0		MB	
	0	DIBENZ[A,H]ANTHRACENE	ND		ug/L	8270D		0-0		MB	
	0	INDENO[1,2,3,C,D]PYRENE	ND		ug/L	8270D		0-0		MB	
TDS_200228	0	TOTAL DISSOLVED SOLIDS (TDS)	ND		mg/L	SM2540 C		0-3		MB	
TOC_200229A	0	TOTAL ORGANIC CARBON	ND		mg/L	SM5310 B		0-0		MB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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ANALYTICAL

SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Detection Limit Sample

Reference Number: **20-07137**
Report Date: 04/07/20

Batch		Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
8260W_200312	0	1,1 - DICHLOROETHANE	0.52	0.4	ug/L	8260C	130	50-150		MDL	
	0	1,1 - DICHLOROETHYLENE	0.47	0.4	ug/L	8260C	118	50-150		MDL	
	0	1,1 - DICHLOROPROPENE	0.57	0.4	ug/L	8260C	143	50-150		MDL	
	0	1,1,1 - TRICHLOROETHANE	0.55	0.4	ug/L	8260C	138	50-150		MDL	
	0	1,1,1,2 - TETRACHLOROETHANE	0.50	0.4	ug/L	8260C	125	50-150		MDL	
	0	1,1,2 - TRICHLOROETHANE	0.59	0.4	ug/L	8260C	148	50-150		MDL	
	0	1,1,2,2 - TETRACHLOROETHANE	0.50	0.4	ug/L	8260C	125	50-150		MDL	
	0	1,2 - DICHLOROBENZENE (ortho)	0.60	0.4	ug/L	8260C	150	50-150		MDL	
	0	1,2 - DICHLOROETHANE	0.54	0.4	ug/L	8260C	135	50-150		MDL	
	0	1,2 - DICHLOROPROPANE	0.52	0.4	ug/L	8260C	130	50-150		MDL	
	0	1,2,3 - TRICHLOROBENZENE	0.57	0.4	ug/L	8260C	143	50-150		MDL	
	0	1,2,3 - TRICHLOROPROPANE	0.42	0.4	ug/L	8260C	105	50-150		MDL	
	0	1,2,4 - TRICHLOROBENZENE	0.53	0.4	ug/L	8260C	133	50-150		MDL	
	0	1,2,4 - TRIMETHYLBENZENE	0.48	0.4	ug/L	8260C	120	50-150		MDL	
	0	1,2-DIBROMO-3-CHLOROPROPANE	0.59	0.4	ug/L	8260C	148	50-150		MDL	
	0	1,3 - DICHLOROBENZENE (meta)	0.56	0.4	ug/L	8260C	140	50-150		MDL	
	0	1,3 - DICHLOROPROPANE	0.52	0.4	ug/L	8260C	130	50-150		MDL	
	0	1,3,5 - TRIMETHYLBENZENE	0.47	0.4	ug/L	8260C	118	50-150		MDL	
	0	1,4 - DICHLOROBENZENE (para)	0.56	0.4	ug/L	8260C	140	50-150		MDL	
	0	2,2 - DICHLOROPROPANE	0.55	0.4	ug/L	8260C	138	50-150		MDL	
	0	BENZENE	0.50	0.4	ug/L	8260C	125	50-150		MDL	
	0	BROMOBENZENE	0.54	0.4	ug/L	8260C	135	50-150		MDL	
	0	BROMOCHLOROMETHANE	0.54	0.4	ug/L	8260C	135	50-150		MDL	
	0	BROMODICHLOROMETHANE	0.47	0.4	ug/L	8260C	118	50-150		MDL	
	0	BROMOFORM	0.59	0.4	ug/L	8260C	148	50-150		MDL	
	0	BROMOMETHANE	0.48	0.4	ug/L	8260C	120	50-150		MDL	
	0	CARBON TETRACHLORIDE	0.55	0.4	ug/L	8260C	138	50-150		MDL	
	0	CHLOROBENZENE	0.54	0.4	ug/L	8260C	135	50-150		MDL	
	0	CHLOROETHANE	0.41	0.4	ug/L	8260C	103	50-150		MDL	
	0	CHLOROFORM	0.50	0.4	ug/L	8260C	125	50-150		MDL	
	0	CHLOROMETHANE	0.58	0.4	ug/L	8260C	145	50-150		MDL	
	0	CIS - 1,2 - DICHLOROETHENE	0.50	0.4	ug/L	8260C	125	50-150		MDL	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Detection Limit Sample

Reference Number: **20-07137**
Report Date: 04/07/20

Batch		Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
8260W_200312	0	CIS - 1,3 - DICHLOROPROPENE	0.47	0.4	ug/L	8260C	118	50-150		MDL	
	0	DIBROMOCHLOROMETHANE	0.57	0.4	ug/L	8260C	143	50-150		MDL	
	0	DIBROMOMETHANE	0.56	0.4	ug/L	8260C	140	50-150		MDL	
	0	DICHLORODIFLUOROMETHANE	0.52	0.4	ug/L	8260C	130	50-150		MDL	
	0	ETHYLBENZENE	0.51	0.4	ug/L	8260C	128	50-150		MDL	
	0	HEXACHLOROBUTADIENE	0.44	0.4	ug/L	8260C	110	50-150		MDL	
	0	ISOPROPYLBENZENE	0.50	0.4	ug/L	8260C	125	50-150		MDL	
	0	M,P- XYLENE	1.02	0.8	ug/L	8260C	128	50-150		MDL	
	0	METHYL TERT-BUTYL ETHER	0.57	0.4	ug/L	8260C	143	50-150		MDL	
	0	METHYLENE CHLORIDE	0.33	0.4	ug/L	8260C	83	50-150		MDL	
	0	N - BUTYLBENZENE	0.43	0.4	ug/L	8260C	108	50-150		MDL	
	0	N - PROPYLBENZENE	0.44	0.4	ug/L	8260C	110	50-150		MDL	
	0	NAPHTHALENE	0.49	0.4	ug/L	8260C	123	50-150		MDL	
	0	O - CHLOROTOLUENE	0.60	0.4	ug/L	8260C	150	50-150		MDL	
	0	O - XYLENE	0.53	0.4	ug/L	8260C	133	50-150		MDL	
	0	P - CHLOROTOLUENE	0.53	0.4	ug/L	8260C	133	50-150		MDL	
	0	P - ISOPROPYLTOLUENE	0.50	0.4	ug/L	8260C	125	50-150		MDL	
	0	SEC - BUTYLBENZENE	0.48	0.4	ug/L	8260C	120	50-150		MDL	
	0	STYRENE	0.51	0.4	ug/L	8260C	128	50-150		MDL	
	0	TERT - BUTYLBENZENE	0.52	0.4	ug/L	8260C	130	50-150		MDL	
	0	TETRACHLOROETHYLENE	0.54	0.4	ug/L	8260C	135	50-150		MDL	
	0	TOLUENE	0.55	0.4	ug/L	8260C	138	50-150		MDL	
	0	TRANS - 1,2 - DICHLOROETHENE	0.55	0.4	ug/L	8260C	138	50-150		MDL	
	0	TRANS - 1,3 - DICHLOROPROPENE	0.48	0.4	ug/L	8260C	120	50-150		MDL	
	0	TRICHLOROETHENE	0.56	0.4	ug/L	8260C	140	50-150		MDL	
	0	TRICHLOROFLUOROMETHANE	0.52	0.4	ug/L	8260C	130	50-150		MDL	
	0	VINYL CHLORIDE	0.55	0.4	ug/L	8260C	138	50-150		MDL	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: **20-07137**
Report Date: 04/07/20

Batch		Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
200.7_200302A	0	IRON, Dissolved	2.07	2	mg/L	200.7	104	95-105		QCS	
	0	MANGANESE, Dissolved	2.09	2	mg/L	200.7	105	95-105		QCS	
	0	IRON	2.07	2	mg/L	200.7	104	95-105		QCS	
	0	MANGANESE	2.09	2	mg/L	200.7	105	95-105		QCS	
	1	MAGNESIUM	19.8	20	mg/L	200.7	99	95-105		QCS	
	1	SODIUM	19.8	20	mg/L	200.7	99	95-105		QCS	
	1	CALCIUM	19.3	20	mg/L	200.7	97	95-105		QCS	
	1	POTASSIUM	19.4	20	mg/L	200.7	97	95-105		QCS	
200.8_200303A2	0	ARSENIC, Dissolved	0.0403	0.04	mg/L	200.8	101	90-110		QCS	
	0	BARIUM, Dissolved	0.0398	0.04	mg/L	200.8	100	90-110		QCS	
	0	CADMIUM, Dissolved	0.0428	0.04	mg/L	200.8	107	90-110		QCS	
	0	CHROMIUM, Dissolved	0.0406	0.04	mg/L	200.8	102	90-110		QCS	
	0	COBALT, Dissolved	0.0412	0.04	mg/L	200.8	103	90-110		QCS	
	0	COPPER, Dissolved	0.0412	0.04	mg/L	200.8	103	90-110		QCS	
	0	LEAD, Dissolved	0.0411	0.04	mg/L	200.8	103	90-110		QCS	
	0	NICKEL, Dissolved	0.0405	0.04	mg/L	200.8	101	90-110		QCS	
	0	VANADIUM, Dissolved	0.0402	0.04	mg/L	200.8	101	90-110		QCS	
	0	ZINC, Dissolved	0.0406	0.04	mg/L	200.8	102	90-110		QCS	
	0	ANTIMONY, Dissolved	0.0385	0.04	mg/L	200.8	96	90-110		QCS	
	0	BERYLLIUM, Dissolved	0.0412	0.04	mg/L	200.8	103	90-110		QCS	
	0	SELENIUM, Dissolved	0.0408	0.04	mg/L	200.8	102	90-110		QCS	
	0	SILVER, Dissolved	0.0215	0.02	mg/L	200.8	108	90-110		QCS	
	0	THALLIUM, Dissolved	0.0405	0.04	mg/L	200.8	101	90-110		QCS	
200.8_200304B2	0	ANTIMONY	0.0376	0.04	mg/L	200.8	94	90-110		QCS	
	0	ARSENIC	0.0412	0.04	mg/L	200.8	103	90-110		QCS	
	0	BERYLLIUM	0.0406	0.04	mg/L	200.8	102	90-110		QCS	
	0	CADMIUM	0.0414	0.04	mg/L	200.8	104	90-110		QCS	
	0	CHROMIUM	0.04	0.04	mg/L	200.8	100	90-110		QCS	
	0	COPPER	0.0407	0.04	mg/L	200.8	102	90-110		QCS	
	0	LEAD	0.04	0.04	mg/L	200.8	100	90-110		QCS	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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ANALYTICAL

SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: **20-07137**
Report Date: 04/07/20

Batch		Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
200.8_200304B2	0	NICKEL	0.0408	0.04	mg/L	200.8	102	90-110		QCS	
	0	SELENIUM	0.0408	0.04	mg/L	200.8	102	90-110		QCS	
	0	SILVER	0.0205	0.02	mg/L	200.8	103	90-110		QCS	
	0	THALLIUM	0.0392	0.04	mg/L	200.8	98	90-110		QCS	
	0	ZINC	0.0414	0.04	mg/L	200.8	104	90-110		QCS	
	0	BARIUM	0.0406	0.04	mg/L	200.8	102	90-110		QCS	
245.1_200309	0	MERCURY, Dissolved	0.00214	0.00212	mg/L	245.1	101	90-110		QCS	
350.1_200304	0	AMMONIA-N	4.03	4.32	mg/L	350.1	93	85-115		QCS	
7470A_200312	0	MERCURY	0.0022	0.00212	mg/L	7470A	104	90-110		QCS	
ALK_200308	0	ALKALINITY	98.7	100.0	mg CaCO3/L	SM2320 B	99	90-110		QCS	
COD_200304	0	CHEMICAL OXYGEN DEMAND	367	362	mg/L	SM5220 D	101	90-110		QCS	
IC02_200228A	0	CHLORIDE	6.3	6	mg/L	300.0	105	90-110		QCS	
	0	SULFATE	30.1	30	mg/L	300.0	100	90-110		QCS	
	0	NITRATE-N	6.15	6	mg/L	300.0	103	90-110		QCS	
	0	NITRITE-N	6.2	6	mg/L	300.0	103	90-110		QCS	
TDS_200228	0	TOTAL DISSOLVED SOLIDS (TDS)	490	500	mg/L	SM2540 C	98	80-120		QCS	
TOC_200229A	0	TOTAL ORGANIC CARBON	9.1	10	mg/L	SM5310 B	91	90-110		QCS	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE DEPENDENT
QUALITY CONTROL REPORT
Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Batch	Sample	Analyte	Result	Duplicate Result	Units	%RPD	Limits	QC Qualifier	Type	Comments
Duplicate										
200.7_200302A										
7439-96-5	13864	MANGANESE	0.157	0.162	mg/L	**3.1**	0-20		DUP	
7439-96-5	13864	MANGANESE, Dissolved	0.157	0.162	mg/L	**3.1**	0-20		DUP	
7439-89-6	13981	IRON	0.10	0.10	mg/L	**0.0**	0-20		DUP	
7439-89-6	13981	IRON, Dissolved	0.10	0.10	mg/L	**0.0**	0-20		DUP	
7439-96-5	13981	MANGANESE	ND	ND	mg/L	**NA**	0-20		DUP	
7439-96-5	13981	MANGANESE, Dissolved	ND	ND	mg/L	**NA**	0-20		DUP	
7439-89-6	13994	IRON	0.39	0.38	mg/L	**2.6**	0-20		DUP	
7439-89-6	13994	IRON, Dissolved	0.39	0.38	mg/L	**2.6**	0-20		DUP	
7439-96-5	13994	MANGANESE	0.026	0.026	mg/L	**0.0**	0-20		DUP	
7439-96-5	13994	MANGANESE, Dissolved	0.026	0.026	mg/L	**0.0**	0-20		DUP	
7439-89-6	13999	IRON	ND	ND	mg/L	**NA**	0-20		DUP	
7439-89-6	13999	IRON, Dissolved	ND	ND	mg/L	**NA**	0-20		DUP	
7439-96-5	13999	MANGANESE	ND	ND	mg/L	**NA**	0-20		DUP	
7439-96-5	13999	MANGANESE, Dissolved	ND	ND	mg/L	**NA**	0-20		DUP	
7440-23-5	14031	SODIUM	12.1	12.1	mg/L	**0.0**	0-20		DUP	
200.8_200303A2										
7440-38-2	13713	ARSENIC, Dissolved	ND	ND	mg/L	**NA**	0-20		DUP	
7440-38-2	13763	ARSENIC, Dissolved	0.0066	0.0065	mg/L	**1.5**	0-20		DUP	
7440-38-2	13843	ARSENIC, Dissolved	0.0011	0.0011	mg/L	**0.0**	0-20		DUP	
7439-92-1	13846	LEAD, Dissolved	0.0014	0.0014	mg/L	**0.0**	0-20		DUP	
7440-38-2	13906	ARSENIC, Dissolved	ND	ND	mg/L	**NA**	0-20		DUP	
7440-38-2	13980	ARSENIC, Dissolved	0.0041	0.0041	mg/L	**0.0**	0-20		DUP	
7440-39-3	13980	BARIUM, Dissolved	0.0238	0.0239	mg/L	**0.4**	0-20		DUP	
7440-43-9	13980	CADMIUM, Dissolved	ND	ND	mg/L	**NA**	0-20		DUP	

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FORM: QC Dependent.rpt

Reference Number: 20-07137
Report Date: 4/7/2020

Batch	Sample	Analyte	Result	Duplicate Result	Units	%RPD	Limits	QC Qualifier	Type	Comments
7440-47-3	13980	CHROMIUM, Dissolved	ND	ND	mg/L	**NA**	0-20		DUP	
7439-92-1	13980	LEAD, Dissolved	ND	ND	mg/L	**NA**	0-20		DUP	
7782-49-2	13980	SELENIUM, Dissolved	ND	ND	mg/L	**NA**	0-20		DUP	
7440-22-4	13980	SILVER, Dissolved	ND	ND	mg/L	**NA**	0-20		DUP	
7440-36-0	14023	ANTIMONY, Dissolved	0.0005	0.0005	mg/L	**0.0**	0-20		DUP	
7440-38-2	14023	ARSENIC, Dissolved	0.0006	0.0006	mg/L	**0.0**	0-20		DUP	
7440-39-3	14023	BARIUM, Dissolved	0.0902	0.0900	mg/L	**0.2**	0-20		DUP	
7440-41-7	14023	BERYLLIUM, Dissolved	ND	ND	mg/L	**NA**	0-20		DUP	
7440-43-9	14023	CADMIUM, Dissolved	0.000096	0.00009	mg/L	**6.5**	0-20		DUP	
7440-47-3	14023	CHROMIUM, Dissolved	0.0002	0.0002	mg/L	**0.0**	0-20		DUP	
7440-48-4	14023	COBALT, Dissolved	0.0002	0.0002	mg/L	**0.0**	0-20		DUP	
7440-50-8	14023	COPPER, Dissolved	0.0073	0.0074	mg/L	**1.4**	0-20		DUP	
7439-92-1	14023	LEAD, Dissolved	0.00027	0.00027	mg/L	**0.0**	0-20		DUP	
7440-02-0	14023	NICKEL, Dissolved	0.0028	0.0028	mg/L	**0.0**	0-20		DUP	
7782-49-2	14023	SELENIUM, Dissolved	0.0003	0.0003	mg/L	**0.0**	0-20		DUP	
7440-22-4	14023	SILVER, Dissolved	ND	ND	mg/L	**NA**	0-20		DUP	
7440-28-0	14023	THALLIUM, Dissolved	ND	ND	mg/L	**NA**	0-20		DUP	
7440-62-2	14023	VANADIUM, Dissolved	0.0003	0.0003	mg/L	**0.0**	0-20		DUP	
7440-66-6	14023	ZINC, Dissolved	0.0366	0.037	mg/L	**1.1**	0-20		DUP	
7440-38-2	14062	ARSENIC, Dissolved	0.0010	0.0010	mg/L	**0.0**	0-20		DUP	
200.8_200304B2										
7440-36-0	14023	ANTIMONY	0.0005	0.0005	mg/L	**0.0**	0-20		DUP	
7440-38-2	14023	ARSENIC	0.0007	0.0006	mg/L	**15.4**	0-20		DUP	
7440-39-3	14023	BARIUM	0.0841	0.0852	mg/L	**1.3**	0-20		DUP	
7440-41-7	14023	BERYLLIUM	0.000019	0.00001	mg/L	**37.5**	0-20	IEV	DUP	
7440-43-9	14023	CADMIUM	0.00017	0.00016	mg/L	**6.1**	0-20		DUP	
7440-47-3	14023	CHROMIUM	0.0008	0.00096	mg/L	**18.2**	0-20		DUP	
7440-50-8	14023	COPPER	0.0105	0.0105	mg/L	**0.0**	0-20		DUP	
7439-92-1	14023	LEAD	0.0008	0.0007	mg/L	**13.3**	0-20		DUP	
7440-02-0	14023	NICKEL	0.0035	0.0036	mg/L	**2.8**	0-20		DUP	
7782-49-2	14023	SELENIUM	0.0005	0.00043	mg/L	**15.1**	0-20		DUP	
7440-22-4	14023	SILVER	0.0001	0.0001	mg/L	**0.0**	0-20		DUP	
7440-28-0	14023	THALLIUM	0.00002	0.00001	mg/L	**58.1**	0-20	IEV	DUP	
7440-66-6	14023	ZINC	0.0488	0.0484	mg/L	**0.8**	0-20		DUP	

