MOTT MACDONALD

Everett Steel Post-Closure Groundwater Data Report

August 2024

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WA 98101
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Everett Steel Post-Closure Groundwater Data Report

August 2024

Document reference: 518300052 |

Information class: Standard

Contents

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Attachments

1 Introduction and Purpose

This report is the first post-injection groundwater monitoring report for:

- Site Name: Everett Steel Scrapyard
- Cleanup Site ID: 3561
- Facility Site ID: 71351
- Voluntary Cleanup Program ID: NW3190
- Address: 33rd St 34th St & Burlington Northern Railroad (BNRR) right of way, Everett, WA 98201
- Tax Parcel Numbers: 29052900201300, 00984050103100

As of 2023, Everett Steel successfully completed a site cleanup action in accordance with the Washington Department of Ecology (Ecology) - approved Cleanup Action Plan (Pacific Groundwater Group 2019). The Cleanup Action meets the substantive requirements of The Model Toxics Control Act (MTCA), Washington Administrative Code (WAC) 173-340. With the No Further Action, an environmental covenant has been drafted but not yet finalized for this Site to restrict land and groundwater use to industrial/commercial purposes. As part of site closure, Everett Steel and Ecology agreed to a groundwater monitoring plan to monitor Total Petroleum Hydrocarbons-Diesel Extended (TPH-Dx) concentrations in three wells.[1]

In February 2024, groundwater monitoring began from the three Ecology-required monitoring wells. The analytical results for one well marginally exceeded the MTCA Method A TPH-Dx cleanup level. As the concentrations appeared to show little degradation from previous sampling, Everett Steel proposed to perform a groundwater remedy to address TPH-Dx residual contamination in early May 2024 followed by sampling in July 2024.

The purpose of this data report is to provide analytical results from 2024 sampling and to propose an expedited path to closure for the Everett Steel Scrapyard Site.

[1] Mott MacDonald, 2024. Everett Steel Post-Closure Groundwater Monitoring Plan. January 2024.

2 2024 Post-Closure Groundwater Monitoring and Groundwater Remediation

2.1 Monitoring and Remedy Performed

In accordance with the Ecology-approved Everett Steel Post-Closure Groundwater Monitoring Plan (Mott MacDonald 2024), Mott MacDonald sampled the three post-closure groundwater monitoring wells in February 2024. The locations of the three wells (D31R, E33, and G30) are shown on Figure 1, as well as the areas where groundwater concentrations exceed MTCA Method A cleanup levels. Table 1 provides analytical results for 2024 groundwater monitoring.

When February 2024 analytical results showed that diesel extended (NWTPH-Dx) had not degraded in well E33 and still exceeded the Method A cleanup level using the Guidance for Silica Gel Cleanup in Washington State (November 2023), Everett Steel chose to perform a groundwater remedy to address TPH-Dx residual contamination in early May 2024 followed by sampling in July 2024. Mott MacDonald, on behalf of Everett Steel, applied for and received Underground Injection Control (UIC) Permit (UIC Site 38580) to perform a groundwater remedy to address TPH-Dx residual contamination in early May 2024 followed by sampling in July 2024.

In accordance with the permit, Washington-licensed driller Cascade Drilling injected 12 temporary UIC injection points around the area of monitoring well E33 by geoprobe. As submitted to the UIC program, the Everett Steel Post-Closure E33 Area Injection Plan (Mott MacDonald 2024) was followed and describes the detail of the activated carbon and electron acceptors injected to enhance anaerobic biological oxidation of petroleum. The volume and concentration of injection solution was up to 723 gallons per point and 0.31 kg/kg of activated carbon and electron acceptor solution with a total volume injected not to exceed 7,949 gallons. The treatment is expensive, thorough, and effective as described in this report.

On July 17, 2024, the first post-injection groundwater monitoring was performed at the Everett Steel site. The sampling followed procedures were followed as set forth in the Post-Closure Groundwater Monitoring Plan (Mott MacDonald 2024).

