WSP GROUNDWATER MONITORING REPORT
MAY 23 & 24, 2023

Under Agreed Order No. DE 13229, WSP is required to conduct groundwater monitoring to assess performance of the cleanup action in accordance with the Compliance Monitoring Plan approved by Ecology.

On May 23-24, 2023, groundwater monitoring well testing was conducted at the Washington State Penitentiary Landfill site by Sandra Treccani, Site Manager for the Department of Ecology and Darin Klein, Dean Smith, and Kelly Fulbright, representatives for the Department of Corrections. The weather was fair, mid-fifties to upper sixties, with a light breeze.

Six monitoring wells, MW-3, MW-5, MW-9, MW-11, MW-12, and MW-14 were chosen and approved by Ecology for testing. Groundwater levels were measured and noted on the attached field logs, as were the water quality parameters. Water parameters were obtained using a YSI Pro DSS Multiparameter Sampling Instrument.

A Geotech, Geocontrol PRO submersible bladder pump with dedicated bladders and tubing, was used for groundwater purging and sampling. The pump was decontaminated between monitoring wells with Liquinox and rinsed in distilled water. A new bladder was used at each well.

Water samples were sent to eurofins Environmental Testing for analysis of **Tetrachloroethene (PCE), Manganese,** and **Nitrate.** Due to holding time restrictions, samples were also sent to RJ Lee Group for analysis of **Hexavalent Chromium, Total Chromium,** and **Manganese.**

The samples sent to eurofins arrived within 24 hours but were outside the required temperature of ≤ 6°C. Due to malfunctioning lab equipment, the samples for **Nitrate** were processed beyond the specified holding time.

All contaminates were below the cleanup levels, except **NITRATES** in monitoring wells MW-3, MW-11, MW-12, and MW-14. Nitrates increased by 2 ug/L in 3 of the four wells with a significant decrease in MW-12.

11-29-2023

Dean Smith
Environmental Specialist
Washington State Department of Corrections
(509) 386-0388

ANALYTICAL RESULTS

Site Clean Up Levels			48	2240	5	2240	10
		ug/L	ug/L	ug/L	ug/L	ug/L	mg/L
Monitoring Well ID	Sample Collection Date	Hex Chrome	Total Chrome	RJ Lee Group Maganese	PCE	Eurofins Maganese	Nitrate
MW-3	5/24/2023	<PQL	2.24	6.08	ND	ND	26
MW-5	5/23/2023	<PQL	4.11	11.23	0.9	8.1	1.8
MW-9	5/24/2023	<PQL	15.24	765.2	ND	180	10
MW-11	5/23/2023	<PQL	5.67	224.3	0.71	62	24
MW-12	5/23/2023	<PQL	1.32	2.2	ND	ND	27
MW-14	5/24/2023	<PQL	1.47	2.3	ND	5.2	24

MW-3 Duplicate		<PQL	1.1	2.07	ND	ND	26

FAINAL WATER QUALITY PARAMETERS

Monitoring Well ID	Sample Collection Date	pH	Conductivity	Dissolved Oxygen	Temperature (°C)	Turbidity	ORP
MW-3	5/24/2023	6.77	857	68.4	15	2.01	164.2
MW-5	5/23/2023	7.4	194.5	81.3	19.4	149	179.7
MW-9	5/24/2023	6.92	498.6	97.9	14.9	223.6	156.6
MW-11	5/23/2023	6.89	887	82.3	18.1	94.6	188
MW-12	5/23/2023	6.97	888	86.3	17.3	1.75	178.5
MW-14	5/24/2023	6.74	1046	84.2	16	4.12	168

Hit well bottom.

Well / Water / Pump Depth

Monitoring Well ID	Sample Collection Date	Well	Water	Pump
MW-3	5/24/2023	80'	72.73'	76'
MW-5	5/23/2023	102'	81.63'	93'
MW-9	5/24/2023	90'	83.18'	87'
MW-11	5/23/2023	76'	71.3'	74'
MW-12	5/23/2023	76'	70.8'	74'
MW-14	5/24/2023	74.6'	68.43'	71'

Well Number	MW-3	Date	5-24-2023
Project Name	WSP GW Monitoring	Time On/Off Location	0830
Depth to Water	72.73	Sampled By	D Smith/S Treccani
Depth of Well	80'	Sampling Time	0905
Pump Depth	76'	Sample ID	
Purge Time		Est Purge Volume	
Purge Flow Rate		Actual Purge Volume	

START 8:40
H2O 8:47

Time	pH	Cond	DO	Temp	Turb	ORP
0852	6.77	859	70	15.1	5.18	153.7
0857	6.77	859	68.7	15.1	2.12	161.1
0902	6.77	857	68.4	15	2.01	164.2

FILL 22
DISCH 22
50 PSI

Notes SAMPLE 2

Well Number	MW-5	Date	5-23-2023
Project Name	WSP GW Monitoring	Time On/Off Location	0900
Depth to Water	81.63	Sampled By	D Smith/S Treccani
Depth of Well	102'	Sampling Time	1100
Pump Depth	93	Sample ID	
Purge Time		Est Purge Volume	
Purge Flow Rate		Actual Purge Volume	

Time	pH	Cond	DO	Temp	Turb	ORP
1032	7.65	119.4	108.4	19.7	17.86	163.5
1045	7.45	152	93.1	19.7	49.80	178.3
1052	7.40	194	83.9	19.8	97	179
1057	7.40	194.5	81.3	19.4	149	179.7

Notes SAMPLE 1

1020 PUMP STARTED

FILL 35 40 PSI
DISCH 35

Well Number	MW-9	Date	5-24-2023
Project Name		Time On/Off Location	1053
Depth to Water	83.18	Sampled By	D Smith/S Treccani
Depth of Well	90'	Sampling Time	1130
Pump Depth	87	Sample ID	
Purge Time		Est Purge Volume	
Purge Flow Rate		Actual Purge Volume	

START 1100
H2O 1106

FILL 25
DISCH 25

Time	pH	Cond	DO	Temp	Turb	ORP
1108	6.92	503	103.6	17.5	58.10	169.8
1113	6.90	495.2	98.8	15.2	17.89	172.7
1118	6.91	492	97.8	14.9	8.97	173.9
1123	6.90	492.8	97.6	14.8	571.8	177.3
1128	6.92	498.6	97.9	14.9	223.6	156.6

Notes SAMPLE 6 HIT BOTTOM HI TURB IN SAMPLE

Well Number	MW-11	Date	5-23-2023
Project Name		Time On/Off Location	1153
Depth to Water	71.3	Sampled By	D Smith/S Treccani
Depth of Well	76'	Sampling Time	1234
Pump Depth	74	Sample ID	
Purge Time		Est Purge Volume	
Purge Flow Rate		Actual Purge Volume	

Time	pH	Cond	DO	Temp	Turb	ORP
1215	6.91	893	100	20.1	333	186.3
1223	6.89	895	83.8	18.3	185	185
1230	6.89		82.5	18	100	
1234	6.89	887	82.3	18.1	94.6	188

Notes SAMPLE 4 (HIT WELL BOTTOM)

1210 START PURGE

FILL 25
DISCH 25

Well Number	MW-12	Date	5-23-2023
Project Name		Time On/Off Location	1300 - 1400
Depth to Water	70-8	Sampled By	D Smith/S Treccani
Depth of Well	76'	Sampling Time	1340
Pump Depth	74	Sample ID	
Purge Time		Est Purge Volume	
Purge Flow Rate		Actual Purge Volume	