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Batch	Sample	Analyte	Result	Duplicate Result	Units	%RPD	Limits	QC Qualifier	Type	Comments
7440-50-8	14092	COPPER	0.0002	0.00014	mg/L	**35.3**	0-20	IEV	DUP	
350.1_200304										
7664-41-7	14490	AMMONIA-N	ND	0.01	mg/L	**NA**	0-20	INH	DUP	
7664-41-7	14492	AMMONIA-N	0.02	0.02	mg/L	**0.0**	0-20		DUP	
7664-41-7	14494	AMMONIA-N	ND	ND	mg/L	**NA**	0-20		DUP	
7664-41-7	14530	AMMONIA-N	ND	ND	mg/L	**NA**	0-20		DUP	
7470A_200312										
7439-97-6	16237	MERCURY	ND	ND	mg/L	**NA**	0-45		DUP	
8260W_200312										
75-34-3	14021	1,1 - DICHLOROETHANE	ND	ND	ug/L	**NA**	0-30		DUP	
75-35-4	14021	1,1 - DICHLOROETHYLENE	ND	ND	ug/L	**NA**	0-30		DUP	
563-58-6	14021	1,1 - DICHLOROPROPENE	ND	ND	ug/L	**NA**	0-30		DUP	
71-55-6	14021	1,1,1 - TRICHLOROETHANE	ND	ND	ug/L	**NA**	0-30		DUP	
630-20-6	14021	1,1,1,2 - TETRACHLOROETHANE	ND	ND	ug/L	**NA**	0-30		DUP	
79-00-5	14021	1,1,2 - TRICHLOROETHANE	ND	ND	ug/L	**NA**	0-30		DUP	
76-13-1	14021	1,1,2 - TRICHLOROTRIFLUOROETHAN	ND	ND	ug/L	**NA**	0-30		DUP	
79-34-5	14021	1,1,2,2 - TETRACHLOROETHANE	ND	ND	ug/L	**NA**	0-30		DUP	
106-93-4	14021	1,2 - DIBROMOETHANE (EDB)	ND	ND	ug/L	**NA**	0-30		DUP	
95-50-1	14021	1,2 - DICHLOROBENZENE (ortho)	ND	ND	ug/L	**NA**	0-30		DUP	
107-06-2	14021	1,2 - DICHLOROETHANE	ND	ND	ug/L	**NA**	0-30		DUP	
78-87-5	14021	1,2 - DICHLOROPROPANE	ND	ND	ug/L	**NA**	0-30		DUP	
87-61-6	14021	1,2,3 - TRICHLOROBENZENE	ND	ND	ug/L	**NA**	0-30		DUP	
96-18-4	14021	1,2,3 - TRICHLOROPROPANE	ND	ND	ug/L	**NA**	0-30		DUP	
120-82-1	14021	1,2,4 - TRICHLOROBENZENE	ND	ND	ug/L	**NA**	0-30		DUP	
95-63-6	14021	1,2,4 - TRIMETHYLBENZENE	ND	ND	ug/L	**NA**	0-30		DUP	
96-12-8	14021	1,2-DIBROMO-3-CHLOROPROPANE	ND	ND	ug/L	**NA**	0-30		DUP	
541-73-1	14021	1,3 - DICHLOROBENZENE (meta)	ND	ND	ug/L	**NA**	0-30		DUP	
142-28-9	14021	1,3 - DICHLOROPROPANE	ND	ND	ug/L	**NA**	0-30		DUP	
108-67-8	14021	1,3,5 - TRIMETHYLBENZENE	ND	ND	ug/L	**NA**	0-30		DUP	
106-46-7	14021	1,4 - DICHLOROBENZENE (para)	ND	ND	ug/L	**NA**	0-30		DUP	
109-69-3	14021	1-CHLOROBUTANE	ND	ND	ug/L	**NA**	0-30		DUP	
594-20-7	14021	2,2 - DICHLOROPROPANE	ND	ND	ug/L	**NA**	0-30		DUP	
78-93-3	14021	2-BUTANONE (MEK)	ND	ND	ug/L	**NA**	0-30		DUP	
110-75-8	14021	2-CHLOROETHYL VINYL ETHER	ND	ND	ug/L	**NA**	0-30		DUP	

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Report Date: 4/7/2020

Batch	Sample	Analyte	Result	Duplicate Result	Units	%RPD	Limits	QC Qualifier	Type	Comments
591-78-6	14021	2-HEXANONE	ND	ND	ug/L	**NA**	0-30		DUP	
79-46-9	14021	2-NITROPROPANE	ND	ND	ug/L	**NA**	0-30		DUP	
108-10-1	14021	4-METHYL-2-PENTANONE	ND	ND	ug/L	**NA**	0-30		DUP	
67-64-1	14021	ACETONE	ND	ND	ug/L	**NA**	0-30		DUP	
107-02-8	14021	ACROLEIN	ND	ND	ug/L	**NA**	0-30		DUP	
107-13-1	14021	ACRYLONITRILE	ND	ND	ug/L	**NA**	0-30		DUP	
107-05-1	14021	ALLYL CHLORIDE	ND	ND	ug/L	**NA**	0-30		DUP	
71-43-2	14021	BENZENE	ND	ND	ug/L	**NA**	0-30		DUP	
108-86-1	14021	BROMOBENZENE	ND	ND	ug/L	**NA**	0-30		DUP	
74-97-5	14021	BROMOCHLOROMETHANE	ND	ND	ug/L	**NA**	0-30		DUP	
75-27-4	14021	BROMODICHLOROMETHANE	ND	ND	ug/L	**NA**	0-30		DUP	
75-25-2	14021	BROMOFORM	ND	ND	ug/L	**NA**	0-30		DUP	
74-83-9	14021	BROMOMETHANE	ND	ND	ug/L	**NA**	0-30		DUP	
75-15-0	14021	CARBON DISULFIDE	ND	ND	ug/L	**NA**	0-30		DUP	
56-23-5	14021	CARBON TETRACHLORIDE	ND	ND	ug/L	**NA**	0-30		DUP	
108-90-7	14021	CHLOROBENZENE	ND	ND	ug/L	**NA**	0-30		DUP	
75-45-6	14021	CHLORODIFLUOROMETHANE (FREON	ND	ND	ug/L	**NA**	0-30		DUP	
75-00-3	14021	CHLOROETHANE	ND	ND	ug/L	**NA**	0-30		DUP	
67-66-3	14021	CHLOROFORM	ND	ND	ug/L	**NA**	0-30		DUP	
74-87-3	14021	CHLOROMETHANE	ND	ND	ug/L	**NA**	0-30		DUP	
156-59-2	14021	CIS - 1,2 - DICHLOROETHENE	ND	ND	ug/L	**NA**	0-30		DUP	
10061-01-5	14021	CIS - 1,3 - DICHLOROPROPENE	ND	ND	ug/L	**NA**	0-30		DUP	
124-48-1	14021	DIBROMOCHLOROMETHANE	ND	ND	ug/L	**NA**	0-30		DUP	
74-95-3	14021	DIBROMOMETHANE	ND	ND	ug/L	**NA**	0-30		DUP	
75-71-8	14021	DICHLORODIFLUOROMETHANE	ND	ND	ug/L	**NA**	0-30		DUP	
75-43-4	14021	DICHLOROFLUOROMETHANE (FREON	ND	ND	ug/L	**NA**	0-30		DUP	
60-29-7	14021	DIETHYL ETHER	ND	ND	ug/L	**NA**	0-30		DUP	
97-63-2	14021	ETHYL METHACRYLATE	ND	ND	ug/L	**NA**	0-30		DUP	
100-41-4	14021	ETHYLBENZENE	ND	ND	ug/L	**NA**	0-30		DUP	
87-68-3	14021	HEXACHLOROBUTADIENE	ND	ND	ug/L	**NA**	0-30		DUP	
67-72-1	14021	HEXACHLOROETHANE	ND	ND	ug/L	**NA**	0-30		DUP	
98-82-8	14021	ISOPROPYLBENZENE	ND	ND	ug/L	**NA**	0-30		DUP	
1330-20-7	14021	M,P- XYLENE	ND	ND	ug/L	**NA**	0-30		DUP	
126-98-7	14021	METHACRYLONITRILE	ND	ND	ug/L	**NA**	0-30		DUP	

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96-33-3	14021	METHYL ACRYLATE	ND	ND	ug/L	**NA**	0-30		DUP	
74-88-4	14021	METHYL IODIDE	ND	ND	ug/L	**NA**	0-30		DUP	
80-62-6	14021	METHYL METHACRYLATE	ND	ND	ug/L	**NA**	0-30		DUP	
1634-04-4	14021	METHYL TERT-BUTYL ETHER	ND	ND	ug/L	**NA**	0-30		DUP	
75-09-2	14021	METHYLENE CHLORIDE	ND	ND	ug/L	**NA**	0-30		DUP	
104-51-8	14021	N - BUTYLBENZENE	ND	ND	ug/L	**NA**	0-30		DUP	
103-65-1	14021	N - PROPYLBENZENE	ND	ND	ug/L	**NA**	0-30		DUP	
91-20-3	14021	NAPHTHALENE	ND	ND	ug/L	**NA**	0-30		DUP	
95-49-8	14021	O - CHLOROTOLUENE	ND	ND	ug/L	**NA**	0-30		DUP	
95-47-6	14021	O - XYLENE	ND	ND	ug/L	**NA**	0-30		DUP	
106-43-4	14021	P - CHLOROTOLUENE	ND	ND	ug/L	**NA**	0-30		DUP	
99-87-6	14021	P - ISOPROPYLTOLUENE	ND	ND	ug/L	**NA**	0-30		DUP	
76-01-7	14021	PENTACHLOROETHANE	ND	ND	ug/L	**NA**	0-30		DUP	
135-98-8	14021	SEC - BUTYLBENZENE	ND	ND	ug/L	**NA**	0-30		DUP	
100-42-5	14021	STYRENE	ND	ND	ug/L	**NA**	0-30		DUP	
98-06-6	14021	TERT - BUTYLBENZENE	ND	ND	ug/L	**NA**	0-30		DUP	
127-18-4	14021	TETRACHLOROETHYLENE	ND	ND	ug/L	**NA**	0-30		DUP	
109-99-9	14021	TETRAHYDROFURAN	ND	ND	ug/L	**NA**	0-30		DUP	
108-88-3	14021	TOLUENE	ND	ND	ug/L	**NA**	0-30		DUP	
156-60-5	14021	TRANS - 1,2 - DICHLOROETHENE	ND	ND	ug/L	**NA**	0-30		DUP	
10061-02-6	14021	TRANS - 1,3 - DICHLOROPROPENE	ND	ND	ug/L	**NA**	0-30		DUP	
110-57-6	14021	TRANS - 1,4 - DICHLORO-2-BUTENE	ND	ND	ug/L	**NA**	0-30		DUP	
79-01-6	14021	TRICHLOROETHENE	ND	ND	ug/L	**NA**	0-30		DUP	
75-69-4	14021	TRICHLOROFLUOROMETHANE	ND	ND	ug/L	**NA**	0-30		DUP	
108-05-4	14021	VINYL ACETATE	ND	ND	ug/L	**NA**	0-30		DUP	
75-01-4	14021	VINYL CHLORIDE	ND	ND	ug/L	**NA**	0-30		DUP	
68334-30-5	14021	GASOLINE (C8 - C12)	ND	ND	mg/L	**NA**	0-30		DUP	
ALK_200308										
E-14506	14021	ALKALINITY	220.4	222.4	mg CaCO3/l	**0.9**	0-20		DUP	
E-14506	14919	ALKALINITY	136.7	135.5	mg CaCO3/l	**0.9**	0-20		DUP	
ALK_200315										
NA	14021	BICARBONATE	218.2	218.4	mg CaCO3/l	**0.1**	0-20		DUP	
COD_200304										
E-10117	14245	CHEMICAL OXYGEN DEMAND	86	87	mg/L	**1.2**	0-20		DUP	