Samples were collected according to standard low flow methods described in the Monitoring Plan using care to collect semi-volatile petroleum products analyses (NWTPH-Dx) and maintain sample quality. Samples were stored on ice and chain of custody was maintained until receipt by ALS Environmental, a Washington-certified laboratory.

2.2 Analytical Results

Samples were analyzed by the laboratory using Northwest Total Petroleum Hydrocarbon method for TPH-Dx to report concentrations of TPH-Dx and TPH-Dx with silica gel for comparison to MTCA Method A cleanup levels in micrograms per liter or ug/L (Washington State Department of Ecology 2023) listed:

- TPH-Dx (with silica gel) ≤500 µg/L
- [TPH-Dx (no silica gel)] – [TPH-Dx (with silica gel)] ≤500 µg/L

Table 1 provides the analytical results from July 2024, as well as the results from February 2024 for comparison.

TPH-Dx was detected (320 ug/L) in well D31R below the Method A cleanup level (500 ug/L) in July 2024. There are no detections in wells G30 and E33 during this event. The silica gel-treated samples show no detections in all wells.

3 2024 Monitoring and Closure Proposed

Concentrations have decreased in well E33 to non-detect in July 2024 when compared to groundwater monitoring data from before the remediation, and there are no exceedances in wells G30 and D31R (Table 1). Therefore, groundwater monitoring will proceed in October 2024. Per the Post-Closure Groundwater Monitoring Plan (Mott MacDonald 2024), groundwater monitoring would proceed with quarterly sampling in October 2024, January 2024, and April 2024. If below cleanup levels for four quarters, Mott MacDonald, on behalf of Everett Steel, will report the findings and request permission from Ecology to cease monitoring.

However, Everett Steel voluntarily conducted an additional injection remedy at expense in May 2024. Consequently, Everett Steel requests Ecology's approval to curtail quarterly sampling after October 2024 if concentrations continue to be well below MTCA Method A cleanup levels. The TPH-Dx at Everett Steel may be due to upgradient sources as the area is industrial with no use of groundwater. Further, all TPH-Dx concentrations are non-detect for silica gel treated samples likely because the TPH-Dx measured is either due to naturally-occurring organics or highly degraded petroleum compounds. Sampling through April 2024, delaying closure, and costing Everett Steel would provide no additional protection of human health and the environment. We look forward to Ecology's response to this proposal.

4 References

Mott MacDonald 2024a. Everett Steel Post-Closure Groundwater Monitoring Plan. January 2024.

Mott MacDonald 2024b. Everett Steel Post-Closure E33 Area Injection Plan. April 2024.

Pacific Groundwater Group 2019. Everett Steel Site, Cleanup Action Plan, Everett, Washington. July 23, 2019.