Time	pH	Cond	DO	Temp	Turb	ORP
1320	6.91	946	91.6	19.4	4.02	168.8
1326	6.94	926	87.2	17.9	3.63	172.5
1332	6.96	898	86.7	17.7	2.40	176.2
1337	6.97	888	86.3	17.3	1.75	178.5

Notes SAMPLE 3 START PUMP 1310 H2O 1316

Well Number	MW-14	Date	5-24-2023
Project Name		Time On/Off Location	0940
Depth to Water	68.43	Sampled By	D Smith/S Treccani
Depth of Well	70' 74.6	Sampling Time	1007
Pump Depth	71	Sample ID	
Purge Time		Est Purge Volume	
Purge Flow Rate		Actual Purge Volume	

Time	pH	Cond	DO	Temp	Turb	ORP
0950	6.72	1042	92	17.2	8.7	110.2
0955	6.71	1047	85.3	16.1	5.57	152
1000	6.73	1045	84.1	16.1	4.86	163.3
1005	6.74	1046	84.2	16.0	4.12	168

Notes SAMPLE 5 START PURGE 0944 H2O 0948

FILL 25
DISCH 25

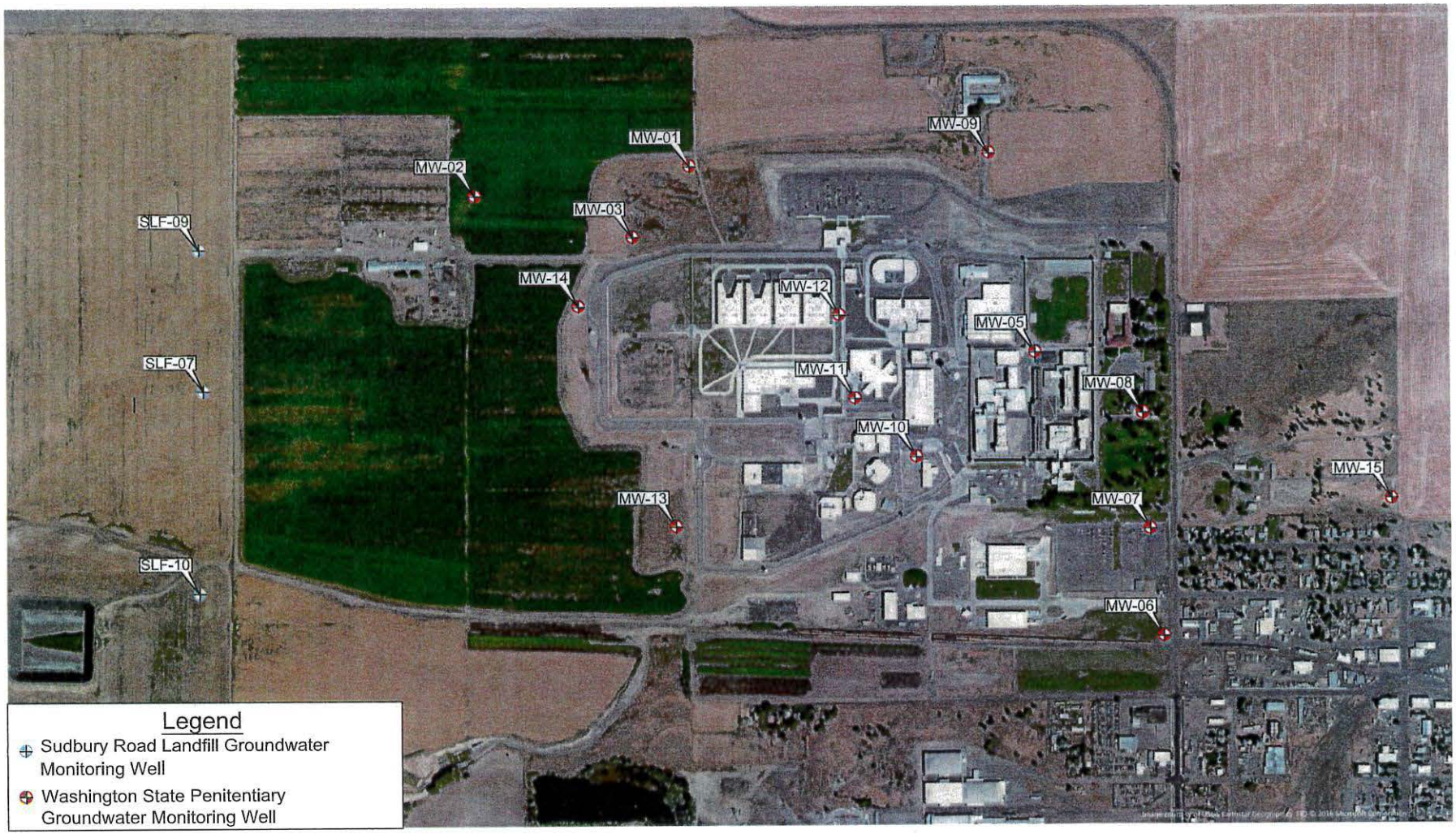
MW-3 DUPLICATE

Well Number	~~SLF-9~~ MW-1A	Date	5-24-2023
Project Name		Time On/Off Location	0830
Depth to Water		Sampled By	D Smith/S Treccani
Depth of Well	~~211'~~	Sampling Time	0905
Pump Depth		Sample ID	LABELED 1230
Purge Time		Est Purge Volume	
Purge Flow Rate		Actual Purge Volume	

Time	pH	Cond	DO	Temp	Turb	ORP

Notes SAMPLE 7

FIELD DUPLICATE


MW-01
MW-02
MW-03
MW-14
MW-12
MW-09
MW-05
MW-11
MW-08
MW-10
MW-15
MW-07
MW-13
MW-06
SLF-09
SLF-07
SLF-10
Legend
Sudbury Road Landfill Groundwater Monitoring Well
Washington State Penitentiary Groundwater Monitoring Well

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The YSI ProDSS is a rugged single or multiparameter water quality instrument designed for use in applications that include surface water, groundwater, coastal, and agriculture. The ProDSS features optional user-replaceable digital smart sensors that are automatically recognized when connected to the instrument. The optional GPS function, a broad range of sensors, and varying cable options allow for complete customization of the ProDSS.

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- 3-year handheld instrument warranty
- 2-year cable assembly and sensor warranty
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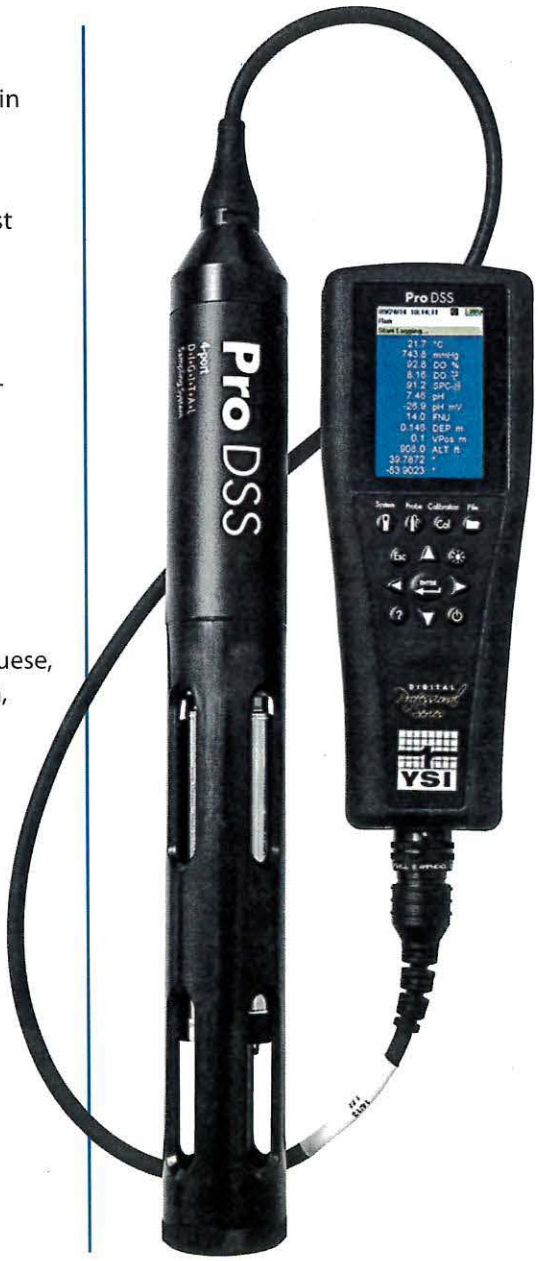
- 6-month ammonium, nitrate, and chloride sensor warranty