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FORM: QC Dependent.rpt

Reference Number: 20-07137
Report Date: 4/7/2020

Batch	Sample	Analyte	Result	Duplicate Result	Units	%RPD	Limits	QC Qualifier	Type	Comments
E-10117	14246	CHEMICAL OXYGEN DEMAND	47	50	mg/L	**6.2**	0-20		DUP	
DXW_200310										
NA	15136	DIESEL (C12 - C24)	ND	ND	mg/L	**NA**	0-30		DUP	
NA	15136	HEAVIER OILS (>C24)	ND	ND	mg/L	**NA**	0-30		DUP	
IC02_200228A										
16887-00-6	13963	CHLORIDE	4.3	4.3	mg/L	**0.0**	0-20		DUP	
14797-55-8	13963	NITRATE-N	1.14	1.11	mg/L	**2.7**	0-20		DUP	
14797-65-0	13963	NITRITE-N	ND	ND	mg/L	**NA**	0-20		DUP	
14808-79-8	13963	SULFATE	7.2	7.3	mg/L	**1.4**	0-20		DUP	
16887-00-6	14031	CHLORIDE	7.8	7.8	mg/L	**0.0**	0-20		DUP	
14797-55-8	14031	NITRATE-N	1.47	1.47	mg/L	**0.0**	0-20		DUP	
16887-00-6	14085	CHLORIDE	91.2	91.0	mg/L	**0.2**	0-20		DUP	
14808-79-8	14085	SULFATE	27.7	27.8	mg/L	**0.4**	0-20		DUP	
PAH_W200306										
90-12-0	14021	1-METHYLNAPHTHALENE	ND	ND	ug/L	**NA**	0-60		DUP	
91-57-6	14021	2-METHYLNAPHTHALENE	ND	ND	ug/L	**NA**	0-60		DUP	
208-96-8	14021	ACENAPHTHYLENE	ND	ND	ug/L	**NA**	0-60		DUP	
83-32-9	14021	ACENAPTHENE	ND	ND	ug/L	**NA**	0-60		DUP	
120-12-7	14021	ANTHRACENE	ND	ND	ug/L	**NA**	0-60		DUP	
56-55-3	14021	BENZ[A]ANTHRACENE	ND	ND	ug/L	**NA**	0-60		DUP	
50-32-8	14021	BENZO[A]PYRENE	ND	ND	ug/L	**NA**	0-60		DUP	
205-99-2	14021	BENZO[B]FLUORANTHENE	ND	ND	ug/L	**NA**	0-60		DUP	
191-24-2	14021	BENZO[G,H,I]PERYLENE	ND	ND	ug/L	**NA**	0-60		DUP	
207-08-9	14021	BENZO[K]FLUORANTHENE	ND	ND	ug/L	**NA**	0-60		DUP	
218-01-9	14021	CHRYSENE	ND	ND	ug/L	**NA**	0-60		DUP	
53-70-3	14021	DIBENZ[A,H]ANTHRACENE	ND	ND	ug/L	**NA**	0-60		DUP	
206-44-0	14021	FLUORANTHENE	ND	ND	ug/L	**NA**	0-60		DUP	
86-73-7	14021	FLUORENE	ND	ND	ug/L	**NA**	0-60		DUP	
193-39-5	14021	INDENO[1,2,3,C,D]PYRENE	ND	ND	ug/L	**NA**	0-60		DUP	
91-20-3	14021	NAPHTHALENE	ND	ND	ug/L	**NA**	0-60		DUP	
85-01-8	14021	PHENANTHRENE	ND	ND	ug/L	**NA**	0-60		DUP	
129-00-0	14021	PYRENE	ND	ND	ug/L	**NA**	0-60		DUP	
TDS_200228										
E-10173	13960	TOTAL DISSOLVED SOLIDS (TDS)	104	105	mg/L	**1.0**	0-5		DUP	

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Reference Number: 20-07137
Report Date: 4/7/2020

Batch	Sample	Analyte	Result	Duplicate Result	Units	%RPD	Limits	QC Qualifier	Type	Comments
E-10173	14092	TOTAL DISSOLVED SOLIDS (TDS)	ND	ND	mg/L	**NA**	0-5		DUP	
TOC_200229A										
E-10195	12432	TOTAL ORGANIC CARBON	0.28	0.27	mg/L	**3.6**	0-20		DUP	
E-10195	12897	TOTAL ORGANIC CARBON	ND	ND	mg/L	**NA**	0-20		DUP	
E-10195	13093	TOTAL ORGANIC CARBON	1.70	1.67	mg/L	**1.8**	0-20		DUP	
E-10195	13533	TOTAL ORGANIC CARBON	0.59	0.59	mg/L	**0.0**	0-20		DUP	

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Reference Number: 20-07137
Report Date: 4/7/2020

Laboratory Fortified Matrix (MS)

Batch/CAS	Sample	Analyte	Result	Spike Result	Duplicate Spike Result	Spike Conc	Units	Percent Recovery MS	Percent Recovery MSD	Limits*	%RPD	Limits*	QC Qualifier	Type	Comments
200.7_200302A															
7439-96-5	13864	MANGANESE	0.157	0.658	0.667	0.500	mg/L	**100**	**102**	70-130	**1.8**	0-20		LFM	
7439-96-5	13864	MANGANESE, Dissolved	0.157	0.658	0.667	0.500	mg/L	**100**	**102**	70-130	**1.8**	0-20		LFM	
7439-89-6	13981	IRON	0.10	0.61	0.61	0.50	mg/L	**102**	**102**	70-130	**0.0**	0-20		LFM	
7439-89-6	13981	IRON, Dissolved	0.10	0.61	0.61	0.50	mg/L	**102**	**102**	70-130	**0.0**	0-20		LFM	
7439-96-5	13981	MANGANESE	ND	0.507	0.506	0.50	mg/L	**101**	**101**	70-130	**0.2**	0-20		LFM	
7439-96-5	13981	MANGANESE, Dissolved	ND	0.507	0.506	0.50	mg/L	**101**	**101**	70-130	**0.2**	0-20		LFM	
7439-89-6	13994	IRON	0.39	0.91	0.98	0.50	mg/L	**104**	**118**	70-130	**12.6**	0-20		LFM	
7439-89-6	13994	IRON, Dissolved	0.39	0.91	0.98	0.50	mg/L	**104**	**118**	70-130	**12.6**	0-20		LFM	
7439-96-5	13994	MANGANESE	0.026	0.527	0.551	0.50	mg/L	**100**	**105**	70-130	**4.7**	0-20		LFM	
7439-96-5	13994	MANGANESE, Dissolved	0.026	0.527	0.551	0.50	mg/L	**100**	**105**	70-130	**4.7**	0-20		LFM	
7439-89-6	13999	IRON	ND	0.52	0.52	0.50	mg/L	**104**	**104**	70-130	**0.0**	0-20		LFM	
7439-89-6	13999	IRON, Dissolved	ND	0.52	0.52	0.50	mg/L	**104**	**104**	70-130	**0.0**	0-20		LFM	
7439-96-5	13999	MANGANESE	ND	0.513	0.516	0.500	mg/L	**103**	**103**	70-130	**0.6**	0-20		LFM	
7439-96-5	13999	MANGANESE, Dissolved	ND	0.513	0.516	0.500	mg/L	**103**	**103**	70-130	**0.6**	0-20		LFM	
7440-23-5	14031	SODIUM	12.1	24.9		13.0	mg/L	**98**		70-130	**NA**	0-20		LFM	
200.8_200303A2															
7440-38-2	13713	ARSENIC, Dissolved	ND	0.0104		0.010	mg/L	**104**		70-130	**NA**	0-20		LFM	
7440-38-2	13763	ARSENIC, Dissolved	0.0066	0.0166		0.010	mg/L	**100**		70-130	**NA**	0-20		LFM	
7440-38-2	13843	ARSENIC, Dissolved	0.0011	0.0110		0.010	mg/L	**99**		70-130	**NA**	0-20		LFM	
7439-92-1	13846	LEAD, Dissolved	0.0014	0.0114		0.010	mg/L	**100**		70-130	**NA**	0-20		LFM	
7440-38-2	13906	ARSENIC, Dissolved	ND	0.0111		0.010	mg/L	**111**		70-130	**NA**	0-20		LFM	
7440-38-2	13980	ARSENIC, Dissolved	0.0041	0.0146		0.010	mg/L	**105**		70-130	**NA**	0-20		LFM	
7440-39-3	13980	BARIUM, Dissolved	0.0238	0.0336		0.010	mg/L	**98**		70-130	**NA**	0-20		LFM	
7440-43-9	13980	CADMIUM, Dissolved	ND	0.0100		0.010	mg/L	**100**		70-130	**NA**	0-20		LFM	
7440-47-3	13980	CHROMIUM, Dissolved	ND	0.0093		0.010	mg/L	**93**		70-130	**NA**	0-20		LFM	
7439-92-1	13980	LEAD, Dissolved	ND	0.0098		0.010	mg/L	**98**		70-130	**NA**	0-20		LFM	
7782-49-2	13980	SELENIUM, Dissolved	ND	0.0103		0.010	mg/L	**103**		70-130	**NA**	0-20		LFM	
7440-22-4	13980	SILVER, Dissolved	ND	0.0102		0.010	mg/L	**102**		70-130	**NA**	0-20		LFM	
7440-36-0	14023	ANTIMONY, Dissolved	0.0005	0.0107		0.010	mg/L	**102**		70-130	**NA**	0-20		LFM	
7440-38-2	14023	ARSENIC, Dissolved	0.0006	0.0103		0.010	mg/L	**97**		70-130	**NA**	0-20		LFM	
7440-39-3	14023	BARIUM, Dissolved	0.0902	0.0994		0.010	mg/L	**92**		70-130	**NA**	0-20		LFM	
7440-41-7	14023	BERYLLIUM, Dissolved	ND	0.0090		0.010	mg/L	**90**		70-130	**NA**	0-20		LFM	