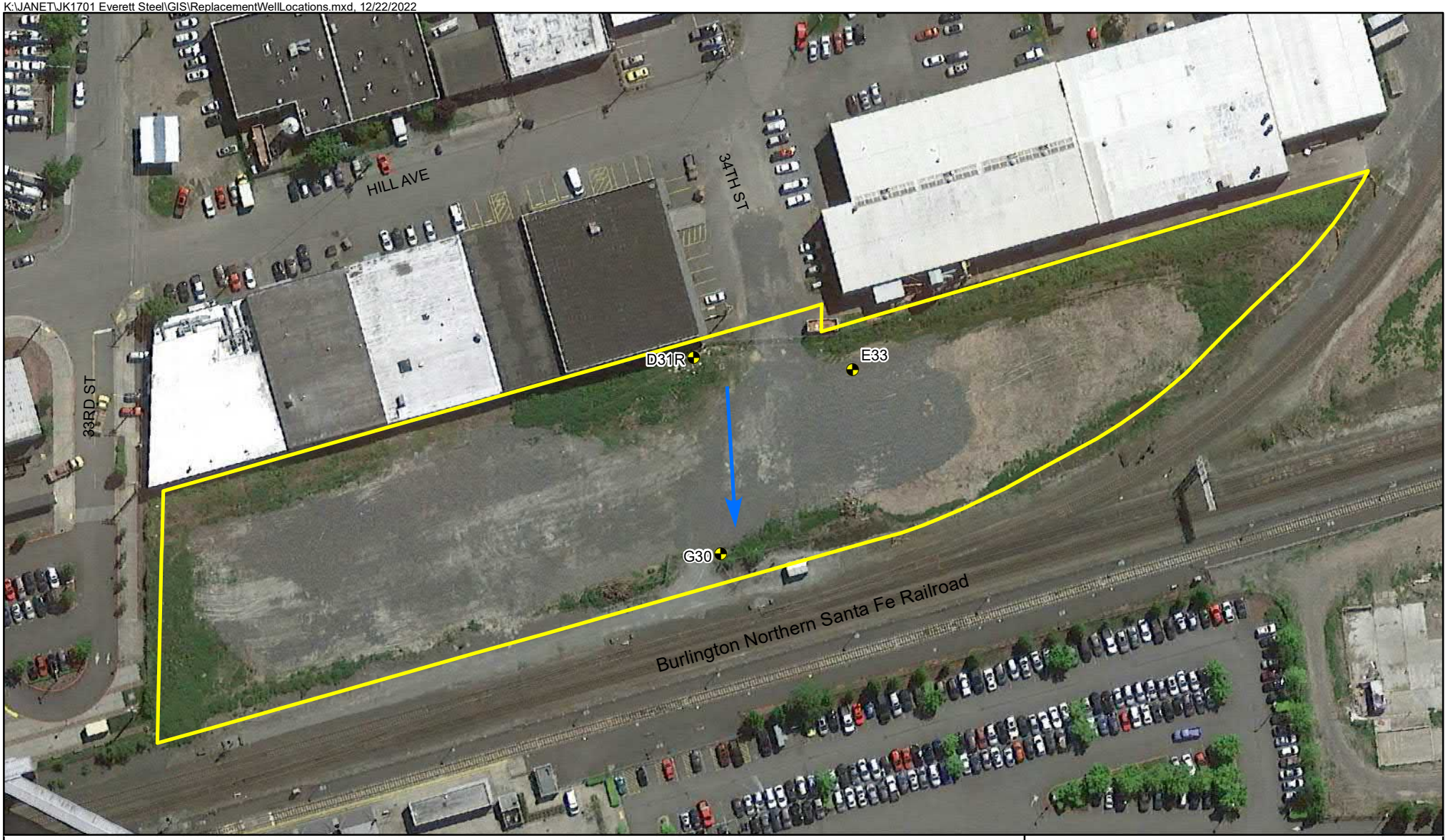
Washington State Department of Ecology 2023. Guidance for Silica Gel Cleanup in Washington State. Toxics Cleanup Program, Olympia, Washington. November 2023. Publication No. 22-09-059.

Table 1. Analytical Results for Groundwater Samples from 2024
Groundwater Samples from Post-Closure Monitoring Wells, Everett Steel, Everett, WA

	Well ID	TPH-Dx	TPH-Dx (with SGC)
Cleanup Levels		500 ug/L[a]	[TPH-Dx (no SGC)] – [TPH-Dx (with SGC)] ≤ 500 µg/L[a]
February 2024	G30	230U	230U
February 2024	E33	**870**	230U
February 2024	D31R	240	230U
July 2024	G30	230U	230U
July 2024	E33	230U	230U
July 2024	D31R	320	230U

[a] MTCA Method A cleanup levels are provided for comparison purposes only.
SGC = Silica Gel Cleanup.
U indicates non-detect.