SENSOR OPTIONS

- Optical Dissolved Oxygen (ODO) & Temperature
- Optical Dissolved Oxygen (ODO) & Conductivity
- Turbidity
- Conductivity & Temperature
- pH
- pH/ORP
- Nitrate
- Chloride
- Total Algae (Fresh Water)
- Total Algae (Salt Water)
- Depth
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RJ LEE GROUP

RJ Lee Group, Inc. | Columbia Basin Analytical Laboratories
2710 North 20th Avenue, Pasco WA 99301
Tel: (509) 792-1955 | Fax: (509) 792-1934

WA State Penitentiary
1313 N 13th Avenue
Walla Walla, WA 99362
SDG Number:

06/06/23
Contract: 310PO2315942

Subject: Chemical Analysis Report:

Columbia Basin Analytical Laboratories received 6 sample(s) on 05/23/23 for analysis. These sample(s) have been assigned a login order number of W305183. Enclosed is the final report that consists of a summary report of the sample(s), and a copy of the chain of custody. If provided by customer on COC, sample volume is recorded on the laboratory report and has been used to calculate final results.

General Lab Comments

The results provided in this report relate only to the items tested. Sample(s) were received in acceptable conditions unless otherwise noted in the comments above. Sample(s) have not been field blank corrected unless otherwise noted in the general set comments above. Results included in the report apply to the sample as it was received. Information provided by customer can affect validity of results. The sample(s) were prepared and analyzed in compliance with EPA 6020B and EPA 7196A accordingly. This test report shall not be reproduced, except in full, without written approval of Columbia BasinAnalytical Laboratories. Any questions, please contact our office.

Release of the data contained in the hard copy report has been authorized by the Laboratory Director or a designee as verified by the folowing signature.

MAY 23

MW-5
MW-11
MW-12

06/06/23

Chemist I Sam Sears

If you have any questions please feel free to contact Sam Sears at SSears@rjleegroup.com or 509-792-1955.

This report has been reviewed and approved by the following individual:

06/06/23

Project Manager JJ Furlong

RJ LEE GROUP

Dean Smith
WA State Penitentiary

1313 N 13th Avenue
Walla Walla, WA 99362
Client Project: Chrome

Laboratory Report

RJ Lee Group No.: W305183
COC No:

Samples Received: 05/23/23 16:00
Analysis/Prep Date: 05/24/23 09:54
Report Date: 06/06/23 17:20

Sample Name: MW-5 **Batch No:** BE30116 **Date Sampled:** 05/23/23 11:00
RJ Lee Grp. ID: W305183-01 **Matrix:** Non-Potable Water **Date Analyzed:** 05/24/23 09:54

Analyte	Method	Result (µg/L)	PQL (µg/L)	Dilution Factor	Qualifiers
Hexavalent Chromium	EPA 7196A	< 5.00	5.00	1	U

Sample Name: MW-5 **Batch No:** BE30121 **Date Sampled:** 05/23/23 11:00
RJ Lee Grp. ID: W305183-02 **Matrix:** Non-Potable Water **Date Analyzed:** 06/05/23 14:07

Analyte	Method	Result (µg/L)	PQL (µg/L)	Dilution Factor	Qualifiers
Chromium	EPA 6020B	4.11	1.00	1	
Manganese	EPA 6020B	11.23	1.00	1	

Sample Name: MW-11 **Batch No:** BE30116 **Date Sampled:** 05/23/23 12:34
RJ Lee Grp. ID: W305183-03 **Matrix:** Non-Potable Water **Date Analyzed:** 05/24/23 09:54

Analyte	Method	Result (µg/L)	PQL (µg/L)	Dilution Factor	Qualifiers
Hexavalent Chromium	EPA 7196A	< 5.00	5.00	1	U

Sample Name: MW-11 **Batch No:** BE30121 **Date Sampled:** 05/23/23 12:34
RJ Lee Grp. ID: W305183-04 **Matrix:** Non-Potable Water **Date Analyzed:** 06/05/23 14:08

Analyte	Method	Result (µg/L)	PQL (µg/L)	Dilution Factor	Qualifiers
Chromium	EPA 6020B	5.67	1.00	1	
Manganese	EPA 6020B	224.3	1.00	1	

Sample Name: MW-12 **Batch No:** BE30116 **Date Sampled:** 05/23/23 13:40
RJ Lee Grp. ID: W305183-05 **Matrix:** Non-Potable Water **Date Analyzed:** 05/24/23 09:54

Analyte	Method	Result (µg/L)	PQL (µg/L)	Dilution Factor	Qualifiers
Hexavalent Chromium	EPA 7196A	< 5.00	5.00	1	U

RJ LEE GROUP

Sample Name: MW-12 **Batch No:** BE30121 **Date Sampled:** 05/23/23 13:40
RJ Lee Grp. ID: W305183-06 **Matrix:** Non-Potable Water **Date Analyzed:** 06/05/23 14:10

Analyte	Method	Result (µg/L)	PQL (µg/L)	Dilution Factor	Qualifiers
Chromium	EPA 6020B	1.32	1.00	1	
Manganese	EPA 6020B	2.20	1.00	1	

RJ LEE GROUP

Dean Smith
WA State Penitentiary

1313 N 13th Avenue
Walla Walla, WA 99362
Client Project: Chrome

Quality Control

RJ Lee Group No.: W305183
COC No.:
Samples Received: 05/23/23 16:00
Analysis/Prep Date: 05/24/23 09:51
Report Date: 06/06/23 17:20

Analyte	CAS NO.	QC Sample ID	Expected µg/L	Result µg/L	RPD	% REC	Recovery Limits	Qualifier & Comments
Hexavalent Chromium	18540-29-9	LRB	<5.00	<5.00				U
Hexavalent Chromium	18540-29-9	LCS	250.00	252.00		101	85 - 115	
Hexavalent Chromium	18540-29-9	RL	5.00	4.96		99.2	70 - 130	B
Hexavalent Chromium	18540-29-9	MS	51.96	54.50		109	85 - 115	W305183-01
Hexavalent Chromium	18540-29-9	MSD	51.96	52.20	4.20	104	85 - 115	W305183-01
Chromium	7440-47-3	LRB	<1.00	<1.00				
Manganese	7439-96-5	LRB	<1.00	<1.00				
Chromium	7440-47-3	LCS	100.00	101.00		101	85 - 115	
Manganese	7439-96-5	LCS	100.00	102.00		102	85 - 115	
Chromium	7440-47-3	DUP	<1.00	1.56	16.5			W305183-06
Manganese	7439-96-5	DUP	<1.00	2.06	6.35			W305183-06
Chromium	7440-47-3	MRL	1.00	1.07		107	70 - 130	
Manganese	7439-96-5	MRL	1.00	1.08		108	70 - 130	
Chromium	7440-47-3	MS	51.32	52.50		102	85 - 115	W305183-06
Manganese	7439-96-5	MS	52.20	52.40		100	85 - 115	W305183-06