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Report Date: 4/7/2020

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7440-43-9	14023	CADMIUM, Dissolved	0.000096	0.0098		0.010	mg/L	**97**		70-130	**NA**	0-20		LFM	
7440-47-3	14023	CHROMIUM, Dissolved	0.0002	0.0098		0.010	mg/L	**96**		70-130	**NA**	0-20		LFM	
7440-48-4	14023	COBALT, Dissolved	0.0002	0.0101		0.010	mg/L	**99**		70-130	**NA**	0-20		LFM	
7440-50-8	14023	COPPER, Dissolved	0.0073	0.0170		0.010	mg/L	**97**		70-130	**NA**	0-20		LFM	
7439-92-1	14023	LEAD, Dissolved	0.00027	0.0097		0.010	mg/L	**94**		70-130	**NA**	0-20		LFM	
7440-02-0	14023	NICKEL, Dissolved	0.0028	0.0121		0.010	mg/L	**93**		70-130	**NA**	0-20		LFM	
7782-49-2	14023	SELENIUM, Dissolved	0.0003	0.0087		0.010	mg/L	**84**		70-130	**NA**	0-20		LFM	
7440-22-4	14023	SILVER, Dissolved	ND	0.0075		0.010	mg/L	**75**		70-130	**NA**	0-20		LFM	
7440-28-0	14023	THALLIUM, Dissolved	ND	0.0096		0.010	mg/L	**96**		70-130	**NA**	0-20		LFM	
7440-62-2	14023	VANADIUM, Dissolved	0.0003	0.0103		0.010	mg/L	**100**		70-130	**NA**	0-20		LFM	
7440-66-6	14023	ZINC, Dissolved	0.0366	0.0444		0.010	mg/L	**78**		70-130	**NA**	0-20		LFM	
7440-38-2	14062	ARSENIC, Dissolved	0.0010	0.0117		0.010	mg/L	**107**		70-130	**NA**	0-20		LFM	
200.8_200304B2															
7440-36-0	14023	ANTIMONY	0.0005	0.0271		0.025	mg/L	**106**		70-130	**NA**	0-20		LFM	
7440-38-2	14023	ARSENIC	0.0007	0.0277		0.025	mg/L	**108**		70-130	**NA**	0-20		LFM	
7440-39-3	14023	BARIUM	0.0841	0.115		0.025	mg/L	**124**		70-130	**NA**	0-20		LFM	
7440-41-7	14023	BERYLLIUM	0.000019	0.0271		0.025	mg/L	**108**		70-130	**NA**	0-20		LFM	
7440-43-9	14023	CADMIUM	0.00017	0.0277		0.025	mg/L	**110**		70-130	**NA**	0-20		LFM	
7440-47-3	14023	CHROMIUM	0.0008	0.0300		0.025	mg/L	**117**		70-130	**NA**	0-20		LFM	
7440-50-8	14023	COPPER	0.0105	0.0398		0.025	mg/L	**117**		70-130	**NA**	0-20		LFM	
7439-92-1	14023	LEAD	0.0008	0.0288		0.025	mg/L	**112**		70-130	**NA**	0-20		LFM	
7440-02-0	14023	NICKEL	0.0035	0.0329		0.025	mg/L	**118**		70-130	**NA**	0-20		LFM	
7782-49-2	14023	SELENIUM	0.0005	0.0252		0.025	mg/L	**99**		70-130	**NA**	0-20		LFM	
7440-22-4	14023	SILVER	0.0001	0.0147		0.0125	mg/L	**117**		70-130	**NA**	0-20		LFM	
7440-28-0	14023	THALLIUM	0.00002	0.0275		0.025	mg/L	**110**		70-130	**NA**	0-20		LFM	
7440-66-6	14023	ZINC	0.0488	0.0748		0.025	mg/L	**104**		70-130	**NA**	0-20		LFM	
7440-50-8	14092	COPPER	0.0002	0.0276		0.025	mg/L	**110**		70-130	**NA**	0-20		LFM	
245.1_200309															
7439-97-6	13984	MERCURY, Dissolved	ND	0.00171	0.00163	0.00167	mg/L	**102**	**98**	70-130	**4.8**	0-20		LFM	
7439-97-6	14540	MERCURY, Dissolved	ND	0.00166	0.00160	0.00167	mg/L	**99**	**96**	70-130	**3.7**	0-20		LFM	
350.1_200304															
7664-41-7	14490	AMMONIA-N	ND	1.10	1.08	1.00	mg/L	**110**	**108**	70-130	**1.8**	0-20		LFM	
7664-41-7	14492	AMMONIA-N	0.02	1.07	1.08	1.00	mg/L	**105**	**106**	70-130	**0.9**	0-20		LFM	
7664-41-7	14494	AMMONIA-N	ND	1.07	1.09	1.00	mg/L	**107**	**109**	70-130	**1.9**	0-20		LFM	

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7664-41-7	14530	AMMONIA-N	ND	1.09	1.09	1.00	mg/L	**109**	**109**	70-130	**0.0**	0-20		LFM	
7470A_200312															
7439-97-6	16237	MERCURY	ND	0.00163	0.00166	0.00167	mg/L	**98**	**99**	70-130	**1.8**	0-20		LFM	
8260SIM_200313															
106-93-4	17925	1,2 - DIBROMOETHANE (EDB SIM)	ND	0.086		0.1	ug/L	**86**	**NA**	70-130	**NA**	0-20		LFM	
123-91-1	17925	1,4-DIOXANE (SIM)	19.6	27.8		10	ug/L	**82**	**NA**	70-130	**NA**	0-20		LFM	
75-01-4	17925	VINYL CHLORIDE (SIM)	ND	0.089		0.1	ug/L	**89**	**NA**	70-130	**NA**	0-20		LFM	
8260W_200312															
75-34-3	14024	1,1 - DICHLOROETHANE	ND	4.4		4	ug/L	**110**	**NA**	70-130	**NA**	0-0		LFM	
75-35-4	14024	1,1 - DICHLOROETHYLENE	ND	4.7		4	ug/L	**118**	**NA**	70-130	**NA**	0-0		LFM	
563-58-6	14024	1,1 - DICHLOROPROPENE	ND	4.7		4	ug/L	**118**	**NA**	70-130	**NA**	0-0		LFM	
71-55-6	14024	1,1,1 - TRICHLOROETHANE	ND	4.7		4	ug/L	**118**	**NA**	70-130	**NA**	0-0		LFM	
630-20-6	14024	1,1,1,2 - TETRACHLOROETHANE	ND	4.3		4	ug/L	**108**	**NA**	70-130	**NA**	0-0		LFM	
79-00-5	14024	1,1,2 - TRICHLOROETHANE	ND	4.4		4	ug/L	**110**	**NA**	70-130	**NA**	0-0		LFM	
79-34-5	14024	1,1,2,2 - TETRACHLOROETHANE	ND	4.5		4	ug/L	**113**	**NA**	70-130	**NA**	0-0		LFM	
95-50-1	14024	1,2 - DICHLOROBENZENE (ortho)	ND	4.3		4	ug/L	**108**	**NA**	70-130	**NA**	0-0		LFM	
107-06-2	14024	1,2 - DICHLOROETHANE	ND	4.4		4	ug/L	**110**	**NA**	70-130	**NA**	0-0		LFM	
78-87-5	14024	1,2 - DICHLOROPROPANE	ND	4.3		4	ug/L	**108**	**NA**	70-130	**NA**	0-0		LFM	
87-61-6	14024	1,2,3 - TRICHLOROBENZENE	ND	4.3		4	ug/L	**108**	**NA**	70-130	**NA**	0-0		LFM	
96-18-4	14024	1,2,3 - TRICHLOROPROPANE	ND	4.4		4	ug/L	**110**	**NA**	70-130	**NA**	0-0		LFM	
120-82-1	14024	1,2,4 - TRICHLOROBENZENE	ND	4.2		4	ug/L	**105**	**NA**	70-130	**NA**	0-0		LFM	
95-63-6	14024	1,2,4 - TRIMETHYLBENZENE	ND	4.3		4	ug/L	**108**	**NA**	70-130	**NA**	0-0		LFM	
96-12-8	14024	1,2-DIBROMO-3-CHLOROPROPANE	ND	4.9		4	ug/L	**123**	**NA**	70-130	**NA**	0-0		LFM	
541-73-1	14024	1,3 - DICHLOROBENZENE (meta)	ND	4.2		4	ug/L	**105**	**NA**	70-130	**NA**	0-0		LFM	
142-28-9	14024	1,3 - DICHLOROPROPANE	ND	4.3		4	ug/L	**108**	**NA**	70-130	**NA**	0-0		LFM	
108-67-8	14024	1,3,5 - TRIMETHYLBENZENE	ND	4.2		4	ug/L	**105**	**NA**	70-130	**NA**	0-0		LFM	
106-46-7	14024	1,4 - DICHLOROBENZENE (para)	ND	4.6		4	ug/L	**115**	**NA**	70-130	**NA**	0-0		LFM	
594-20-7	14024	2,2 - DICHLOROPROPANE	ND	4.7		4	ug/L	**118**	**NA**	70-130	**NA**	0-0		LFM	
71-43-2	14024	BENZENE	ND	4.5		4	ug/L	**113**	**NA**	70-130	**NA**	0-0		LFM	
108-86-1	14024	BROMOBENZENE	ND	4.4		4	ug/L	**110**	**NA**	70-130	**NA**	0-0		LFM	
74-97-5	14024	BROMOCHLOROMETHANE	ND	4.0		4	ug/L	**100**	**NA**	70-130	**NA**	0-0		LFM	
75-27-4	14024	BROMODICHLOROMETHANE	ND	4.1		4	ug/L	**103**	**NA**	70-130	**NA**	0-0		LFM	
75-25-2	14024	BROMOFORM	ND	4.1		4	ug/L	**103**	**NA**	70-130	**NA**	0-0		LFM	
74-83-9	14024	BROMOMETHANE	ND	4.4		4	ug/L	**110**	**NA**	70-130	**NA**	0-0		LFM	

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Only Duplicate sample with detections are listed in this report

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Reference Number: 20-07137
Report Date: 4/7/2020