K:\JANET\JK1701 Everett Steel\GIS\ReplacementWellLocations.mxd, 12/22/2022



Monitoring Well Locations

Everett Steel Site

Estimated Groundwater Flow Direction

N

0 Feet 100

2017 Aerial Photo (Google Earth)

Figure 1

Post-Cleanup Action Well Locations

Everett Steel Site, Everett WA

MOTT MACDONALD

March 4, 2024

Mr. Travis Klaas
Mott MacDonald
1601 - 5th Ave
Seattle, WA 98101

Dear Mr. Klaas,

On February 16th, 4 samples were received by our laboratory and assigned our laboratory project number EV24020138. The project was identified as your None Given. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rob Greer
Laboratory Director

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 9820 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Mott MacDonald 1601 - 5th Ave Seattle, WA 98101	DATE:	3/4/2024
		ALS JOB#:	EV24020138
		ALS SAMPLE#:	EV24020138-01
CLIENT CONTACT:	Travis Klaas	DATE RECEIVED:	02/16/2024
CLIENT PROJECT:	None Given	COLLECTION DATE:	2/16/2024 11:20:00 AM
CLIENT SAMPLE ID	G30	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Semivolatile Range	NWTPH-DX	U	230	1	UG/L	02/21/2024	DHM
TPH-Semivolatile Range	NWTPH-DX w/ SGA	U	230	1	UG/L	02/23/2024	DHM

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX	**95.7**	02/21/2024	DHM
C25	NWTPH-DX w/ SGA	**99.7**	02/23/2024	DHM

U - Analyte analyzed for but not detected at level above reporting limit.

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 9820 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Mott MacDonald 1601 - 5th Ave Seattle, WA 98101	DATE:	3/4/2024
		ALS JOB#:	EV24020138
		ALS SAMPLE#:	EV24020138-02
CLIENT CONTACT:	Travis Klaas	DATE RECEIVED:	02/16/2024
CLIENT PROJECT:	None Given	COLLECTION DATE:	2/16/2024 1:50:00 PM
CLIENT SAMPLE ID	E33	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Semivolatile Range	NWTPH-DX	**870**	230	1	UG/L	02/21/2024	DHM
TPH-Semivolatile Range	NWTPH-DX w/ SGA	U	230	1	UG/L	02/23/2024	DHM

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX	**96.7**	02/21/2024	DHM
C25	NWTPH-DX w/ SGA	**98.9**	02/23/2024	DHM

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains an unidentified diesel range product and an unidentified oil range product.

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ALS Group USA, Corp dba ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Mott MacDonald 1601 - 5th Ave Seattle, WA 98101	DATE:	3/4/2024
		ALS JOB#:	EV24020138
		ALS SAMPLE#:	EV24020138-03
CLIENT CONTACT:	Travis Klaas	DATE RECEIVED:	02/16/2024
CLIENT PROJECT:	None Given	COLLECTION DATE:	2/16/2024 12:30:00 PM
CLIENT SAMPLE ID	D31R	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Semivolatile Range	NWTPH-DX	**240**	230	1	UG/L	02/21/2024	DHM
TPH-Semivolatile Range	NWTPH-DX w/ SGA	U	230	1	UG/L	02/23/2024	DHM

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX	**97.7**	02/21/2024	DHM
C25	NWTPH-DX w/ SGA	**98.8**	02/23/2024	DHM

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains an unidentified diesel range product.

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 9820 | PHONE 425-356-2600 | FAX 425-356-2626
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CERTIFICATE OF ANALYSIS

CLIENT:	Mott MacDonald 1601 - 5th Ave Seattle, WA 98101	DATE:	3/4/2024
		ALS JOB#:	EV24020138
		ALS SAMPLE#:	EV24020138-04
CLIENT CONTACT:	Travis Klaas	DATE RECEIVED:	02/16/2024
CLIENT PROJECT:	None Given	COLLECTION DATE:	2/16/2024 11:30:00 AM
CLIENT SAMPLE ID	D300	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Semivolatile Range	NWTPH-DX	U	230	1	UG/L	02/21/2024	DHM
TPH-Semivolatile Range	NWTPH-DX w/ SGA	U	230	1	UG/L	02/23/2024	DHM

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX	**96.8**	02/21/2024	DHM
C25	NWTPH-DX w/ SGA	**100**	02/23/2024	DHM

U - Analyte analyzed for but not detected at level above reporting limit.