Report Qualifiers:

A = Target Analyte media breakthrough suspected
B = Analyte detected in the associated matrix blank
C = Aroclor/pesticide confirmation by GC/MS
D = Analyte analyzed in a dilution
E = The concentration indicated for this analyte is an estimated Value above the calibration range of the instrument
H = Sample holding time not met. Received outside of hold time.
J = Detected but below the MRL. Result is an estimated concentration
L = Sample condition at receipt out of compliance with defined method conditions
N = Specific analyte as a TIC
P = Analyte detected at or above MRL on initial analysis. Analyte detected at greater than 40% RPD on confirmation
R = RPD/RSD outside accepted recovery limits
S = Spike Recovery outside accepted recovery limits
U = Analyte analyzed for but not detected
V = Analyte detected at or above MRL on initial analysis, but below MRL on confirmation
X = The result-specific translation of this qualifier code is provided in the hardcopy data report and/or case narrative.

Chemist I Sam Sears

RJ LEE GROUP

End of Report

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RJ LEE GROUP
DELIVERING SCIENTIFIC RESOLUTION

W305183

RJ LeeGroup, Inc.
Columbia Basin Analytical Laboratories
2710 North 20th Avenue, Pasco, WA 99301
Tel: (509) 792-1955 | Fax: (509) 792-1934

Request for Laboratory Analytical Services
Chain of Custody

CC06004 Rev. 02

Purchase Order No.: | Client Job No.:

Lab Use Only: Project No.: | Client No.:
Date Logged In: | Logged In By:

Report Results To
Name: Dean Smith
Company: WA State Penitentiary
Address: 1313 N 14th Avenue
City, State, Zip: Walla Walla, WA 99362
Phone: (509) 386-0388 Fax:
Call with Verbal Results:
Email Results To: dean.smith@doc1.wa.gov

Send Invoice To
Name: Department of Corrections
Company: WA State DOC Email: docapvendorinvoices@doc1.wa.gov
Address: PO Box 41107
City, State, Zip: Olympia, WA 98504-1107
Phone: (360) 725-8213 Fax:

Special Instructions

Turnaround Request
TAT: 8 hrs 1 day 3 day 5 day 10 day 15 day 20 day

Drinking Water Sample Only
Sample Purpose: Information ☐ Regulatory ☐
System ID No.:
DOH Source No.: 4, 2
Multiple Sources Nos.:
Sample Purpose: A ☐ B ☐ Other ☐

Chemistry Analysis Key
Preservations: Unpres, H_2SO_4, 4°C, HCl, HNO_3, NaOH, Other, Na_2SO_3, Date:____ Time:____
Matrix: WW=Wastewater, SW=Surface Water, GW=Groundwater, DW=Drinking Water, S=Soil/Sludge, O=Oil, E=Extract, X=Other
Container: P=Plastic, G=Glass, W=Wipe, A=Air (filter or tube)

Sample Identification	Sample Description	Sample Date	Sample Time Start	Sample Time Stop	Wipe Area / Air Volume	Hex Chrome 3135B/B	Total Chrome EPA 6020B									Pres Upon Receipt (Y/N)	Preservation	Matrix	Container Type	pH	No. Containers
Sample 1	MW-5	5-23	1100			X	X										N				
Sample 2						X											N				
Sample 3	MW-12		1340			X	X										N				
Sample 4	MW-11		1234			X	X										N				
Sample 5						X											N				
Sample 6						X											N				
Sample 7						X											N				
Sample 8						X											N				

Return on ice. Lab must receive them below 6° C

Chain of Custody
Relinquished By (Signature): Date: 5-23-23 Time: 1600
Relinquished By (Print Name): DEAN SMITH Relinquished To:
Company Name: WSP Method of Shipment:

Chain of Custody
Received By (Signature): Date: 05/23/23 Time: 1600
Received By (Print Name): J.J. Fowler Relinquished To:
Company Name: RJLG Method of Shipment:

Chain of Custody
Relinquished By (Signature): Date: Time:
Relinquished By (Print Name): Relinquished To:
Company Name: Method of Shipment:

Chain of Custody
Received By (Signature): Date: Time:
Received By (Print Name): Relinquished To:
Company Name: Method of Shipment:

RJ LEE GROUP

RJ Lee Group, Inc. | Columbia Basin Analytical Laboratories
2710 North 20th Avenue, Pasco WA 99301
Tel: (509) 792-1955 | Fax: (509) 792-1934

WA State Penitentiary
1313 N 13th Avenue
Walla Walla, WA 99362
SDG Number:

06/06/23
Contract: 310PO2315942

Subject: Chemical Analysis Report:

Columbia Basin Analytical Laboratories received 8 sample(s) on 05/24/23 for analysis. These sample(s) have been assigned a login order number of W305194. Enclosed is the final report that consists of a summary report of the sample(s), and a copy of the chain of custody. If provided by customer on COC, sample volume is recorded on the laboratory report and has been used to calculate final results.

General Lab Comments

The results provided in this report relate only to the items tested. Sample(s) were received in acceptable conditions unless otherwise noted in the comments above. Sample(s) have not been field blank corrected unless otherwise noted in the general set comments above. Results included in the report apply to the sample as it was received. Information provided by customer can affect validity of results. The sample(s) were prepared and analyzed in compliance with EPA 6020B and EPA 7196A accordingly. This test report shall not be reproduced, except in full, without written approval of Columbia BasinAnalytical Laboratories. Any questions, please contact our office.

Release of the data contained in the hard copy report has been authorized by the Laboratory Director or a designee as verified by the folowing signature.

MAY 24
MW-3
MW-14
MW-9
DUP-3

06/06/23

Chemist I Sam Sears

If you have any questions please feel free to contact Sam Sears at SSears@rjleegroup.com or 509-792-1955.

This report has been reviewed and approved by the following individual:

06/06/23

Project Manager JJ Furlong

RJ LEE GROUP

Dean Smith
WA State Penitentiary

1313 N 13th Avenue
Walla Walla, WA 99362
Client Project: Chrome

Laboratory Report

RJ Lee Group No.: W305194
COC No:

Samples Received: 05/24/23 13:33
Analysis/Prep Date: 05/24/23 15:30
Report Date: 06/06/23 17:25

Sample Name: MW-3 **Batch No:** BE30127 **Date Sampled:** 05/24/23 09:05
RJ Lee Grp. ID: W305194-01 **Matrix:** Non-Potable Water **Date Analyzed:** 05/24/23 15:30

Analyte	Method	Result (µg/L)	PQL (µg/L)	Dilution Factor	Qualifiers
Hexavalent Chromium	EPA 7196A	< 5.00	5.00	1	L, U

Sample Name: MW-3 **Batch No:** BE30121 **Date Sampled:** 05/24/23 09:05
RJ Lee Grp. ID: W305194-02 **Matrix:** Non-Potable Water **Date Analyzed:** 06/05/23 14:15

Analyte	Method	Result (µg/L)	PQL (µg/L)	Dilution Factor	Qualifiers
Chromium	EPA 6020B	2.24	1.00	1	
Manganese	EPA 6020B	6.08	1.00	1	

Sample Name: MW-14 **Batch No:** BE30127 **Date Sampled:** 05/24/23 09:40
RJ Lee Grp. ID: W305194-03 **Matrix:** Non-Potable Water **Date Analyzed:** 05/24/23 15:30