Batch/CAS	Sample	Analyte	Result	Spike Result	Duplicate Spike Result	Spike Conc	Units	Percent Recovery MS	Percent Recovery MSD	Limits*	%RPD	Limits*	QC Qualifier	Type	Comments
56-23-5	14024	CARBON TETRACHLORIDE	ND	4.8		4	ug/L	**120**	**NA**	70-130	**NA**	0-0		LFM	
108-90-7	14024	CHLOROBENZENE	ND	4.3		4	ug/L	**108**	**NA**	70-130	**NA**	0-0		LFM	
75-00-3	14024	CHLOROETHANE	ND	4.4		4	ug/L	**110**	**NA**	70-130	**NA**	0-0		LFM	
67-66-3	14024	CHLOROFORM	0.5	4.8		4	ug/L	**108**	**NA**	70-130	**NA**	0-0		LFM	
74-87-3	14024	CHLOROMETHANE	ND	5.5		4	ug/L	**138**	**NA**	70-130	**NA**	0-0	HR	LFM	
156-59-2	14024	CIS - 1,2 - DICHLOROETHENE	ND	4.3		4	ug/L	**108**	**NA**	70-130	**NA**	0-0		LFM	
10061-01-5	14024	CIS - 1,3 - DICHLOROPROPENE	ND	4.4		4	ug/L	**110**	**NA**	70-130	**NA**	0-0		LFM	
124-48-1	14024	DIBROMOCHLOROMETHANE	ND	4.4		4	ug/L	**110**	**NA**	70-130	**NA**	0-0		LFM	
74-95-3	14024	DIBROMOMETHANE	ND	4.1		4	ug/L	**103**	**NA**	70-130	**NA**	0-0		LFM	
75-71-8	14024	DICHLORODIFLUOROMETHANE	ND	2.9		4	ug/L	**73**	**NA**	70-130	**NA**	0-0		LFM	
100-41-4	14024	ETHYLBENZENE	ND	4.7		4	ug/L	**118**	**NA**	70-130	**NA**	0-0		LFM	
87-68-3	14024	HEXACHLOROBUTADIENE	ND	4.5		4	ug/L	**113**	**NA**	70-130	**NA**	0-0		LFM	
98-82-8	14024	ISOPROPYLBENZENE	ND	4.6		4	ug/L	**115**	**NA**	70-130	**NA**	0-0		LFM	
1330-20-7	14024	M,P- XYLENE	ND	9.2		8	ug/L	**115**	**NA**	70-130	**NA**	0-0		LFM	
1634-04-4	14024	METHYL TERT-BUTYL ETHER	ND	4.2		4	ug/L	**105**	**NA**	70-130	**NA**	0-0		LFM	
75-09-2	14024	METHYLENE CHLORIDE	ND	3.9		4	ug/L	**98**	**NA**	70-130	**NA**	0-0		LFM	
104-51-8	14024	N - BUTYLBENZENE	ND	4.3		4	ug/L	**108**	**NA**	70-130	**NA**	0-0		LFM	
103-65-1	14024	N - PROPYLBENZENE	ND	4.3		4	ug/L	**108**	**NA**	70-130	**NA**	0-0		LFM	
91-20-3	14024	NAPHTHALENE	ND	4.2		4	ug/L	**105**	**NA**	70-130	**NA**	0-0		LFM	
95-49-8	14024	O - CHLOROTOLUENE	ND	4.8		4	ug/L	**120**	**NA**	70-130	**NA**	0-0		LFM	
95-47-6	14024	O - XYLENE	ND	4.4		4	ug/L	**110**	**NA**	70-130	**NA**	0-0		LFM	
106-43-4	14024	P - CHLOROTOLUENE	ND	4.5		4	ug/L	**113**	**NA**	70-130	**NA**	0-0		LFM	
99-87-6	14024	P - ISOPROPYLTOLUENE	ND	4.4		4	ug/L	**110**	**NA**	70-130	**NA**	0-0		LFM	
135-98-8	14024	SEC - BUTYLBENZENE	ND	4.5		4	ug/L	**113**	**NA**	70-130	**NA**	0-0		LFM	
100-42-5	14024	STYRENE	ND	2.2		4	ug/L	**55**	**NA**	70-130	**NA**	0-0	m4	LFM	
98-06-6	14024	TERT - BUTYLBENZENE	ND	4.6		4	ug/L	**115**	**NA**	70-130	**NA**	0-0		LFM	
127-18-4	14024	TETRACHLOROETHYLENE	ND	4.6		4	ug/L	**115**	**NA**	70-130	**NA**	0-0		LFM	
108-88-3	14024	TOLUENE	ND	4.6		4	ug/L	**115**	**NA**	70-130	**NA**	0-0		LFM	
156-60-5	14024	TRANS - 1,2 - DICHLOROETHENE	ND	4.5		4	ug/L	**113**	**NA**	70-130	**NA**	0-0		LFM	
10061-02-6	14024	TRANS - 1,3 - DICHLOROPROPENE	ND	4.4		4	ug/L	**110**	**NA**	70-130	**NA**	0-0		LFM	
79-01-6	14024	TRICHLOROETHENE	ND	4.4		4	ug/L	**110**	**NA**	70-130	**NA**	0-0		LFM	
75-69-4	14024	TRICHLOROFLUOROMETHANE	ND	4.2		4	ug/L	**105**	**NA**	70-130	**NA**	0-0		LFM	
75-01-4	14024	VINYL CHLORIDE	ND	5.2		4	ug/L	**130**	**NA**	70-130	**NA**	0-0		LFM	

COD_200304

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Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QC Dependent.rpt

Reference Number: 20-07137
Report Date: 4/7/2020

Batch/CAS	Sample	Analyte	Result	Spike Result	Duplicate Spike Result	Spike Conc	Units	Percent Recovery MS	Percent Recovery MSD	Limits*	%RPD	Limits*	QC Qualifier	Type	Comments
E-10117	14245	CHEMICAL OXYGEN DEMAND	86	131	133	50	mg/L	**90**	**94**	70-130	**4.3**	0-20		LFM	
E-10117	14246	CHEMICAL OXYGEN DEMAND	47	97	98	50	mg/L	**100**	**102**	70-130	**2.0**	0-20		LFM	
IC02_200228A															
16887-00-6	13963	CHLORIDE	4.3	5.2		1	mg/L	**90**		90-110	**NA**	0-20		LFM	
14797-55-8	13963	NITRATE-N	1.14	2.12		1	mg/L	**98**		90-110	**NA**	0-20		LFM	
14797-65-0	13963	NITRITE-N	ND	0.99		1	mg/L	**99**		90-110	**NA**	0-20		LFM	
14808-79-8	13963	SULFATE	7.2	9.1		2	mg/L	**95**		90-110	**NA**	0-20		LFM	
16887-00-6	14031	CHLORIDE	7.8	8.7		1	mg/L	**90**		90-110	**NA**	0-20		LFM	
14797-55-8	14031	NITRATE-N	1.47	2.52		1	mg/L	**105**		90-110	**NA**	0-20		LFM	
16887-00-6	14085	CHLORIDE	91.2	90.7		1	mg/L	**-50**		90-110	**NA**	0-20	IS	LFM	
14808-79-8	14085	SULFATE	27.7	29.1		2	mg/L	**70**		90-110	**NA**	0-20	IS	LFM	
PAH_W200306															
208-96-8	14022	ACENAPHTHYLENE	ND	9.6		10	ug/L	**96**	**NA**	33-145	**NA**	0-60		LFM	
83-32-9	14022	ACENAPTHENE	ND	9.5		10	ug/L	**95**	**NA**	47-145	**NA**	0-60		LFM	
120-12-7	14022	ANTHRACENE	ND	9.5		10	ug/L	**95**	**NA**	27-133	**NA**	0-60		LFM	
56-55-3	14022	BENZ[A]ANTHRACENE	ND	9.6		10	ug/L	**96**	**NA**	33-143	**NA**	0-60		LFM	
50-32-8	14022	BENZO[A]PYRENE	ND	9.6		10	ug/L	**96**	**NA**	17-163	**NA**	0-60		LFM	
205-99-2	14022	BENZO[B]FLUORANTHENE	ND	10.3		10	ug/L	**103**	**NA**	24-159	**NA**	0-60		LFM	
191-24-2	14022	BENZO[G,H,I]PERYLENE	ND	11.4		10	ug/L	**114**	**NA**	1-219	**NA**	0-60		LFM	
207-08-9	14022	BENZO[K]FLUORANTHENE	ND	10.0		10	ug/L	**100**	**NA**	11-162	**NA**	0-60		LFM	
218-01-9	14022	CHRYSENE	ND	5.4		10	ug/L	**54**	**NA**	17-168	**NA**	0-60		LFM	
53-70-3	14022	DIBENZ[A,H]ANTHRACENE	ND	5.9		10	ug/L	**59**	**NA**	1-227	**NA**	0-60		LFM	
206-44-0	14022	FLUORANTHENE	ND	10.0		10	ug/L	**100**	**NA**	26-137	**NA**	0-60		LFM	
86-73-7	14022	FLUORENE	ND	10.3		10	ug/L	**103**	**NA**	59-121	**NA**	0-60		LFM	
193-39-5	14022	INDENO[1,2,3,C,D]PYRENE	ND	10.8		10	ug/L	**108**	**NA**	1-171	**NA**	0-60		LFM	
91-20-3	14022	NAPHTHALENE	ND	9.3		10	ug/L	**93**	**NA**	21-133	**NA**	0-60		LFM	
85-01-8	14022	PHENANTHRENE	ND	9.6		10	ug/L	**96**	**NA**	54-120	**NA**	0-60		LFM	
129-00-0	14022	PYRENE	ND	9.9		10	ug/L	**99**	**NA**	52-115	**NA**	0-60		LFM	
TOC_200229A															
E-10195	12432	TOTAL ORGANIC CARBON	0.28	3.95		4.00	mg/L	**92**		70-130	**NA**	0-20		LFM	
E-10195	12897	TOTAL ORGANIC CARBON	ND	3.78		4.00	mg/L	**95**		70-130	**NA**	0-20		LFM	
E-10195	13093	TOTAL ORGANIC CARBON	1.70	5.32		4.00	mg/L	**91**		70-130	**NA**	0-20		LFM	
E-10195	13533	TOTAL ORGANIC CARBON	0.59	4.21		4.00	mg/L	**91**		70-130	**NA**	0-20		LFM	