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CERTIFICATE OF ANALYSIS

CLIENT:	Mott MacDonald 1601 - 5th Ave Seattle, WA 98101	DATE:	3/4/2024
		ALS SDG#:	EV24020138
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Travis Klaas		
CLIENT PROJECT:	None Given		

LABORATORY BLANK RESULTS

MB-022024W - Batch 207755 - Water by NWTPH-DX

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	U	UG/L	130	02/20/2024	DHM
TPH-Semivolatile Range	NWTPH-DX	U	UG/L	230	02/20/2024	DHM

U - Analyte analyzed for but not detected at level above reporting limit.

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CERTIFICATE OF ANALYSIS

CLIENT:	Mott MacDonald 1601 - 5th Ave Seattle, WA 98101	DATE:	3/4/2024
		ALS SDG#:	EV24020138
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Travis Klaas		
CLIENT PROJECT:	None Given		

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 207755 - Water by NWTPH-DX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range - BS	NWTPH-DX	**101**			67	125.2	02/20/2024	DHM
TPH-Diesel Range - BSD	NWTPH-DX	**101**	**0**		67	125.2	02/20/2024	DHM
TPH-Semivolatile Range - BS	NWTPH-DX	**101**			67	125.2	02/20/2024	DHM
TPH-Semivolatile Range - BSD	NWTPH-DX	**101**	**0**		67	125.2	02/20/2024	DHM

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ALS Group USA, Corp dba ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Mott MacDonald 1601 - 5th Ave Seattle, WA 98101	DATE:	3/4/2024
		ALS SDG#:	EV24020138
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Travis Klaas		
CLIENT PROJECT:	None Given		

MATRIX SPIKE RESULTS

ALS Test Batch ID: 207755 - Water
Parent Sample: G30

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	SPIKE ADDED	PARENT SAMPLE RESULT	CALC RESULT*	LIMITS MIN	LIMITS MAX	RPD	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range - MS	NWTPH-DX	**90.7**			1000	100	907	67	125.2		02/21/2024	DHM
TPH-Diesel Range - MSD	NWTPH-DX	**96.0**	**5**		1000	100	960	67	125.2	15.2	02/21/2024	DHM
TPH-Semivolatile Range - MS	NWTPH-DX	**93.3**			1000	140	933	67	125.2		02/21/2024	DHM
TPH-Semivolatile Range - MSD	NWTPH-DX	**97.1**	**4**		1000	140	971	67	125.2	15.2	02/21/2024	DHM

*Calc Result = (Sample Result - Parent Sample Result)

APPROVED BY

Rob Greer
Laboratory Director

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ALS Group USA, Corp dba ALS Environmental

ALS Environmental
8620 Holly Drive, Suite 100
Everett, WA 98208
Phone (425) 356-2600
Fax (425) 356-2626
http://www.alsglobal.com

Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only)

EV24020138

Date _____ Page _____ Of _____

PROJECT ID:
REPORT TO COMPANY: MoH MacDonald
PROJECT MANAGER: Travis Klaas
ADDRESS: 1601 5th Ave
Seattle, WA 98101
PHONE: 206 329-7587 P.O. #:
E-MAIL: Travis.klaas@mottmac.com
INVOICE TO COMPANY: Everett Steel
ATTENTION:
ADDRESS: 3126 Hill Ave.
Everett, WA

SAMPLE I.D.	DATE	TIME	TYPE	LAB#	NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA 8021	BTEX by EPA 8260	MTBE by EPA 8021	MTBE by EPA 8260	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM	PCB by EPA 8082	Pesticides by EPA 8081	Metals-MTCA-5	RCRA-8	Pri Pol	TAL	Metals Other (Specify)	TCLP-Metals	VOA	Semi-Vol	Pest	Herbs	OTHER (Specify): 2wTPH-Dx silica gel prep	MSMSD	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
1. G30	2/16/24	11:20	GW	1		+																								X	X	3	
2. E33	2/16/24	13:50	GW	2		X																								X		1	
3. D31R	2/16/24	12:30	GW	3		X																								X		1	
4. D300	2/16/24	11:30	GW	4		X																								X		1	
5.																																	
6.																																	
7.																																	
8.																																	
9.																																	
10.																																	