Analyte	Method	Result (µg/L)	PQL (µg/L)	Dilution Factor	Qualifiers
Hexavalent Chromium	EPA 7196A	< 5.00	5.00	1	L, U

Sample Name: MW-14 **Batch No:** BE30121 **Date Sampled:** 05/24/23 09:40
RJ Lee Grp. ID: W305194-04 **Matrix:** Non-Potable Water **Date Analyzed:** 06/05/23 14:21

Analyte	Method	Result (µg/L)	PQL (µg/L)	Dilution Factor	Qualifiers
Chromium	EPA 6020B	1.47	1.00	1	
Manganese	EPA 6020B	2.30	1.00	1	

Sample Name: MW-9 **Batch No:** BE30127 **Date Sampled:** 05/24/23 11:30
RJ Lee Grp. ID: W305194-05 **Matrix:** Non-Potable Water **Date Analyzed:** 05/24/23 15:32

Analyte	Method	Result (µg/L)	PQL (µg/L)	Dilution Factor	Qualifiers
Hexavalent Chromium	EPA 7196A	< 5.00	5.00	1	L, U

RJ LEE GROUP

Sample Name: MW-9 **Batch No:** BE30121 **Date Sampled:** 05/24/23 11:30
RJ Lee Grp. ID: W305194-06 **Matrix:** Non-Potable Water **Date Analyzed:** 06/05/23 14:25

Analyte	Method	Result (µg/L)	PQL (µg/L)	Dilution Factor	Qualifiers
Chromium	EPA 6020B	15.24	1.00	1	
Manganese	EPA 6020B	765.2	2.00	2	D

Sample Name: MW-1A **Batch No:** BE30127 **Date Sampled:** 05/24/23 12:30
RJ Lee Grp. ID: W305194-07 **Matrix:** Non-Potable Water **Date Analyzed:** 05/24/23 15:32

Analyte	Method	Result (µg/L)	PQL (µg/L)	Dilution Factor	Qualifiers
Hexavalent Chromium	EPA 7196A	< 5.00	5.00	1	L, U

Sample Name: MW-1A **Batch No:** BE30121 **Date Sampled:** 05/24/23 12:30
RJ Lee Grp. ID: W305194-08 **Matrix:** Non-Potable Water **Date Analyzed:** 06/05/23 14:26

Analyte	Method	Result (µg/L)	PQL (µg/L)	Dilution Factor	Qualifiers
Chromium	EPA 6020B	1.10	1.00	1	
Manganese	EPA 6020B	2.07	1.00	1	

RJ LEE GROUP

Dean Smith
WA State Penitentiary

1313 N 13th Avenue
Walla Walla, WA 99362
Client Project: Chrome

Quality Control

RJ Lee Group No.: W305194
COC No.:
Samples Received: 05/24/23 13:33
Analysis/Prep Date: 06/05/23 14:01
Report Date: 06/06/23 17:25

Analyte	CAS NO.	QC Sample ID	Expected µg/L	Result µg/L	RPD	% REC	Recovery Limits	Qualifier & Comments
Chromium	7440-47-3	LRB	<1.00	<1.00				
Manganese	7439-96-5	LRB	<1.00	<1.00				
Chromium	7440-47-3	LCS	100.00	101.00		101	85 - 115	
Manganese	7439-96-5	LCS	100.00	102.00		102	85 - 115	
Chromium	7440-47-3	DUP	<1.00	1.56	16.5			W305183-06
Manganese	7439-96-5	DUP	<1.00	2.06	6.35			W305183-06
Chromium	7440-47-3	MRL	1.00	1.07		107	70 - 130	
Manganese	7439-96-5	MRL	1.00	1.08		108	70 - 130	
Chromium	7440-47-3	MS	51.32	52.50		102	85 - 115	W305183-06
Manganese	7439-96-5	MS	52.20	52.40		100	85 - 115	W305183-06
Hexavalent Chromium	18540-29-9	LRB	<5.00	<5.00				U
Hexavalent Chromium	18540-29-9	LCS	250.00	257.00		103	85 - 115	
Hexavalent Chromium	18540-29-9	RL	5.00	5.08		102	70 - 130	
Hexavalent Chromium	18540-29-9	MS	50.25	50.70		101	85 - 115	W305188-01
Hexavalent Chromium	18540-29-9	MSD	50.25	51.50	1.59	103	85 - 115	W305188-01

Report Qualifiers:

A = Target Analyte media breakthrough suspected
B = Analyte detected in the associated matrix blank
C = Aroclor/pesticide confirmation by GC/MS
D = Analyte analyzed in a dilution
E = The concentration indicated for this analyte is an estimated Value above the calibration range of the instrument
H = Sample holding time not met. Received outside of hold time.
J = Detected but below the MRL. Result is an estimated concentration
L = Sample condition at receipt out of compliance with defined method conditions
N = Specific analyte as a TIC
P = Analyte detected at or above MRL on initial analysis. Analyte detected at greater than 40% RPD on confirmation
R = RPD/RSD outside accepted recovery limits
S = Spike Recovery outside accepted recovery limits
U = Analyte analyzed for but not detected
V = Analyte detected at or above MRL on initial analysis, but below MRL on confirmation
X = The result-specific translation of this qualifier code is provided in the hardcopy data report and/or case narrative.

Chemist I Sam Sears

RJ LEE GROUP

End of Report

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RJ LEE GROUP
DELIVERING SCIENTIFIC RESOLUTION

RJ LeeGroup, Inc.
Columbia Basin Analytical Laboratories
2710 North 20th Avenue, Pasco, WA 99301
Tel: (509) 752-1999 | Fax: (509) 752-1934

W305194

Request for Laboratory Analytical Services
Chain of Custody

CC06004 Rev. 02

Purchase Order No.: | Client Job No.:

Lab Use Only: Project No.: | Client No.:

Date Logged In: | Logged In By:

Turnaround Request: TAT: 8 hrs 1 day 3 day 5 day 10 day 15 day 20 day

Report Results To:
Name: Dean Smith
Company: WA State Penitentiary
Address: 1313 N 13th Avenue
City, State, Zip: Walla Walla, WA 99362
Phone: (509) 386-0388 Fax:
Call with Verbal Results:
Email Results To: dean.smith@doc1.wa.gov

Drinking Water Sample Only:
Sample Purpose: Information ☐ Regulatory ☐
System ID No.:
DOH Source No.:
Multiple Sources Nos.
Sample Purpose: A ☐ B ☐ Other ☐

Chemistry Analysis Key:
Preservation: Unpres, H_2SO_4, 4°C, HCl, HNO_3, NaOH, Other, Na_2SO_3, Date: Time:
Matrix: WW=Wastewater, SW=Surface Water, GW=Groundwater, DW=Drinking Water, S=Soil/Sludge, O=Oil, E=Excreta, X=Other
Container: P=Plastic, G=Glass, W=Wipe, A=Air (filter or tube)

6.9°C

Send Invoice To:
Name: Department of Corrections
Company: WA State DOC Email: docapvendorinvoices@doc1.wa.gov
Address: PO Box 41107
City, State, Zip: Olympia, WA 98504-1107
Phone: (360) 725-8213 Fax:

Special Instructions:

Sample Identification	Sample Description	Sample Date	Sample Time Start	Sample Time Stop	Wipe Area / Air Volume	Hex Chrome SM3500B	Total Chrome EPA 6020B	Analysis Requested								Pres. Upon Receipt (Y/N)	Preservation	Matrix	Container Type	pH	No. Containers
Sample 1 (NHO3)							X										N				
Sample 2 (NHO3)	MW-3	5-24	0905			X	X	X									N				
Sample 3 (NHO3)							X										N				
Sample 4 (NHO3)							X										N				
Sample 5 (NHO3)	MW-14	5-24	0940			X	X										N				
Sample 6 (NHO3)	MW-9	5-24	1130			X	X										N				
Sample 7 (NHO3)	MW-1A	5-24	1230			X	X										N				
Sample 8 (NHO3)							X										N				
Return on ice. Lab must receive them below 6° C																					
	Preserve upon receipt																				

Chain of Custody:
Relinquished By (Signature): Date: 5-24-23 Time:
Relinquished By (Print Name): D SMITH Relinquished To: S TRECCANI
Company Name: DOC Method of Shipment: HAND

Chain of Custody:
Relinquished By (Signature): Date: 5-24-23 Time:
Relinquished By (Print Name): S TRECCANI Relinquished To: LAB
Company Name: ECY Method of Shipment: HAND

Chain of Custody:
Received By (Signature): Date: Time:
Received By (Print Name): Relinquished To:
Company Name: Method of Shipment:

Chain of Custody:
Received By (Signature): Date: 5/24/23 Time: 1233
Received By (Print Name): ERIN Iseberg Relinquished To:
Company Name: RJLG Method of Shipment:

eurofins | Environment Testing

MAY 23
MW-5
-11
-12

ANALYTICAL REPORT

PREPARED FOR

Attn: Dean Smith
Washington State Dept of Corrections
1313 N 13th Ave - MS#37
Walla Walla, Washington 99362

Generated 6/6/2023 3:14:19 PM

JOB DESCRIPTION

Bi-Annual Monitoring - May

JOB NUMBER

580-127560-1

Eurofins Seattle
5755 8th Street East
Tacoma WA 98424

See page two for job notes and contact information.

my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northwest, LLC Project Manager.

Authorization

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Authorized for release by
Laura Schick, Project Manager
Laura.Schick@et.eurofinsus.com
(253)922-2310

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Job ID: 580-127560-1

Laboratory: Eurofins Seattle

Narrative

Job Narrative
580-127560-1

Receipt
The samples were received on 5/24/2023 9:40 AM. The temperature of the cooler at receipt was 10.3° C.

Receipt Exceptions
The following samples were received at the laboratory outside the required temperature criteria of less than or equal to 6 degrees C: MW-5 (580-127560-1), MW-11 (580-127560-2) and MW-12 (580-127560-3). This did not meet regulatory requirements. The client was contacted and instructed the laboratory to proceed with the analyses.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method 300.0: The following samples were prepared outside of preparation holding time due to being received when the Anions instrument was down. Client requested to proceed with the analysis: MW-5 (580-127560-1), MW-11 (580-127560-2) and MW-12 (580-127560-3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Washington State Dept of Corrections
Project/Site: Bi-Annual Monitoring - May

Job ID: 580-127560-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client: Washington State Dept of Corrections
Project/Site: Bi-Annual Monitoring - May

Job ID: 580-127560-1

Client Sample ID: MW-5
Date Collected: 05/23/23 11:00
Date Received: 05/24/23 09:40

Lab Sample ID: 580-127560-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene (PCE)	0.90	J	1.0	0.41	ug/L			05/25/23 01:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*05/25/23 01:26*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*05/25/23 01:26*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*05/25/23 01:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*05/25/23 01:26*	*1*

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	8.1	J	20	1.7	ug/L		05/25/23 18:02	05/26/23 19:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	1.8	H	0.20	0.030	mg/L			05/26/23 12:55	1

Client: Washington State Dept of Corrections
Project/Site: Bi-Annual Monitoring - May

Job ID: 580-127560-1

Client Sample ID: MW-11
Date Collected: 05/23/23 12:34
Date Received: 05/24/23 09:40

Lab Sample ID: 580-127560-2
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene (PCE)	0.71	J	1.0	0.41	ug/L			05/25/23 01:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 120*		*05/25/23 01:50*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*05/25/23 01:50*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*05/25/23 01:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*		*05/25/23 01:50*	*1*

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	62		20	1.7	ug/L		05/25/23 18:02	05/26/23 19:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	24	H	1.0	0.15	mg/L			05/26/23 15:17	5

Client Sample ID: MW-12
Date Collected: 05/23/23 13:46
Date Received: 05/24/23 09:40

Lab Sample ID: 580-127560-3
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene (PCE)	ND		1.0	0.41	ug/L			05/25/23 02:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*05/25/23 02:14*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*05/25/23 02:14*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 120*		*05/25/23 02:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*80 - 120*		*05/25/23 02:14*	*1*

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		20	1.7	ug/L		05/25/23 18:02	05/26/23 19:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	27	H	1.0	0.15	mg/L			06/01/23 15:23	5

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 580-426964/6
Matrix: Water
Analysis Batch: 426964

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene (PCE)	ND		1.0	0.41	ug/L			05/24/23 17:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*05/24/23 17:26*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*05/24/23 17:26*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*05/24/23 17:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*05/24/23 17:26*	*1*

Lab Sample ID: LCS 580-426964/7
Matrix: Water
Analysis Batch: 426964

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Tetrachloroethene (PCE)			10.0	9.93		ug/L		99	76 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*

Lab Sample ID: LCSD 580-426964/8
Matrix: Water
Analysis Batch: 426964

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Tetrachloroethene (PCE)			10.0	9.87		ug/L		99	76 - 125	1	13

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*105*		*80 - 120*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*97*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*93*		*80 - 120*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 580-427117/22-A
Matrix: Water
Analysis Batch: 427366

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 427117

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		20	1.7	ug/L		05/25/23 18:02	05/26/23 17:37	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 580-427117/23-A
Matrix: Water
Analysis Batch: 427366

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 427117

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	1000	1060		ug/L		106	80 - 120

Lab Sample ID: LCSD 580-427117/24-A
Matrix: Water
Analysis Batch: 427366

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 427117

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Manganese	1000	1030		ug/L		103	80 - 120	3	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 580-427374/3
Matrix: Water
Analysis Batch: 427374

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.20	0.030	mg/L			05/25/23 16:43	1

Lab Sample ID: LCS 580-427374/4
Matrix: Water
Analysis Batch: 427374

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	5.00	4.93		mg/L		99	90 - 110

Lab Sample ID: LCSD 580-427374/5
Matrix: Water
Analysis Batch: 427374

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	5.00	4.91		mg/L		98	90 - 110	0	15

Lab Sample ID: 580-127560-1 MS
Matrix: Water
Analysis Batch: 427374

Client Sample ID: MW-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	1.8	H	5.00	6.66		mg/L		98	90 - 110

Lab Sample ID: 580-127560-1 MSD
Matrix: Water
Analysis Batch: 427374

Client Sample ID: MW-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	1.8	H	5.00	6.66		mg/L		98	90 - 110	0	15

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 580-427897/3
Matrix: Water
Analysis Batch: 427897

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.20	0.030	mg/L			06/01/23 14:48	1

Lab Sample ID: LCS 580-427897/4
Matrix: Water
Analysis Batch: 427897

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	5.00	5.06		mg/L		101	90 - 110

Lab Sample ID: LCSD 580-427897/5
Matrix: Water
Analysis Batch: 427897

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	5.00	5.07		mg/L		101	90 - 110	0	15

Lab Chronicle

Client: Washington State Dept of Corrections
Project/Site: Bi-Annual Monitoring - May

Job ID: 580-127560-1

Client Sample ID: MW-5

Date Collected: 05/23/23 11:00
Date Received: 05/24/23 09:40

Lab Sample ID: 580-127560-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	426964	ITR	EET SEA	05/25/23 01:26
Total Recoverable	Prep	3005A			427117	TMH	EET SEA	05/25/23 18:02
Total Recoverable	Analysis	6010D		1	427366	JLS	EET SEA	05/26/23 19:44
Total/NA	Analysis	300.0		1	427374	CA	EET SEA	05/26/23 12:55

Client Sample ID: MW-11

Date Collected: 05/23/23 12:34
Date Received: 05/24/23 09:40

Lab Sample ID: 580-127560-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	426964	ITR	EET SEA	05/25/23 01:50
Total Recoverable	Prep	3005A			427117	TMH	EET SEA	05/25/23 18:02
Total Recoverable	Analysis	6010D		1	427366	JLS	EET SEA	05/26/23 19:47
Total/NA	Analysis	300.0		5	427374	CA	EET SEA	05/26/23 15:17

Client Sample ID: MW-12

Date Collected: 05/23/23 13:46
Date Received: 05/24/23 09:40

Lab Sample ID: 580-127560-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	426964	ITR	EET SEA	05/25/23 02:14
Total Recoverable	Prep	3005A			427117	TMH	EET SEA	05/25/23 18:02
Total Recoverable	Analysis	6010D		1	427366	JLS	EET SEA	05/26/23 19:50
Total/NA	Analysis	300.0		5	427897	CA	EET SEA	06/01/23 15:23

Laboratory References:

EET SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Washington State Dept of Corrections
Project/Site: Bi-Annual Monitoring - May

Job ID: 580-127560-1

Laboratory: Eurofins Seattle

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
300.0		Water	Nitrate as N

Sample Summary

Client: Washington State Dept of Corrections
Project/Site: Bi-Annual Monitoring - May

Job ID: 580-127560-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-127560-1	MW-5	Water	05/23/23 11:00	05/24/23 09:40
580-127560-2	MW-11	Water	05/23/23 12:34	05/24/23 09:40
580-127560-3	MW-12	Water	05/23/23 13:46	05/24/23 09:40

Eurofins Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310

Chain of Custody Record

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Client Information	Sampler: D SMITH	Lab PM: Schick, Laura	Carrier Tracking No(s):	COC No: 580-55682-17316.1
Client Contact: Dean Smith	Phone: 509 386 0388	E-Mail: Laura.Schick@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Washington State Dept of Corrections	PWSID:			Job #:
Address: 1313 N 13th Ave - MS#37	Due Date Requested:			
City: Walla Walla	TAT Requested (days):			
State, Zip: WA, 99362	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order Requested			
Email: dean.smith@doc.wa.gov	WO #:			
Project Name: Bi-Annual Monitoring - May	Project #: 58019384			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify), Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_48HR - Nitrate only	6010D - Manganese only	8260D - Tetrachloroethene (PCE) only	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	A		
MW-5	5-23-23	1100		Water			X	X	X		
MW-11	5-23-23	1234		Water			X	X	X		
MW-12	5-23-23	1346		Water			X	X	X		
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if
☐ Return To Client ☒ Disposal By

580-127560 Chain of Custody

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date: 5-23-2023	Time: 1500	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
D SMITH	5-23-23 1500	WSH		5/24/23 0940	ET
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		A3 10.3/10.3 SR/Bubbled/IR/DA

Login Sample Receipt Checklist

Client: Washington State Dept of Corrections

Job Number: 580-127560-1

Login Number: 127560
List Number: 1
Creator: Presley, Kim A

List Source: Eurofins Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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May 24
MW-3
MW-9
Dup-3
MW-14

ANALYTICAL REPORT

PREPARED FOR

Attn: Dean Smith
Washington State Dept of Corrections
1313 N 13th Ave - MS#37
Walla Walla, Washington 99362

Generated 6/5/2023 5:34:52 PM

JOB DESCRIPTION

Bi-Annual Monitoring-May

JOB NUMBER

580-127628-1

Eurofins Seattle
5755 8th Street East
Tacoma WA 98424

See page two for job notes and contact information.

my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northwest, LLC Project Manager.

Authorization

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Authorized for release by
Laura Schick, Project Manager
Laura.Schick@et.eurofinsus.com
(253)922-2310

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Job ID: 580-127628-1

Laboratory: Eurofins Seattle

Narrative

Job Narrative
580-127628-1

Receipt
The samples were received on 5/25/2023 9:40 AM. The temperature of the cooler at receipt was 9.1° C.

Receipt Exceptions
The following samples were received at the laboratory outside the required temperature criteria of less than or equal to 6 degrees C: MW-3 (580-127628-1), MW-9 (580-127628-2), MW-14 (580-127628-3) and MW-1A (580-127628-4). This did not meet regulatory requirements. The temperature blank A3 was 9.1/9.1 and the sample containers temp with IR10 was 7.9/8.1. The client was contacted and instructed the laboratory to proceed with the analyses.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): MW-14 (580-127628-3). The container label listed 10:07 for sample time collected, while the COC listed 09:40 for sample time collected. The client instructed the laboratory to use the sample collection time listed on the container label.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method 300.0: The following sample was analyzed outside of holding time due to being received while instrument was down. Client requested to proceed with analysis. : MW-3 (580-127628-1).

Method 300.0: Reanalysis of the following sample was performed outside of the analytical holding time due to requiring a dilution. Original sample was analyzed within holding time but the result exceeded the high end of the instrument calibration curve. Results concurred therefore both sets of data have been reported: MW-14 (580-127628-3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client Sample ID: MW-3
Date Collected: 05/24/23 09:05
Date Received: 05/25/23 09:40

Lab Sample ID: 580-127628-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene (PCE)	ND		1.0	0.41	ug/L			05/27/23 00:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*05/27/23 00:32*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*05/27/23 00:32*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*05/27/23 00:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*		*05/27/23 00:32*	*1*

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		20	1.7	ug/L		05/30/23 16:58	05/31/23 20:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	26	H	2.0	0.30	mg/L			05/26/23 12:43	10

Client: Washington State Dept of Corrections
Project/Site: Bi-Annual Monitoring-May

Job ID: 580-127628-1

Client Sample ID: MW-9
Date Collected: 05/24/23 11:30
Date Received: 05/25/23 09:40

Lab Sample ID: 580-127628-2
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene (PCE)	ND		1.0	0.41	ug/L			05/27/23 00:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*05/27/23 00:56*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*05/27/23 00:56*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*05/27/23 00:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*05/27/23 00:56*	*1*

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**180**		20	1.7	ug/L		05/30/23 16:58	05/31/23 20:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	**10**		0.20	0.030	mg/L			05/26/23 10:07	1

Client: Washington State Dept of Corrections
Project/Site: Bi-Annual Monitoring-May

Job ID: 580-127628-1

Client Sample ID: MW-14

Date Collected: 05/24/23 10:07
Date Received: 05/25/23 09:40

Lab Sample ID: 580-127628-3

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene (PCE)	ND		1.0	0.41	ug/L			05/27/23 01:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 120*		*05/27/23 01:20*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*05/27/23 01:20*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*05/27/23 01:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*05/27/23 01:20*	*1*

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	5.2	J	20	1.7	ug/L		05/30/23 16:58	05/31/23 20:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	24		0.20	0.030	mg/L			05/26/23 09:36	1
Nitrate as N (EPA 300.0)	25	H	2.0	0.30	mg/L			05/26/23 10:31	10

Client: Washington State Dept of Corrections
Project/Site: Bi-Annual Monitoring-May

Job ID: 580-127628-1

Client Sample ID: MW-1A

Date Collected: 05/24/23 12:30
Date Received: 05/25/23 09:40

Lab Sample ID: 580-127628-4

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene (PCE)	ND		1.0	0.41	ug/L			05/27/23 01:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*05/27/23 01:44*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*05/27/23 01:44*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*05/27/23 01:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*05/27/23 01:44*	*1*

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		20	1.7	ug/L		05/30/23 16:58	05/31/23 20:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	26		2.0	0.30	mg/L			05/26/23 10:42	10

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 580-427262/6
Matrix: Water
Analysis Batch: 427262

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene (PCE)	ND		1.0	0.41	ug/L			05/26/23 19:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*05/26/23 19:21*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*05/26/23 19:21*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*05/26/23 19:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*05/26/23 19:21*	*1*

Lab Sample ID: LCS 580-427262/7
Matrix: Water
Analysis Batch: 427262

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Tetrachloroethene (PCE)	10.0	9.54		ug/L		95	76 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*92*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*

Lab Sample ID: LCSD 580-427262/8
Matrix: Water
Analysis Batch: 427262

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Tetrachloroethene (PCE)	10.0	9.81		ug/L		98	76 - 125	3	13

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*97*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 120*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 580-427404/22-A
Matrix: Water
Analysis Batch: 427605

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 427404

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		20	1.7	ug/L		05/30/23 16:58	05/31/23 19:36	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 580-427404/23-A
Matrix: Water
Analysis Batch: 427605

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 427404

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	1000	948		ug/L		95	80 - 120

Lab Sample ID: LCSD 580-427404/24-A
Matrix: Water
Analysis Batch: 427605

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 427404

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Manganese	1000	975		ug/L		98	80 - 120	3	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 580-427374/3
Matrix: Water
Analysis Batch: 427374

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.20	0.030	mg/L			05/25/23 16:43	1

Lab Sample ID: LCS 580-427374/4
Matrix: Water
Analysis Batch: 427374

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	5.00	4.93		mg/L		99	90 - 110

Lab Sample ID: LCSD 580-427374/5
Matrix: Water
Analysis Batch: 427374

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	5.00	4.91		mg/L		98	90 - 110	0	15

Lab Chronicle

Client: Washington State Dept of Corrections
Project/Site: Bi-Annual Monitoring-May

Job ID: 580-127628-1

Client Sample ID: MW-3

Date Collected: 05/24/23 09:05
Date Received: 05/25/23 09:40

Lab Sample ID: 580-127628-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	427262	JBT	EET SEA	05/27/23 00:32
Total Recoverable	Prep	3005A			427404	TMH	EET SEA	05/30/23 16:58
Total Recoverable	Analysis	6010D		1	427605	JLS	EET SEA	05/31/23 20:13
Total/NA	Analysis	300.0		10	427374	CA	EET SEA	05/26/23 12:43

Client Sample ID: MW-9

Date Collected: 05/24/23 11:30
Date Received: 05/25/23 09:40

Lab Sample ID: 580-127628-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	427262	JBT	EET SEA	05/27/23 00:56
Total Recoverable	Prep	3005A			427404	TMH	EET SEA	05/30/23 16:58
Total Recoverable	Analysis	6010D		1	427605	JLS	EET SEA	05/31/23 20:16
Total/NA	Analysis	300.0		1	427374	CA	EET SEA	05/26/23 10:07

Client Sample ID: MW-14

Date Collected: 05/24/23 10:07
Date Received: 05/25/23 09:40

Lab Sample ID: 580-127628-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	427262	JBT	EET SEA	05/27/23 01:20
Total Recoverable	Prep	3005A			427404	TMH	EET SEA	05/30/23 16:58
Total Recoverable	Analysis	6010D		1	427605	JLS	EET SEA	05/31/23 20:20
Total/NA	Analysis	300.0		1	427374	CA	EET SEA	05/26/23 09:36
Total/NA	Analysis	300.0		10	427374	CA	EET SEA	05/26/23 10:31

Client Sample ID: MW-1A

Date Collected: 05/24/23 12:30
Date Received: 05/25/23 09:40

Lab Sample ID: 580-127628-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	427262	JBT	EET SEA	05/27/23 01:44
Total Recoverable	Prep	3005A			427404	TMH	EET SEA	05/30/23 16:58
Total Recoverable	Analysis	6010D		1	427605	JLS	EET SEA	05/31/23 20:23
Total/NA	Analysis	300.0		10	427374	CA	EET SEA	05/26/23 10:42

Laboratory References:

EET SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Washington State Dept of Corrections
Project/Site: Bi-Annual Monitoring-May

Job ID: 580-127628-1

Laboratory: Eurofins Seattle

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
300.0		Water	Nitrate as N

Sample Summary

Client: Washington State Dept of Corrections
Project/Site: Bi-Annual Monitoring-May

Job ID: 580-127628-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-127628-1	MW-3	Water	05/24/23 09:05	05/25/23 09:40
580-127628-2	MW-9	Water	05/24/23 11:30	05/25/23 09:40
580-127628-3	MW-14	Water	05/24/23 10:07	05/25/23 09:40
580-127628-4	MW-1A	Water	05/24/23 12:30	05/25/23 09:40

Eurofins Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310

Chain of Custody Record

eurofins | Environment Testing

Client Information			
Client Contact: Dean Smith	Sampler: D. SMITH	Lab PM: Schick, Laura	Carrier Tracking No(s):
Company: Washington State Dept of Corrections	Phone: 509 386 0388	E-Mail: Laura.Schick@et.eurofinsus.com	State of Origin:
Address: 1313 N 13th Ave - MS#37	PWSID:	COC No: 580-55682-17316.1	Page: Page 1 of 1
City: Walla Walla	Due Date Requested:	Job #:	
State, Zip: WA, 99362	TAT Requested (days):		
Phone:	Compliance Project: Δ Yes Δ No		
Email: dean.smith@doc.wa.gov	PO #: Purchase Order Requested		
Project Name: Bi-Annual Monitoring - May	WO #:		
Site:	Project #: 58019384		
	SSOW#:		

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_48HR - Nitrate only	6010D - Manganese only	8260D - Tetrachloroethene (PCE) only	Total Number of containers	Special Instructions/Note:
				Preservation Code:			N	D	A		
MW-3	5-24-23	0905		Water			X	X	X		
MW-9	5-24-23	1130		Water			X	X	X		
MW-14	5-24-23	0940		Water			X	X	X		
MW-1A	5-24-23	1230		Water			X	X	X		
				Water							
				Water							
				Water							
				Water							
				Water							

580-127628 Chain of Custody

Possible Hazard Identification
☒ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown* ☐ *Radiological*

Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☒ *Disposal By Lab* ☐ *Archive For ________ Months*

Special Instructions/QC Requirements:

Empty Kit Relinquished by: D SMITH	Date: 5-24-2023	Time: 1300	Method of Shipment:
Relinquished by: [signature]	Date/Time: 5-24-23	Company: DOC	Received by: [signature]
Date/Time: 5/25/23 0940	Company: EET		
Relinquished by:	Date/Time:	Company	Received by:
Date/Time:	Company		
Relinquished by:	Date/Time:	Company	Received by:
Date/Time:	Company		

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: A3= 9.1/9.1 IR10 = 7.9/8.1 Wet NDA

Ver: 01/16/2019

6/5/2023

Login Sample Receipt Checklist

Client: Washington State Dept of Corrections

Job Number: 580-127628-1

Login Number: 127628
List Number: 1
Creator: Prigge, Madison

List Source: Eurofins Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	False	Refer to Job Narrative for details.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	