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FORM: QC Dependent.rpt

QUALITY CONTROL REPORT
SURROGATE REPORT

Reference Number: 20-07137
Report Date: 04/07/20

Lab No	Analyte	Result	Qualifier	Units	Method	Limit
8260SIM_200313						
14021	d8-TOLUENE (Surr)	86		%	8260SIM	
8260W_200312						
14021	1,2 - DICHLOROETHANE-d4 (SURR)	101		%	8260C	Acceptance Range is 70-130%
	1,4 - DIFLUOROBENZENE-d4 (Surr)	100		%		
	4-BROMOFLUOROBENZENE (Surr)	98		%		Acceptance Range is 70-130%
	d8-TOLUENE (Surr)	102		%		Acceptance Range is 70-130%
8260W_200312						
14021	4-BROMOFLUOROBENZENE (Surr)	98		%	8260C	Acceptance Range is 70-130%
	d8-TOLUENE (Surr)	102		%		Acceptance Range: 50-150%
DXW_200310						
14021	O-TERPHENYL	83		%	NWTPH-Dx	Acceptance Limits: 50-150%
PAH_W200306						
14021	2 - FLUOROBIPHENYL (Surr)	76		%	8270D	
	p-TERPHENYL-d14 (SURR)	70		%		
	d5-NITROBENZENE (Surr)	82		%		
8260SIM_200313						
14022	d8-TOLUENE (Surr)	86		%	8260SIM	
8260W_200312						
14022	1,2 - DICHLOROETHANE-d4 (SURR)	104		%	8260C	Acceptance Range is 70-130%
	1,4 - DIFLUOROBENZENE-d4 (Surr)	100		%		
	4-BROMOFLUOROBENZENE (Surr)	104		%		Acceptance Range is 70-130%
	d8-TOLUENE (Surr)	105		%		Acceptance Range is 70-130%
8260W_200312						
14022	4-BROMOFLUOROBENZENE (Surr)	104		%	8260C	Acceptance Range is 70-130%
	d8-TOLUENE (Surr)	105		%		Acceptance Range: 50-150%
DXW_200310						
14022	O-TERPHENYL	93		%	NWTPH-Dx	Acceptance Limits: 50-150%
PAH_W200306						
14022	2 - FLUOROBIPHENYL (Surr)	87		%	8270D	
	p-TERPHENYL-d14 (SURR)	84		%		
	d5-NITROBENZENE (Surr)	94		%		
8260SIM_200313						
14023	d8-TOLUENE (Surr)	86		%	8260SIM	
8260W_200312						
14023	1,2 - DICHLOROETHANE-d4 (SURR)	102		%	8260C	Acceptance Range is 70-130%
	1,4 - DIFLUOROBENZENE-d4 (Surr)	100		%		
	4-BROMOFLUOROBENZENE (Surr)	96		%		Acceptance Range is 70-130%
	d8-TOLUENE (Surr)	102		%		Acceptance Range is 70-130%
8260W_200312						
14023	4-BROMOFLUOROBENZENE (Surr)	96		%	8260C	Acceptance Range is 70-130%
	d8-TOLUENE (Surr)	102		%		Acceptance Range: 50-150%
DXW_200310						
14023	O-TERPHENYL	82		%	NWTPH-Dx	Acceptance Limits: 50-150%
PAH_W200306						
14023	2 - FLUOROBIPHENYL (Surr)	84		%	8270D	
	p-TERPHENYL-d14 (SURR)	79		%		
	d5-NITROBENZENE (Surr)	90		%		
8260W_200312						
14024	1,2 - DICHLOROETHANE-d4 (SURR)	107		%	8260C	Acceptance Range is 70-130%
	1,4 - DIFLUOROBENZENE-d4 (Surr)	99		%		

*Notation:

A surrogate is a pure compound added to a sample in the laboratory just before processing so that the overall efficiency of a meA surrogate is a pure compound added to a sample in the la

The Acceptance Limits (or Control Limits) approximate a 99% confidence interval around the mean recovery.

QUALITY CONTROL REPORT
SURROGATE REPORT

Reference Number: 20-07137
Report Date: 04/07/20

Lab No	Analyte	Result	Qualifier	Units	Method	Limit
14024	4-BROMOFLUOROBENZENE (Surr)	101		%	8260C	Acceptance Range is 70-130%
	d8-TOLUENE (Surr)	102		%		Acceptance Range is 70-130%

*Notation:

A surrogate is a pure compound added to a sample in the laboratory just before processing so that the overall efficiency of a meA surrogate is a pure compound added to a sample in the la

The Acceptance Limits (or Control Limits) approximate a 99% confidence interval around the mean recovery.

Qualifier Definitions

Reference Number: 20-07137
Report Date: 04/07/20

Qualifier	Definition
HR	High QCS recovery due to increased detector response No sample dectections, therefore, no further action taken for this analysis set.
IEV	Acceptance criteria do not apply to estimated values
INH	The sample was non-homogeneous
IS	The ratio of the spike concentration to sample background was too low to meet performance criteria
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
LR	Low recovery can not be accounted for. However, there is adequate sensitivity to detect the compound at the MRL. No sample detections so no further action for this analysis batch.
m4	The matrix spike shows a matrix affect biased low for recovery. The Laboratory Fortified Blank was within acceptable limits.

Note: Some qualifier definitions found on this page may pertain to results or QC data which are not printed with this report.

Chain of Custody / Analysis Request (Please complete all applicable shaded sections)

20-07137
14021 - 14024

EDGE ANALYTICAL

Main Lab (800-755-9295)
1620 South Walnut St. Burlington, WA 98233
Microbiology (888-725-1212)
805 W. Orchard Dr. Suite 4 Bellingham, WA 98225
Wilsonville Lab (503-682-7802)
9150 SW Pioneer Ct. Suite W Wilsonville, OR 97070
Corvallis Lab (541-753-4946)
1100 NE Circle Blvd, Ste 130, Corvallis, OR 97330
Bend Lab (541-639-8425)
20332 Empire Ave Ste F4, Bend, OR 97703

Report to:	Skagit County Public Health	Bill to:	Britt - Skagit Co. Public Health SKA46
Ship Address:	700 South Second Street, Room 301	Address:	700 South Second St. Rm301
City:	Mount Vernon St: WA Zip: 98273	City:	Mount Vernon St: WA Zip: 98273
Attn:	BRITT PFAFF-DUNTON	Phone:	360-416-1500 FAX:
Phone:	360.416-1500 FAX:	P.O.#:	Attn: Britt
Email:	dpatrick@co.skagit.wa.us	☐ Visa ☐ M/C ☐ A/E	Expires /
Project	A Avenue	Card#:	

Check Regulatory Program
- ☐ Safe Drinking Water Act
- ☐ Clean Water Act
- ☐ RCRA / CERCLA
- ☒ Other

Instructions
1. Use one line per sample Location.
2. Be specific in analysis requests.
3. *(NEW)* **List each metal individually** *(NEW)*
4. Check off analyses to be performed for each sample Location.
5. Enter number of containers.

Turn Around Time Required
- ☐ Standard
- ☐ Half-time (50% surcharge)
- ☐ Quickest (100% surcharge) Phone Call Req.
- ☐ Emergency (Phone Call Req.)

Analyses Requested

CO043488

	Field ID	Location	Grab/ Comp.	Sample Matrix*	Date	Time	8260	8270 (PAH)	Landfill Package 3 SCPW w/NO GAMMA	NWTPH-Dx	NWTPH-Gx	PP Metals, Fe, Mn, Ba DISSOLVED AND TOTAL	TRIP BLANK (8260)	TRIP BLANK (VOCs)	Number of Containers	Special Instructions Conditions on Receipt
1	S-1	NORTHWEST	✓	SW	2/28/20	1030	X	X	X	X	X	X			17	
2	S-1-D	NORTHWEST	✓	SW	2/28/20	1030	X	X	X	X	X	X			17	
3	S-2	SOUTH EAST	✓	SW	2/28/20	1145	X	X	X	X	X	X			17	
4	S-2-F	SOUTH EAST	✓		2/28/20	1230	X								2	
5	S-2-TB				2/25/20		~~X~~ NWD						X	X	3	
6																
7																
8																
9																

**Are there known hazardous or dangerous wastes in these samples? YES / NO If YES, indicate type on reverse of this form; samples may be returned to you.

Total Containers

Sampled by: BRITT PFAFF-DUNTON DALE PATRICK Phone: 360-416-1535 FAX: Email: BRITTP@CO.SKAGIT.WA.US

Sample Receipt Request (Must include FAX or Email) ☐

* **W** - water **SW** - surface water **WW** - waste water **SL** - salt water **DW** - drinking water **ST** - storm water **S** - soil **OL** - oil Other:

**Relinquished by	Date	Time	Received by	Date	Time
	2/28/20	1315	KEC	2-28-20	1316

	Yes	No	N/A
Custody seals intact	✓		
Sample temp 5.1 C satisfactory	✓		
Samples received intact	✓		
Chain of custody & labels agree	✓		

FORM: COC 6-27-2018

*FILTER FOR DISSOLVED METALS IN LAB

W1

Landfill Package #3 Analyte	Method†	Method Detection Limit	Unit Price
Alkalinity	SM 2320 B, EPA 310.1	5 mg/L	$ 21.00
Ammonia	SM4500-NH3G	0.05 mg/L	$ 11.00
Bicarbonate	SM2320B	5 mg/L	$ -
Chloride	EPA 300	0.5 mg/L	$ 5.00
Chemical Oxygen Demand	SM 5220 D	8 mg/L	$ 21.00
Nitrate-N	EPA 300	0.1 mg/L	$ 5.00
Nitrite-N	EPA 300	0.1 mg/L	$ 5.00
Sulfate	EPA 300	0.2 mg/L	$ 5.00
Total Dissolved Solids	SM 2540 C	10 mg/L	$ 11.00
Total Organic Carbon	SM 5310 B	0.5 mg/L	$ 21.00
Antimony, dissolved	EPA 6020, EPA 200.8	0.001 mg/L	$ 6.00
Arsenic, dissolved	EPA 200.8	0.001 mg/L	$ 6.00
Barium, dissolved	EPA 6020	0.001 mg/L	$ 6.00
Beryllium, dissolved	EPA 6020	0.001 mg/L	$ 6.00
Cadmium, dissolved	EPA 200.8	0.0005 mg/L	$ 6.00
Chromium, dissolved	EPA 6020	0.005 mg/L	$ 6.00
Cobalt, dissolved	EPA 6020	0.001 mg/L	$ 6.00
Copper, dissolved	EPA 6020	0.005 mg/L	$ 6.00
Iron, dissolved	EPA 200.7	0.05 mg/L	$ 5.00
Lead, dissolved	EPA 200.8	0.001 mg/L	$ 6.00
Manganese, dissolved	EPA 200.7	0.005 mg/L	$ 5.00
Mercury, dissolved	EPA 245.1	0.0005 mg/L	$ 18.00
Nickel, dissolved	EPA 6020	0.001 mg/L	$ 6.00
Selenium, dissolved	EPA 6020	0.005 mg/L	$ 6.00
Silver, dissolved	EPA 6020	0.001 mg/L	$ 6.00
Thallium, dissolved	EPA 6020	0.001 mg/L	$ 6.00
Vanadium, dissolved	EPA 6010 B	0.010 mg/L	$ 5.00
Zinc, dissolved	EPA 200.8	0.005 mg/L	$ 6.00
Calcium	EPA 6010 B	0.020 mg/L	$ 5.00
Magnesium	EPA 6010 B	0.5 mg/L	$ 5.00
Potassium	EPA 6010 B	0.5 mg/L	$ 5.00
Sodium	EPA 6010 B	0.025 mg/L	$ 5.00
VOC Package	EPA 8260 B	various	$ 105.00
Low Level VOC Package	EPA 8260B SIM	various	$ 53.00
Gamma Spectral Analysis	901.1		$ 121.00
Total Package Cost with Gamma Spectral Analysis			**$ 521.00**
Total Package Cost without Gamma Spectral Analysis			**$ 400.00**