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Travis Klaas / Mott / 2/16/24 / 14:30
   Received By: Ariel Villa, ALS, 2/16/24, 1431
2. Relinquished By: _____
   Received By: _____

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis: [10 Standard] [5] [3] [2] [1] [SAME DAY]

Fuels & Hydrocarbon Analysis: [5 Standard] [3] [1] [SAME DAY]

OTHER:
Specify: _____

*Turnaround request less than standard may incur Rush Charges

ALS ENVIRONMENTAL

Sample Receiving Checklist

Client: Mott MacDonald ALS Job#: EV24020138

Project: not given

Login Date: 2/16/24 Login Time: 1431 Login By: AV

Type of Shipping Container: Cooler Ø Box ___ Other ___

Shipped via: FedEx Ground ___ UPS ___ Courier ___ Hand Delivered Ø ALS Courier ___
FedEx Express ___

	Yes	No	N/A
Were custody seals on outside of shipping container? If yes, how many? ___ Where? ___ Custody seal date: ___ Seal name: ___	___	___	Ø
Was Chain of Custody properly filled out (ink, signed, dated, etc.)?	Ø	___	___
Did all bottles have labels?	Ø	___	___
Did all bottle labels and tags agree with Chain of Custody?	Ø	___	___
Were samples received within hold time?	Ø	___	___
Did all bottles arrive in good condition (unbroken, etc.)?	Ø	___	___
Was sufficient amount of sample sent for the tests indicated?	Ø	___	___
Was correct preservation added to samples?	Ø	___	___
Subcontract test containers added to Subcontract Bin?	___	___	Ø
Wetchem test containers marked with required Tests?	___	___	Ø
Short hold time test containers delivered to analysts?	___	___	Ø
Were VOA vials checked for absence of air bubbles?	___	___	Ø
Bubbles present in sample #: ___			
5035A kits received? # Low Kits: ___ # High Kits: ___	___	___	Ø
5035A kits returned? # Low Kits: ___ # High Kits: ___			
Temperature of cooler upon receipt: 9.4°C On ice?	Ø	___	___

Explain any discrepancies:

Was client contacted? ___ Who was called? ___ By whom? ___ Date: ___

Outcome of call:

July 25, 2024

Mr. Travis Klaas
Mott MacDonald
1601 - 5th Ave
Seattle, WA 98101

Dear Mr. Klaas,

On July 17th, 4 samples were received by our laboratory and assigned our laboratory project number EV24070107. The project was identified as your None Given. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rob Greer
Laboratory Director

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Mott MacDonald 1601 - 5th Ave Seattle, WA 98101	DATE: ALS JOB#: ALS SAMPLE#:	7/25/2024 EV24070107 EV24070107-01
CLIENT CONTACT:	Travis Klaas	DATE RECEIVED:	07/17/2024
CLIENT PROJECT:	None Given	COLLECTION DATE:	7/17/2024 1:00:00 PM
CLIENT SAMPLE ID	G30	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Semivolatile Range	NWTPH-DX	U	230	1	UG/L	07/19/2024	DHM
TPH-Semivolatile Range	NWTPH-DX w/ SGA	U	230	1	UG/L	07/23/2024	DHM

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX	**96.2**	07/19/2024	DHM
C25	NWTPH-DX w/ SGA	**102**	07/23/2024	DHM

U - Analyte analyzed for but not detected at level above reporting limit.

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Mott MacDonald 1601 - 5th Ave Seattle, WA 98101	DATE: ALS JOB#: ALS SAMPLE#:	7/25/2024 EV24070107 EV24070107-02
CLIENT CONTACT:	Travis Klaas	DATE RECEIVED:	07/17/2024
CLIENT PROJECT:	None Given	COLLECTION DATE:	7/17/2024 12:05:00 PM
CLIENT SAMPLE ID	E33	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Semivolatile Range	NWTPH-DX	U	230	1	UG/L	07/19/2024	DHM
TPH-Semivolatile Range	NWTPH-DX w/ SGA	U	230	1	UG/L	07/23/2024	DHM

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX	**97.7**	07/19/2024	DHM
C25	NWTPH-DX w/ SGA	**103**	07/23/2024	DHM

U - Analyte analyzed for but not detected at level above reporting limit.

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ALS Group USA, Corp dba ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Mott MacDonald 1601 - 5th Ave Seattle, WA 98101	DATE: ALS JOB#: ALS SAMPLE#:	7/25/2024 EV24070107 EV24070107-03
CLIENT CONTACT:	Travis Klaas	DATE RECEIVED:	07/17/2024
CLIENT PROJECT:	None Given	COLLECTION DATE:	7/17/2024 1:10:00 PM
CLIENT SAMPLE ID	D31R	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Semivolatile Range	NWTPH-DX	**320**	230	1	UG/L	07/19/2024	DHM
TPH-Semivolatile Range	NWTPH-DX w/ SGA	U	230	1	UG/L	07/23/2024	DHM

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX	**103**	07/19/2024	DHM
C25	NWTPH-DX w/ SGA	**107**	07/23/2024	DHM

U - Analyte analyzed for but not detected at level above reporting limit.

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ALS Group USA, Corp dba ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Mott MacDonald 1601 - 5th Ave Seattle, WA 98101	DATE: ALS JOB#: ALS SAMPLE#:	7/25/2024 EV24070107 EV24070107-04
CLIENT CONTACT:	Travis Klaas	DATE RECEIVED:	07/17/2024
CLIENT PROJECT:	None Given	COLLECTION DATE:	7/17/2024 1:05:00 PM
CLIENT SAMPLE ID	D300	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Semivolatile Range	NWTPH-DX	U	230	1	UG/L	07/20/2024	DHM
TPH-Semivolatile Range	NWTPH-DX w/ SGA	U	230	1	UG/L	07/23/2024	DHM

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX	**104**	07/20/2024	DHM
C25	NWTPH-DX w/ SGA	**103**	07/23/2024	DHM

U - Analyte analyzed for but not detected at level above reporting limit.

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Mott MacDonald 1601 - 5th Ave Seattle, WA 98101	DATE:	7/25/2024
		ALS SDG#:	EV24070107
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Travis Klaas		
CLIENT PROJECT:	None Given		

LABORATORY BLANK RESULTS

MB-071824W - Batch 215027 - Water by NWTPH-DX

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	U	UG/L	130	07/19/2024	DHM
TPH-Semivolatile Range	NWTPH-DX	U	UG/L	230	07/19/2024	DHM

U - Analyte analyzed for but not detected at level above reporting limit.

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CERTIFICATE OF ANALYSIS

CLIENT:	Mott MacDonald 1601 - 5th Ave Seattle, WA 98101	DATE:	7/25/2024
		ALS SDG#:	EV24070107
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Travis Klaas		
CLIENT PROJECT:	None Given		

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 215027 - Water by NWTPH-DX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range - BS	NWTPH-DX	**101**			67	125.2	07/19/2024	DHM
TPH-Diesel Range - BSD	NWTPH-DX	**103**	**1**		67	125.2	07/19/2024	DHM

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CERTIFICATE OF ANALYSIS

CLIENT:	Mott MacDonald 1601 - 5th Ave Seattle, WA 98101	DATE:	7/25/2024
		ALS SDG#:	EV24070107
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Travis Klaas		
CLIENT PROJECT:	None Given		

MATRIX SPIKE RESULTS

ALS Test Batch ID: 215027 - Water
Parent Sample: G30

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	SPIKE ADDED	PARENT SAMPLE RESULT	CALC RESULT*	LIMITS MIN	LIMITS MAX	RPD	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range - MS	NWTPH-DX	**69.4**			1000	96	694	67	125.2		07/19/2024	DHM
TPH-Diesel Range - MSD	NWTPH-DX	**68.1**	**2**		1000	96	681	67	125.2	15.2	07/19/2024	DHM