† As listed or equivalent

3/13/20 SAMPLES

EDGE ANALYTICAL

Burlington, WA *Corporate Laboratory (a)*
1620 S Walnut St - Burlington, WA 98233 - **800.755.9295** • 360.757.1400

Bellingham, WA *Microbiology (b)*
805 Orchard Dr Ste 4 - Bellingham, WA 98225 - 360.715.1212

Portland, OR *Microbiology/Chemistry (c)*
9150 SW Pioneer Ct Ste W - Wilsonville, OR 97070 - 503.682.7802

Corvallis, OR *Microbiology/Chemistry (d)*
1100 NE Circle Blvd, Ste 130 - Corvallis, OR 97330 - 541.753.4946

Bend, OR *Microbiology (e)*
20332 Empire Blvd Ste 4 - Bend, OR 97701 - 541.639.8425

WSDOE Lab C567

DATA REPORT

Client Name: Skagit County Public Health
700 South Second Street, Room 301
Mount Vernon, WA 98273

Reference Number: **20-09144**
Project: 20-07137 SIMS Resamples

Lab Number: 17923
Field ID: S-1-031220
Sample Description: NW
Matrix: Surface Water
Sample Date: 3/12/20
Extraction Date: 3/13/20
Extraction Method: 5030B

Report Date: 4/7/20
Date Analyzed: 3/13/20
Analyst: HY
Analytical Method: 8260SIM
Batch: 8260SIM_200313
Approved By: pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	Lab QL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds								
75-01-4	VINYL CHLORIDE (SIM)	**0.064**		ug/L	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	**ND**		ug/L	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	**ND**		ug/L	0.01	0.0069	1.00	a	
123-91-1	1,4-DIOXANE (SIM)	**ND**		ug/L	5	2.8945	1.00	a	

Notes:

Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.
ND - indicates the compound was not detected above the PQL or MDL.
Lab QL = Laboratory Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
Permit QL = Quantitation Limt required by permit (listed in Appendix A) or other regulatory requirement.
D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.

Form: 8000.rpt

EDGE ANALYTICAL

Burlington, WA *Corporate Laboratory (a)*
1620 S Walnut St - Burlington, WA 98233 - **800.755.9295** • 360.757.1400

Bellingham, WA *Microbiology (b)*
805 Orchard Dr Ste 4 - Bellingham, WA 98225 - 360.715.1212

Portland, OR *Microbiology/Chemistry (c)*
9150 SW Pioneer Ct Ste W - Wilsonville, OR 97070 - 503.682.7802

Corvallis, OR *Microbiology/Chemistry (d)*
1100 NE Circle Blvd, Ste 130 - Corvallis, OR 97330 - 541.753.4946

Bend, OR *Microbiology (e)*
20332 Empire Blvd Ste 4 - Bend, OR 97701 - 541.639.8425

WSDOE Lab C567

DATA REPORT

Client Name: Skagit County Public Health
700 South Second Street, Room 301
Mount Vernon, WA 98273

Reference Number: **20-09144**
Project: 20-07137 SIMS Resamples

Lab Number: 17924
Field ID: S-1-D-031220
Sample Description: NW
Matrix: Surface Water
Sample Date: 3/12/20
Extraction Date: 3/13/20
Extraction Method: 5030B

Report Date: 4/7/20
Date Analyzed: 3/13/20
Analyst: HY
Analytical Method: 8260SIM
Batch: 8260SIM_200313
Approved By: pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	Lab QL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds								
75-01-4	VINYL CHLORIDE (SIM)	**0.071**		ug/L	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	**ND**		ug/L	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	**ND**		ug/L	0.01	0.0069	1.00	a	
123-91-1	1,4-DIOXANE (SIM)	**ND**		ug/L	5	2.8945	1.00	a	

Notes:

Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.
ND - indicates the compound was not detected above the PQL or MDL.
Lab QL = Laboratory Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
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D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.

EDGE ANALYTICAL

Burlington, WA *Corporate Laboratory (a)*
1620 S Walnut St - Burlington, WA 98233 - **800.755.9295** • 360.757.1400

Bellingham, WA *Microbiology (b)*
805 Orchard Dr Ste 4 - Bellingham, WA 98225 - 360.715.1212

Portland, OR *Microbiology/Chemistry (c)*
9150 SW Pioneer Ct Ste W - Wilsonville, OR 97070 - 503.682.7802

Corvallis, OR *Microbiology/Chemistry (d)*
1100 NE Circle Blvd, Ste 130 - Corvallis, OR 97330 - 541.753.4946

Bend, OR *Microbiology (e)*
20332 Empire Blvd Ste 4 - Bend, OR 97701 - 541.639.8425

WSDOE Lab C567

DATA REPORT

Client Name: Skagit County Public Health
700 South Second Street, Room 301
Mount Vernon, WA 98273

Reference Number: **20-09144**
Project: 20-07137 SIMS Resamples

Lab Number: 17925
Field ID: S-2-031220
Sample Description: SE
Matrix: Surface Water
Sample Date: 3/12/20
Extraction Date: 3/13/20
Extraction Method: 5030B

Report Date: 4/7/20
Date Analyzed: 3/13/20
Analyst: HY
Analytical Method: 8260SIM
Batch: 8260SIM_200313
Approved By: pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	Lab QL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds								
75-01-4	VINYL CHLORIDE (SIM)	**ND**		ug/L	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	**ND**		ug/L	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	**ND**		ug/L	0.01	0.0069	1.00	a	
123-91-1	1,4-DIOXANE (SIM)	**19.6**		ug/L	5	2.8945	1.00	a	

Notes:

Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.
ND - indicates the compound was not detected above the PQL or MDL.
Lab QL = Laboratory Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
Permit QL = Quantitation Limt required by permit (listed in Appendix A) or other regulatory requirement.
D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.

QUALITY CONTROL REPORT
SURROGATE REPORT

Reference Number: 20-09144
Report Date: 04/07/20

Lab No	Analyte	Result	Qualifier	Units	Method	Limit
8260SIM_200313 17923	d8-TOLUENE (Surr)	86		%	8260SIM	Acceptance Range is 70-130%
8260SIM_200313 17924	d8-TOLUENE (Surr)	85		%	8260SIM	Acceptance Range is 70-130%
8260SIM_200313 17925	d8-TOLUENE (Surr)	86		%	8260SIM	Acceptance Range is 70-130%

*Notation:

A surrogate is a pure compound added to a sample in the laboratory just before processing so that the overall efficiency of a meA surrogate is a pure compound added to a sample in the la

The Acceptance Limits (or Control Limits) approximate a 99% confidence interval around the mean recovery.

Chain of Custody / Analysis Reques

20-09144
17923 - 17925

...ble shaded sections)

Report to:	Skagit County Public Health	Bill to:	Sk	SKA46	**For Lab Use Only**
Ship Address:	700 South Second Street, Room 30	Address:	700 South Second Street, Room 301		Ref #
City:	Mount Vernor St: WA Zip: 98273	City:	Mount Vernon St: WA Zip: 98273		**Check Regulatory Program**
Attn:	Britt Pfaff-Dunton	Phone:	FAX:		☐ Safe Drinking Water Act
Phone:	360.416-1500 FAX:	P.O.#:	Attn:		☐ Clean Water Act
Email:	dpatrick@co.skagit.wa.us;brittp@co.skagit.wa.us	☐ Visa	☐ M/C ☐ A/E Expires /		☐ RCRA / CERCLA
Project	20-07137 SIMS Resamples - To be ne	Card#:			☐ Other

ANALYTICAL
Main Lab (800-755-9295)
1620 South Walnut St. Burlington, WA 98233
Microbiology (888-725-1212)
805 W. Orchard Dr. Suite 4 Bellingham, WA 98225
Wilsonville Lab (503-682-7802)
9150 SW Pioneer Ct. Suite W Wilsonville, OR 97070
Corvallis Lab (541-753-4946)
1100 NE Circle Blvd, Ste 130, Corvallis, OR 97330
Bend Lab (541-639-8425)
20332 Empire Ave Ste F4, Bend, OR 97703

Instructions

1. Use one line per sample Location.
2. Be specific in analysis requests.
3. *(NEW)* **List each metal individually** *(NEW)*
4. Check off analyses to be performed for each sample Location.
5. Enter number of containers.

Turn Around Time Required

- ☒ Standard
- ☐ Half-time (50% surcharge)
- ☐ Quickest (100% surcharge) Phone Call Req.
- ☐ Emergency (Phone Call Req.)

Analyses Requested

CO043657

	Field ID	Location	Grab/ Comp.	Sample Matrix*	Date	Time	8260 SIM	TRIP BLANK (8260 SIM)							Number of Containers
1	S-1-031220	NW	X	SW	3/12/20	1150	X	X							
2	S-1-D-031220	NW	X	SW	3/12/20	1150	X	X							
3	S-2-031220	SE	X	SW	3/12/20	1205	X	X							
4															
5															
6															
7															
8															
9															

Special Instructions Conditions on Receipt

Run at NO CHARGE per Ben. -MME

****Are there known hazardous or dangerous wastes in these samples? YES / NO If YES, indicate type on reverse of this form; samples may be returned to you.**

Total Containers

Sampled by: DALE PATRICK Phone: 360-416-1500 FAX: Email:

Sample Receipt Request (Must include FAX or Email) ☐

* **W** - water **SW** - surface water **WW** - waste water **SL** - salt water
DW - drinking water **ST** - storm water **S** - soil **OL** - oil Other:

****Relinquished by**	Date	Time	Received by	Date	Time
	3/12/20	1303	KEC	3-12-20	1303

	Yes	No	N/A
Custody seals intact	☐	☐	✓
Sample temp 4.1 °C satisfactory	✓	☐	☐
Samples received intact	✓	☐	
Chain of custody & labels agree	✓	☐	

FORM: COC 6-27-2018

W1