*Calc Result = (Sample Result - Parent Sample Result)

APPROVED BY

Rob Greer
Laboratory Director

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ALS Environmental
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Everett, WA 98208
Phone (425) 356-2600
Fax (425) 356-2626
http://www.alsglobal.com

Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only): EV24070107

Date _____ Page _____ Of _____

PROJECT ID:
REPORT TO COMPANY: Mott MacDonald
PROJECT MANAGER: Travis Klaas
ADDRESS: 1601 5th Ave
Seattle, WA 98101
PHONE: 206-329-7587 P.O. #:
E-MAIL: Travis.klaas@mottmac.com
INVOICE TO COMPANY: Everett Steel
ATTENTION:
ADDRESS: 3126 Hill Ave
Everett, WA

SAMPLE I.D.	DATE	TIME	TYPE	LAB#
1. G30	7/17/24	1300	GW	1
2. E33	7/17/24	1205	GW	2
3. D31B	7/17/24	1310	GW	3
4. D30D	7/17/24	1305	GW	4
5.				
6.				
7.				
8.				
9.				
10.				

ANALYSIS REQUESTED

NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA 8021 ☐ BTEX by EPA 8260 ☐	MTBE by EPA 8021 ☐ MTBE by EPA 8260 ☐	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM	PCB by EPA 8082 ☐ Pesticides by EPA 8081 ☐	Metals-MTCA-5 ☐ RCRA-8 ☐ Pri Pol ☐ TAL ☐	Metals Other (Specify)	TCLP-Metals ☐ VOA ☐ Semi-Vol ☐ Pest ☐ Herbs ☐
	X													
	X													
	X													
	X													

OTHER (Specify)

NWTPH-Dx Silica gel prep	MS/MSD	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
X	X	3	
X		1	
X		1	
X		1	

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: THAIS PALMA DE BRITO / MOTT / 7/17/24 / 14:22
   Received By: ALS 7/17/24 1422
2. Relinquished By:
   Received By:

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis
10 Standard | 5 | 3 | 2 | 1 | SAME DAY

Fuels & Hydrocarbon Analysis
5 Standard | 3 | 1 | SAME DAY

OTHER:
Specify: _____

*Turnaround request less than standard may incur Rush Charges

ALS ENVIRONMENTAL

Sample Receiving Checklist

Client: ~~Matt Mcdonald~~ Mott Macdonald AV ALS Job#: EV24070107

Project: None given

Login Date: 7/9/24 Login Time: 1422 Login By: AV

Type of Shipping Container: Cooler ✓ Box ___ Other ___

Shipped via: FedEx Ground ___ UPS ___ Courier ___ Hand Delivered ✓ ALS Courier ___
FedEx Express ___

	Yes	No	N/A
Were custody seals on outside of shipping container? If yes, how many? ___ Where? ___ Custody seal date: ___ Seal name: ___	___	___	✓
Was Chain of Custody properly filled out (ink, signed, dated, etc.)?	✓	___	___
Did all bottles have labels?	✓	___	___
Did all bottle labels and tags agree with Chain of Custody?	✓	___	___
Were samples received within hold time?	✓	___	___
Did all bottles arrive in good condition (unbroken, etc.)?	✓	___	___
Was sufficient amount of sample sent for the tests indicated?	✓	___	___
Was correct preservation added to samples?	✓	___	___
Subcontract test containers added to Subcontract Bin?	___	___	___
Wetchem test containers marked with required Tests?	___	___	✓
Short hold time test containers delivered to analysts?	___	___	✓
Were VOA vials checked for absence of air bubbles?	___	___	✓
Bubbles present in sample #: ___			
5035A kits received? # Low Kits: ___ # High Kits: ___	___	___	✓
5035A kits returned? # Low Kits: ___ # High Kits: ___			
Temperature of cooler upon receipt: 10.9°C On ice?	✓	___	___

Explain any discrepancies:

Was client contacted? ___ Who was called? ___ By whom? ___ Date: ___

Outcome of call: