



Neilson Research Corporation  
245 S Grape St  
Medford, OR 97501  
TEL: (541) 770-5678 FAX: (541) 770-2901  
Website: www.nrclabs.com

December 20, 2021

Danny Boone  
R&D Environmental Solutions  
1439 N.E. Sixth Street, #2  
Grants Pass, OR 97526  
TEL: 541-471-7008  
FAX 541-474-4691

RE: UST Decommission-Sukhwinder S Rai

Order No.: 21120175

Dear Danny Boone:

Neilson Research Corporation received 13 sample(s) on 12/3/2021 for the analyses presented in the following report.

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

Sincerely,  
Neilson Research Corporation

Tamra Schmedemann  
Senior Project Manager  
245 S Grape St  
Medford, OR 97501



Original



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## Case Narrative

WO#: 21120175  
Date: 12/20/2021

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**CLIENT:** R&D Environmental Solutions  
**Project:** UST Decommission-Sukhwinder S Rai

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

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

Analytical Comments for EPA8260\_3550\_S, Sample 21120175-11A, Batch ID 15037 : Sample analyzed past the method specified holding time due to instrument issues.

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# Analytical Report

WO#: 21120175  
 Date Reported: 12/20/2021

**CLIENT:** R&D Environmental Solutions  
**Lab ID:** 21120175-01  
**Client Sample ID:** SR-120221-P1@4'  
**Project:** UST Decommission-Sukhwinder S Rai  
**Sample Address:** 2476 Williams Hwy  
 Grants Pass, OR 97527

**Collection Date:** 12/2/2021 10:35:00 AM  
**Received Date:** 12/3/2021 11:11:00 AM  
**Matrix:** SOLID

**Sample Location:** P1@4'

Analyses	Method	NELAP Status	Result	Qual	DF	RL	Units	MCL	Date Analyzed/Analyst
<b>NWTPHDX_S PERCENT MOISTURE</b>									
Percent Moisture	NWTPH		13		1	1.0			12/03/21 17:00 MH
<b>NWTPHDX_S NORTHWEST TPH DX IN SOIL</b>									
TPH as Diesel	NWTPH-DX	A	ND		1	13.9	mg/Kg-dry		12/06/21 17:40 MRH
TPH as Lube Oil	NWTPH-DX	A	ND		1	27.8	mg/Kg-dry		12/06/21 17:40 MRH
Surr: o-Terphenyl	NWTPH-DX		70.4		1	50 - 150	%Rec		12/06/21 17:40 MRH
<b>NORTHWEST TPH GASOLINE IN SOIL</b>									
TPH as Gasoline	NWTPH-GX	A	ND		1	6.94	mg/Kg-dry		12/08/21 12:02 TJW
Surr: 4-Bromofluorobenzene	NWTPH-GX		94.5		1	50 - 150	%Rec		12/08/21 12:02 TJW

**QUALIFIERS**

CI	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	MI	Recovery outside control limits due to Matrix Interference
ND	Not Detected at the Reporting Limit	PL	Permit Limit

Original

**NELAP**

NELAP A Accredited in accordance with NELAP ORELAP 100016, OR-028



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# Analytical Report

WO#: 21120175  
 Date Reported: 12/20/2021

**CLIENT:** R&D Environmental Solutions  
**Lab ID:** 21120175-02  
**Client Sample ID:** SR-120221-P1@8'  
**Project:** UST Decommission-Sukhwinder S Rai  
**Sample Address:** 2476 Williams Hwy  
 Grants Pass, OR 97527

**Collection Date:** 12/2/2021 10:49:00 AM  
**Received Date:** 12/3/2021 11:11:00 AM  
**Matrix:** SOLID

**Sample Location:** P1@8'

Analyses	Method	NELAP Status	Result	Qual	DF	RL	Units	MCL	Date Analyzed/Analyst
<b>NWTPHDX_S PERCENT MOISTURE</b>									
Percent Moisture	NWTPH		14		1	1.0			12/03/21 17:00 MH
<b>NWTPHDX_S NORTHWEST TPH DX IN SOIL</b>									
TPH as Diesel	NWTPH-DX	A	ND		1	14.0	mg/Kg-dry		12/06/21 18:05 MRH
Lube Oil Range (C24 - C40)	NWTPH-DX	A	67.4		1	28.0	mg/Kg-dry		12/06/21 18:05 MRH
Surr: o-Terphenyl	NWTPH-DX		82.7		1	50 - 150	%Rec		12/06/21 18:05 MRH
<b>NORTHWEST TPH GASOLINE IN SOIL</b>									
TPH as Gasoline	NWTPH-GX	A	ND		1	6.10	mg/Kg-dry		12/08/21 13:23 TJW
Surr: 4-Bromofluorobenzene	NWTPH-GX		96.3		1	50 - 150	%Rec		12/08/21 13:23 TJW

**QUALIFIERS**

CI	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	MI	Recovery outside control limits due to Matrix Interference
ND	Not Detected at the Reporting Limit	PL	Permit Limit

Original

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# Analytical Report

WO#: 21120175  
 Date Reported: 12/20/2021

**CLIENT:** R&D Environmental Solutions  
**Lab ID:** 21120175-03  
**Client Sample ID:** SR-120221-P2@5.2'  
**Project:** UST Decommission-Sukhwinder S Rai  
**Sample Address:** 2476 Williams Hwy  
 Grants Pass, OR 97527

**Collection Date:** 12/2/2021 11:15:00 AM  
**Received Date:** 12/3/2021 11:11:00 AM  
**Matrix:** SOLID

**Sample Location:** P2@5.2'

Analyses	Method	NELAP Status	Result	Qual	DF	RL	Units	MCL	Date Analyzed/Analyst
<b>NWTPHDX_S</b>									
<b>PERCENT MOISTURE</b>									
Percent Moisture	NWTPH		12		1	1.0			12/03/21 17:00 MH
<b>NWTPHDX_S</b>									
<b>NORTHWEST TPH DX IN SOIL</b>									
TPH as Diesel	NWTPH-DX	A	ND		1	13.9	mg/Kg-dry		12/06/21 18:31 MRH
TPH as Lube Oil	NWTPH-DX	A	ND		1	27.9	mg/Kg-dry		12/06/21 18:31 MRH
Surr: o-Terphenyl	NWTPH-DX		72.8		1	50 - 150	%Rec		12/06/21 18:31 MRH
<b>NORTHWEST TPH GASOLINE IN SOIL</b>									
TPH as Gasoline	NWTPH-GX	A	ND		1	6.31	mg/Kg-dry		12/08/21 13:51 TJW
Surr: 4-Bromofluorobenzene	NWTPH-GX		96.9		1	50 - 150	%Rec		12/08/21 13:51 TJW

**QUALIFIERS**

CI	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	MI	Recovery outside control limits due to Matrix Interference
ND	Not Detected at the Reporting Limit	PL	Permit Limit

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# Analytical Report

WO#: 21120175  
 Date Reported: 12/20/2021

**CLIENT:** R&D Environmental Solutions  
**Lab ID:** 21120175-04  
**Client Sample ID:** SR-120221-P2@7'  
**Project:** UST Decommission-Sukhwinder S Rai  
**Sample Address:** 2476 Williams Hwy  
 Grants Pass, OR 97527

**Collection Date:** 12/2/2021 11:19:00 AM  
**Received Date:** 12/3/2021 11:11:00 AM  
**Matrix:** SOLID

**Sample Location:** P2@7'

Analyses	Method	NELAP Status	Result	Qual	DF	RL	Units	MCL	Date Analyzed/Analyst
<b>NWTPHDX_S PERCENT MOISTURE</b>									
Percent Moisture	NWTPH		13		1	1.0			12/03/21 17:00 MH
<b>NWTPHDX_S NORTHWEST TPH DX IN SOIL</b>									
Diesel Range (C12 - C24)	NWTPH-DX	A	67.0		1	13.6	mg/Kg-dry		12/06/21 18:56 MRH
TPH as Lube Oil	NWTPH-DX	A	ND		1	27.3	mg/Kg-dry		12/06/21 18:56 MRH
Surr: o-Terphenyl	NWTPH-DX		80.4		1	50 - 150	%Rec		12/06/21 18:56 MRH
<b>NORTHWEST TPH GASOLINE IN SOIL</b>									
TPH as Gasoline	NWTPH-GX	A	143		1	5.99	mg/Kg-dry		12/08/21 14:18 TJW
Surr: 4-Bromofluorobenzene	NWTPH-GX		105		1	50 - 150	%Rec		12/08/21 14:18 TJW

**QUALIFIERS**

CI	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	MI	Recovery outside control limits due to Matrix Interference
ND	Not Detected at the Reporting Limit	PL	Permit Limit

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# Analytical Report

WO#: 21120175  
 Date Reported: 12/20/2021

**CLIENT:** R&D Environmental Solutions  
**Lab ID:** 21120175-05  
**Client Sample ID:** SR-120221-P2@10'  
**Project:** UST Decommission-Sukhwinder S Rai  
**Sample Address:** 2476 Williams Hwy  
 Grants Pass, OR 97527

**Collection Date:** 12/2/2021 11:36:00 AM  
**Received Date:** 12/3/2021 11:11:00 AM  
**Matrix:** SOLID

**Sample Location:** P2@10'

Analyses	Method	NELAP Status	Result	Qual	DF	RL	Units	MCL	Date Analyzed/Analyst
<b>NWTPHDX_S PERCENT MOISTURE</b>									
Percent Moisture	NWTPH		14		1	1.0			12/03/21 17:00 MH
<b>NWTPHDX_S NORTHWEST TPH DX IN SOIL</b>									
TPH as Diesel	NWTPH-DX	A	ND		1	13.6	mg/Kg-dry		12/06/21 19:22 MRH
TPH as Lube Oil	NWTPH-DX	A	ND		1	27.1	mg/Kg-dry		12/06/21 19:22 MRH
Surr: o-Terphenyl	NWTPH-DX		62.6		1	50 - 150	%Rec		12/06/21 19:22 MRH
<b>NORTHWEST TPH GASOLINE IN SOIL</b>									
TPH as Gasoline	NWTPH-GX	A	ND		1	5.72	mg/Kg-dry		12/08/21 15:56 TJW
Surr: 4-Bromofluorobenzene	NWTPH-GX		104		1	50 - 150	%Rec		12/08/21 15:56 TJW

**QUALIFIERS**

CI	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	MI	Recovery outside control limits due to Matrix Interference
ND	Not Detected at the Reporting Limit	PL	Permit Limit

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# Analytical Report

WO#: 21120175  
 Date Reported: 12/20/2021

**CLIENT:** R&D Environmental Solutions  
**Lab ID:** 21120175-06  
**Client Sample ID:** SR-120221-P3@7'  
**Project:** UST Decommission-Sukhwinder S Rai  
**Sample Address:** 2476 Williams Hwy  
 Grants Pass, OR 97527

**Collection Date:** 12/2/2021 12:03:00 PM  
**Received Date:** 12/3/2021 11:11:00 AM  
**Matrix:** SOLID

**Sample Location:** P3@7'

Analyses	Method	NELAP Status	Result	Qual	DF	RL	Units	MCL	Date Analyzed/Analyst
<b>NWTPHDX_S</b>									
<b>PERCENT MOISTURE</b>									
Percent Moisture	NWTPH		13		1	1.0			12/03/21 17:00 MH
<b>NWTPHDX_S</b>									
<b>NORTHWEST TPH DX IN SOIL</b>									
TPH as Diesel	NWTPH-DX	A	ND		1	13.3	mg/Kg-dry		12/06/21 20:39 MRH
TPH as Lube Oil	NWTPH-DX	A	ND		1	26.5	mg/Kg-dry		12/06/21 20:39 MRH
Surr: o-Terphenyl	NWTPH-DX		62.5		1	50 - 150	%Rec		12/06/21 20:39 MRH
<b>NORTHWEST TPH GASOLINE IN SOIL</b>									
TPH as Gasoline	NWTPH-GX	A	86.1		1	5.50	mg/Kg-dry		12/08/21 16:24 TJW
Surr: 4-Bromofluorobenzene	NWTPH-GX		108		1	50 - 150	%Rec		12/08/21 16:24 TJW

**QUALIFIERS**

CI	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	MI	Recovery outside control limits due to Matrix Interference
ND	Not Detected at the Reporting Limit	PL	Permit Limit

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# Analytical Report

WO#: 21120175  
 Date Reported: 12/20/2021

**CLIENT:** R&D Environmental Solutions  
**Lab ID:** 21120175-07  
**Client Sample ID:** SR-120221-P3@10'  
**Project:** UST Decommission-Sukhwinder S Rai  
**Sample Address:** 2476 Williams Hwy  
 Grants Pass, OR 97527

**Collection Date:** 12/2/2021 12:27:00 PM  
**Received Date:** 12/3/2021 11:11:00 AM  
**Matrix:** SOLID

**Sample Location:** P3@10'

Analyses	Method	NELAP Status	Result	Qual	DF	RL	Units	MCL	Date Analyzed/Analyst
<b>NWTPHDX_S PERCENT MOISTURE</b>									
Percent Moisture	NWTPH		15		1	1.0			12/03/21 17:00 MH
<b>NWTPHDX_S NORTHWEST TPH DX IN SOIL</b>									
TPH as Diesel	NWTPH-DX	A	ND		1	14.3	mg/Kg-dry		12/06/21 21:04 MRH
TPH as Lube Oil	NWTPH-DX	A	ND		1	28.7	mg/Kg-dry		12/06/21 21:04 MRH
Surr: o-Terphenyl	NWTPH-DX		67.1		1	50 - 150	%Rec		12/06/21 21:04 MRH
<b>NORTHWEST TPH GASOLINE IN SOIL</b>									
TPH as Gasoline	NWTPH-GX	A	ND		1	5.63	mg/Kg-dry		12/08/21 16:51 TJW
Surr: 4-Bromofluorobenzene	NWTPH-GX		95.0		1	50 - 150	%Rec		12/08/21 16:51 TJW

**QUALIFIERS**

CI	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	MI	Recovery outside control limits due to Matrix Interference
ND	Not Detected at the Reporting Limit	PL	Permit Limit

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# Analytical Report

WO#: 21120175  
 Date Reported: 12/20/2021

**CLIENT:** R&D Environmental Solutions  
**Lab ID:** 21120175-08  
**Client Sample ID:** SR-120221-P4@4'  
**Project:** UST Decommission-Sukhwinder S Rai  
**Sample Address:** 2476 Williams Hwy  
 Grants Pass, OR 97527

**Collection Date:** 12/2/2021 12:54:00 PM  
**Received Date:** 12/3/2021 11:11:00 AM  
**Matrix:** SOLID

**Sample Location:** P4@4'

Analyses	Method	NELAP Status	Result	Qual	DF	RL	Units	MCL	Date Analyzed/Analyst
<b>NWTPHDX_S PERCENT MOISTURE</b>									
Percent Moisture	NWTPH		13		1	1.0			12/03/21 17:00 MH
<b>NWTPHDX_S NORTHWEST TPH DX IN SOIL</b>									
TPH as Diesel	NWTPH-DX	A	ND		1	13.4	mg/Kg-dry		12/06/21 21:30 MRH
TPH as Lube Oil	NWTPH-DX	A	ND		1	26.9	mg/Kg-dry		12/06/21 21:30 MRH
Surr: o-Terphenyl	NWTPH-DX		71.7		1	50 - 150	%Rec		12/06/21 21:30 MRH
<b>NORTHWEST TPH GASOLINE IN SOIL</b>									
TPH as Gasoline	NWTPH-GX	A	ND		1	6.31	mg/Kg-dry		12/08/21 17:18 TJW
Surr: 4-Bromofluorobenzene	NWTPH-GX		95.9		1	50 - 150	%Rec		12/08/21 17:18 TJW

**QUALIFIERS**

CI	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	MI	Recovery outside control limits due to Matrix Interference
ND	Not Detected at the Reporting Limit	PL	Permit Limit

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# Analytical Report

WO#: 21120175  
 Date Reported: 12/20/2021

**CLIENT:** R&D Environmental Solutions  
**Lab ID:** 21120175-09  
**Client Sample ID:** SR-120221-P4@7'  
**Project:** UST Decommission-Sukhwinder S Rai  
**Sample Address:** 2476 Williams Hwy  
 Grants Pass, OR 97527

**Collection Date:** 12/2/2021 12:58:00 PM  
**Received Date:** 12/3/2021 11:11:00 AM  
**Matrix:** SOLID

**Sample Location:** P4@7'

Analyses	Method	NELAP Status	Result	Qual	DF	RL	Units	MCL	Date Analyzed/Analyst
<b>NWTPHDX_S PERCENT MOISTURE</b>									
Percent Moisture	NWTPH		14		1	1.0			12/03/21 17:00 MH
<b>NWTPHDX_S NORTHWEST TPH DX IN SOIL</b>									
TPH as Diesel	NWTPH-DX	A	ND		1	13.9	mg/Kg-dry		12/06/21 21:55 MRH
TPH as Lube Oil	NWTPH-DX	A	ND		1	27.8	mg/Kg-dry		12/06/21 21:55 MRH
Surr: o-Terphenyl	NWTPH-DX		68.7		1	50 - 150	%Rec		12/06/21 21:55 MRH
<b>NORTHWEST TPH GASOLINE IN SOIL</b>									
TPH as Gasoline	NWTPH-GX	A	69.7		1	6.06	mg/Kg-dry		12/08/21 17:45 TJW
Surr: 4-Bromofluorobenzene	NWTPH-GX		98.7		1	50 - 150	%Rec		12/08/21 17:45 TJW

**QUALIFIERS**

CI	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	MI	Recovery outside control limits due to Matrix Interference
ND	Not Detected at the Reporting Limit	PL	Permit Limit

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# Analytical Report

WO#: 21120175  
 Date Reported: 12/20/2021

**CLIENT:** R&D Environmental Solutions  
**Lab ID:** 21120175-10  
**Client Sample ID:** SR-120221-P4@10'  
**Project:** UST Decommission-Sukhwinder S Rai  
**Sample Address:** 2476 Williams Hwy  
 Grants Pass, OR 97527

**Collection Date:** 12/2/2021 1:14:00 PM  
**Received Date:** 12/3/2021 11:11:00 AM  
**Matrix:** SOLID

**Sample Location:** P4@10'

Analyses	Method	NELAP Status	Result	Qual	DF	RL	Units	MCL	Date Analyzed/Analyst
<b>NWTPHDX_S PERCENT MOISTURE</b>									
Percent Moisture	NWTPH		15		1	1.0			12/03/21 17:00 MH
<b>NWTPHDX_S NORTHWEST TPH DX IN SOIL</b>									
TPH as Diesel	NWTPH-DX	A	ND		1	14.4	mg/Kg-dry		12/06/21 22:21 MRH
TPH as Lube Oil	NWTPH-DX	A	ND		1	28.8	mg/Kg-dry		12/06/21 22:21 MRH
Surr: o-Terphenyl	NWTPH-DX		72.3		1	50 - 150	%Rec		12/06/21 22:21 MRH
<b>NORTHWEST TPH GASOLINE IN SOIL</b>									
TPH as Gasoline	NWTPH-GX	A	ND		1	4.78	mg/Kg-dry		12/08/21 18:13 TJW
Surr: 4-Bromofluorobenzene	NWTPH-GX		96.6		1	50 - 150	%Rec		12/08/21 18:13 TJW

**QUALIFIERS**

CI	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	MI	Recovery outside control limits due to Matrix Interference
ND	Not Detected at the Reporting Limit	PL	Permit Limit

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# Analytical Report

WO#: 21120175  
 Date Reported: 12/20/2021

**CLIENT:** R&D Environmental Solutions  
**Lab ID:** 21120175-11  
**Client Sample ID** SR-120221-P5@4'  
**Project:** UST Decommission-Sukhwinder S Rai  
**Sample Address:** 2476 Williams Hwy  
 Grants Pass, OR 97527

**Collection Date:** 12/2/2021 1:35:00 PM  
**Received Date:** 12/3/2021 11:11:00 AM  
**Matrix:** SOLID

**Sample Location:** P5@4'

Analyses	Method	NELAP Status	Result	Qual	DF	RL	Units	MCL	Date Analyzed/Analyst
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### VOLATILE ORGANICS BY EPA 8260B

1,1,1,2-Tetrachloroethane	EPA 8260 B		ND	H N	1	0.0299	mg/Kg-dry		12/17/21 20:27 CSB
1,1,1-Trichloroethane (1,1,1-TCA)	EPA 8260 B		ND	H N	1	0.0299	mg/Kg-dry		12/17/21 20:27 CSB
1,1,2,2-Tetrachloroethane	EPA 8260 B		ND	H N	1	0.0299	mg/Kg-dry		12/17/21 20:27 CSB
1,1,2-Trichloroethane	EPA 8260 B		ND	H N	1	0.0299	mg/Kg-dry		12/17/21 20:27 CSB
1,1-Dichloroethane (1,1-DCA)	EPA 8260 B		ND	H N	1	0.0299	mg/Kg-dry		12/17/21 20:27 CSB
1,1-Dichloroethene (1,1-DCE)	EPA 8260 B		ND	H N	1	0.0299	mg/Kg-dry		12/17/21 20:27 CSB
1,1-Dichloropropene	EPA 8260 B		ND	H N	1	0.0299	mg/Kg-dry		12/17/21 20:27 CSB
1,2,3-Trichlorobenzene	EPA 8260 B		ND	H N	1	0.0598	mg/Kg-dry		12/17/21 20:27 CSB
1,2,3-Trichloropropane	EPA 8260 B		ND	H N	1	0.598	mg/Kg-dry		12/17/21 20:27 CSB
1,2,4-Trichlorobenzene	EPA 8260 B		ND	H N	1	0.0598	mg/Kg-dry		12/17/21 20:27 CSB
1,2,4-Trimethylbenzene	EPA 8260 B		5.39	H N	1	0.0299	mg/Kg-dry		12/17/21 20:27 CSB
1,2-Dibromo-3-chloropropane	EPA 8260 B		ND	H N	1	0.598	mg/Kg-dry		12/17/21 20:27 CSB
1,2-Dibromoethane (EDB)	EPA 8260 B		ND	H N	1	0.0299	mg/Kg-dry		12/17/21 20:27 CSB
1,2-Dichlorobenzene	EPA 8260 B		ND	H N	1	0.0299	mg/Kg-dry		12/17/21 20:27 CSB
1,2-Dichloroethane (EDC)	EPA 8260 B		ND	H N	1	0.0299	mg/Kg-dry		12/17/21 20:27 CSB
1,2-Dichloropropane	EPA 8260 B		ND	H N	1	0.0299	mg/Kg-dry		12/17/21 20:27 CSB
1,3,5-Trimethylbenzene	EPA 8260 B		1.55	H N	1	0.0299	mg/Kg-dry		12/17/21 20:27 CSB
1,3-Dichlorobenzene	EPA 8260 B		ND	H N	1	0.0299	mg/Kg-dry		12/17/21 20:27 CSB
1,3-Dichloropropane	EPA 8260 B		ND	H N	1	0.0299	mg/Kg-dry		12/17/21 20:27 CSB
1,4-Dichlorobenzene	EPA 8260 B		ND	H N	1	0.0299	mg/Kg-dry		12/17/21 20:27 CSB
2,2-Dichloropropane	EPA 8260 B		ND	H N	1	0.0299	mg/Kg-dry		12/17/21 20:27 CSB
2-Butanone (MEK)	EPA 8260 B		ND	H N	1	1.20	mg/Kg-dry		12/17/21 20:27 CSB
2-Chlorotoluene	EPA 8260 B		ND	H N	1	0.0299	mg/Kg-dry		12/17/21 20:27 CSB
2-Hexanone	EPA 8260 B		ND	H N	1	1.20	mg/Kg-dry		12/17/21 20:27 CSB
4-Chlorotoluene	EPA 8260 B		ND	H N	1	0.0299	mg/Kg-dry		12/17/21 20:27 CSB
4-Isopropyltoluene	EPA 8260 B		0.125	H N	1	0.0299	mg/Kg-dry		12/17/21 20:27 CSB
4-Methyl-2-pentanone (MIBK)	EPA 8260 B		ND	H N	1	1.20	mg/Kg-dry		12/17/21 20:27 CSB
Acetone	EPA 8260 B		ND	H N	1	1.20	mg/Kg-dry		12/17/21 20:27 CSB
Benzene	EPA 8260 B		ND	H N	1	0.0209	mg/Kg-dry		12/17/21 20:27 CSB

**QUALIFIERS**

CI	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	MI	Recovery outside control limits due to Matrix Interference
ND	Not Detected at the Reporting Limit	PL	Permit Limit

Original

**NELAP**

NELAP A Accredited in accordance with NELAP ORELAP 100016, OR-028



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 Website: www.nrclabs.com

# Analytical Report

WO#: 21120175  
 Date Reported: 12/20/2021

**CLIENT:** R&D Environmental Solutions  
**Lab ID:** 21120175-11  
**Client Sample ID** SR-120221-P5@4'  
**Project:** UST Decommission-Sukhwinder S Rai  
**Sample Address:** 2476 Williams Hwy  
 Grants Pass, OR 97527

**Collection Date:** 12/2/2021 1:35:00 PM  
**Received Date:** 12/3/2021 11:11:00 AM  
**Matrix:** SOLID

**Sample Location:** P5@4'

Analyses	Method	NELAP Status	Result	Qual	DF	RL	Units	MCL	Date Analyzed/Analyst
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### VOLATILE ORGANICS BY EPA 8260B

Bromobenzene	EPA 8260 B		ND	H N	1	0.0299	mg/Kg-dry		12/17/21 20:27 CSB
Bromochloromethane	EPA 8260 B		ND	H N	1	0.0299	mg/Kg-dry		12/17/21 20:27 CSB
Bromodichloromethane	EPA 8260 B		ND	H N	1	0.0299	mg/Kg-dry		12/17/21 20:27 CSB
Bromoform	EPA 8260 B		ND	H N	1	0.0299	mg/Kg-dry		12/17/21 20:27 CSB
Bromomethane	EPA 8260 B		ND	H N	1	0.299	mg/Kg-dry		12/17/21 20:27 CSB
Carbon disulfide	EPA 8260 B		ND	H N	1	0.0747	mg/Kg-dry		12/17/21 20:27 CSB
Carbon tetrachloride	EPA 8260 B		ND	H N	1	0.0299	mg/Kg-dry		12/17/21 20:27 CSB
Chlorobenzene	EPA 8260 B		ND	H N	1	0.0299	mg/Kg-dry		12/17/21 20:27 CSB
Chloroethane	EPA 8260 B		ND	H N	1	0.120	mg/Kg-dry		12/17/21 20:27 CSB
Chloroform	EPA 8260 B		ND	H N	1	0.0299	mg/Kg-dry		12/17/21 20:27 CSB
Chloromethane	EPA 8260 B		ND	QH N	1	0.0299	mg/Kg-dry		12/17/21 20:27 CSB
cis-1,2-Dichloroethylene	EPA 8260 B		ND	H N	1	0.0299	mg/Kg-dry		12/17/21 20:27 CSB
cis-1,3-Dichloropropene	EPA 8260 B		ND	H N	1	0.0299	mg/Kg-dry		12/17/21 20:27 CSB
Dibromochloromethane	EPA 8260 B		ND	H N	1	0.0299	mg/Kg-dry		12/17/21 20:27 CSB
Dibromomethane	EPA 8260 B		ND	H N	1	0.0299	mg/Kg-dry		12/17/21 20:27 CSB
Dichlorodifluoromethane (Freon 12)	EPA 8260 B		ND	QH N	1	0.120	mg/Kg-dry		12/17/21 20:27 CSB
Ethylbenzene	EPA 8260 B		0.0944	H N	1	0.0299	mg/Kg-dry		12/17/21 20:27 CSB
Hexachlorobutadiene	EPA 8260 B		ND	H N	1	0.299	mg/Kg-dry		12/17/21 20:27 CSB
Isopropylbenzene	EPA 8260 B		0.0681	H N	1	0.0299	mg/Kg-dry		12/17/21 20:27 CSB
Methyl tert-butyl ether	EPA 8260 B		ND	H N	1	0.0299	mg/Kg-dry		12/17/21 20:27 CSB
Methylene chloride	EPA 8260 B		ND	H N	1	0.120	mg/Kg-dry		12/17/21 20:27 CSB
n-Butylbenzene	EPA 8260 B		0.781	H N	1	0.0299	mg/Kg-dry		12/17/21 20:27 CSB
n-Propylbenzene	EPA 8260 B		0.407	H N	1	0.0299	mg/Kg-dry		12/17/21 20:27 CSB
Naphthalene	EPA 8260 B		2.61	H N	1	0.0598	mg/Kg-dry		12/17/21 20:27 CSB
sec-Butylbenzene	EPA 8260 B		0.149	H N	1	0.0299	mg/Kg-dry		12/17/21 20:27 CSB
Styrene	EPA 8260 B		ND	H N	1	0.0299	mg/Kg-dry		12/17/21 20:27 CSB
tert-Butylbenzene	EPA 8260 B		ND	H N	1	0.0299	mg/Kg-dry		12/17/21 20:27 CSB
Tetrachloroethene (PCE)	EPA 8260 B		ND	H N	1	0.0299	mg/Kg-dry		12/17/21 20:27 CSB
Toluene	EPA 8260 B		ND	H N	1	0.0598	mg/Kg-dry		12/17/21 20:27 CSB

**QUALIFIERS**

CI	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	MI	Recovery outside control limits due to Matrix Interference
ND	Not Detected at the Reporting Limit	PL	Permit Limit

Original

**NELAP**

NELAP A Accredited in accordance with NELAP ORELAP 100016, OR-028



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# Analytical Report

WO#: 21120175  
 Date Reported: 12/20/2021

**CLIENT:** R&D Environmental Solutions  
**Lab ID:** 21120175-11  
**Client Sample ID** SR-120221-P5@4'  
**Project:** UST Decommission-Sukhwinder S Rai  
**Sample Address:** 2476 Williams Hwy  
 Grants Pass, OR 97527

**Collection Date:** 12/2/2021 1:35:00 PM  
**Received Date:** 12/3/2021 11:11:00 AM  
**Matrix:** SOLID

**Sample Location:** P5@4'

Analyses	Method	NELAP Status	Result	Qual	DF	RL	Units	MCL	Date Analyzed/Analyst
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### VOLATILE ORGANICS BY EPA 8260B

trans-1,2-Dichloroethylene	EPA 8260 B		ND	H N	1	0.0299	mg/Kg-dry		12/17/21 20:27 CSB
trans-1,3-Dichloropropene	EPA 8260 B		ND	H N	1	0.0299	mg/Kg-dry		12/17/21 20:27 CSB
Trichloroethene (TCE)	EPA 8260 B		ND	H N	1	0.299	mg/Kg-dry		12/17/21 20:27 CSB
Trichlorofluoromethane (Freon 11)	EPA 8260 B		ND	H N	1	0.0299	mg/Kg-dry		12/17/21 20:27 CSB
Vinyl chloride	EPA 8260 B		ND	H N	1	0.0299	mg/Kg-dry		12/17/21 20:27 CSB
Xylenes, Total	EPA 8260 B		0.251	H N	1	0.0598	mg/Kg-dry		12/17/21 20:27 CSB
Surr: 1,2-Dichlorobenzene-d4	EPA 8260 B		87.5	H	1	50 - 106	%Rec		12/17/21 20:27 CSB
Surr: 4-Bromofluorobenzene	EPA 8260 B		92.8	H	1	39 - 144	%Rec		12/17/21 20:27 CSB
Surr: Dibromofluoromethane	EPA 8260 B		82.1	H	1	45 - 140	%Rec		12/17/21 20:27 CSB
Surr: Toluene-d8	EPA 8260 B		90.4	H	1	50 - 153	%Rec		12/17/21 20:27 CSB

### NWTPHDX\_S PERCENT MOISTURE

Percent Moisture	NWTPH		12		1	1.0			12/03/21 17:00 MH
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### NWTPHDX\_S NORTHWEST TPH DX IN SOIL

Diesel Range (C12 - C24)	NWTPH-DX	A	80.5		1	14.0	mg/Kg-dry		12/06/21 22:46 MRH
TPH as Lube Oil	NWTPH-DX	A	ND		1	28.0	mg/Kg-dry		12/06/21 22:46 MRH
Surr: o-Terphenyl	NWTPH-DX		85.9		1	50 - 150	%Rec		12/06/21 22:46 MRH

### NORTHWEST TPH GASOLINE IN SOIL

Gasoline Range (C6 - C12)	NWTPH-GX	A	291		2	9.97	mg/Kg-dry		12/09/21 10:37 TJW
Surr: 4-Bromofluorobenzene	NWTPH-GX		129		1	50 - 150	%Rec		12/09/21 8:48 TJW

### QUALIFIERS

CI	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	MI	Recovery outside control limits due to Matrix Interference
ND	Not Detected at the Reporting Limit	PL	Permit Limit

Original

**NELAP** NELAP A Accredited in accordance with NELAP ORELAP 100016, OR-028



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# Analytical Report

WO#: 21120175  
 Date Reported: 12/20/2021

**CLIENT:** R&D Environmental Solutions  
**Lab ID:** 21120175-12  
**Client Sample ID:** SR-120221-P5@7'  
**Project:** UST Decommission-Sukhwinder S Rai  
**Sample Address:** 2476 Williams Hwy  
 Grants Pass, OR 97527

**Collection Date:** 12/2/2021 1:40:00 PM  
**Received Date:** 12/3/2021 11:11:00 AM  
**Matrix:** SOLID

**Sample Location:** P5@7'

Analyses	Method	NELAP Status	Result	Qual	DF	RL	Units	MCL	Date Analyzed/Analyst
<b>NWTPHDX_S PERCENT MOISTURE</b>									
Percent Moisture	NWTPH		14		1	1.0			12/03/21 17:00 MH
<b>NWTPHDX_S NORTHWEST TPH DX IN SOIL</b>									
TPH as Diesel	NWTPH-DX	A	ND		1	13.3	mg/Kg-dry		12/06/21 23:12 MRH
TPH as Lube Oil	NWTPH-DX	A	ND		1	26.5	mg/Kg-dry		12/06/21 23:12 MRH
Surr: o-Terphenyl	NWTPH-DX		67.3		1	50 - 150	%Rec		12/06/21 23:12 MRH
<b>NORTHWEST TPH GASOLINE IN SOIL</b>									
TPH as Gasoline	NWTPH-GX	A	ND		1	5.65	mg/Kg-dry		12/09/21 9:15 TJW
Surr: 4-Bromofluorobenzene	NWTPH-GX		96.7		1	50 - 150	%Rec		12/09/21 9:15 TJW

**QUALIFIERS**

CI	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	MI	Recovery outside control limits due to Matrix Interference
ND	Not Detected at the Reporting Limit	PL	Permit Limit

Original

**NELAP**

NELAP A Accredited in accordance with NELAP ORELAP 100016, OR-028



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# Analytical Report

WO#: 21120175  
 Date Reported: 12/20/2021

**CLIENT:** R&D Environmental Solutions  
**Lab ID:** 21120175-13  
**Client Sample ID:** SR-120221-P6@4'  
**Project:** UST Decommission-Sukhwinder S Rai  
**Sample Address:** 2476 Williams Hwy  
 Grants Pass, OR 97527

**Collection Date:** 12/2/2021 2:24:00 PM  
**Received Date:** 12/3/2021 11:11:00 AM  
**Matrix:** AQUEOUS

**Sample Location:** P6@4'

Analyses	Method	NELAP Status	Result	Qual	DF	RL	Units	MCL	Date Analyzed/Analyst
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**METALS BY EPA 6010 B ICP**

Lead	EPA 6010 B		ND		1	4.81	mg/Kg		12/07/21 20:08 SJS
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**QUALIFIERS**

CI	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	MI	Recovery outside control limits due to Matrix Interference
ND	Not Detected at the Reporting Limit	PL	Permit Limit

Original

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# QC SUMMARY REPORT

WO#: 21120175  
 20-Dec-21

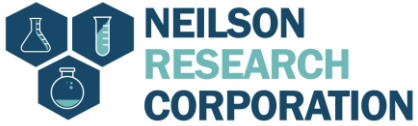
**Client:** R&D Environmental Solutions  
**Project:** UST Decommission-Sukhwinder S Rai

**TestCode:** EPA8260\_3550\_S

Sample ID: <b>LCS-15037</b>	SampType: <b>LCS</b>	TestCode: <b>EPA8260_355</b>	Units: <b>mg/Kg</b>	Prep Date: <b>12/3/2021</b>	RunNo: <b>26712</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>15037</b>	TestNo: <b>SW8260B</b>	<b>E3550B</b>	Analysis Date: <b>12/17/2021</b>	SeqNo: <b>429964</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	1.13	0.0250	1.000	0	113	64	129				
1,1,1-Trichloroethane (1,1,1-TCA)	1.17	0.0250	1.000	0	117	70	140				
1,1,2,2-Tetrachloroethane	1.07	0.0250	1.000	0	107	63	123				
1,1,2-Trichloroethane	1.11	0.0250	1.000	0	111	71	123				
1,1-Dichloroethane (1,1-DCA)	1.28	0.0250	1.000	0	128	64	137				
1,1-Dichloroethene (1,1-DCE)	1.30	0.0250	1.000	0	130	68	140				
1,1-Dichloropropene	1.23	0.0250	1.000	0	123	72	139				
1,2,3-Trichlorobenzene	1.04	0.0500	1.000	0	104	41	146				
1,2,3-Trichloropropane	1.07	0.500	1.000	0	107	64	123				
1,2,4-Trichlorobenzene	1.08	0.0500	1.000	0	108	55	128				
1,2,4-Trimethylbenzene	1.17	0.0250	1.000	0	117	64	140				
1,2-Dibromo-3-chloropropane	0.884	0.500	1.000	0	88.4	58	116				
1,2-Dibromoethane (EDB)	1.13	0.0250	1.000	0	113	68	127				
1,2-Dichlorobenzene	1.11	0.0250	1.000	0	111	68	121				
1,2-Dichloroethane (EDC)	1.24	0.0250	1.000	0	124	68	124				
1,2-Dichloropropane	1.17	0.0250	1.000	0	117	70	129				
1,3,5-Trimethylbenzene	1.19	0.0250	1.000	0	119	68	136				
1,3-Dichlorobenzene	1.14	0.0250	1.000	0	114	67	123				
1,3-Dichloropropane	1.15	0.0250	1.000	0	115	70	123				
1,4-Dichlorobenzene	1.14	0.0250	1.000	0	114	64	119				
2,2-Dichloropropane	1.24	0.0250	1.000	0	124	63	143				
2-Butanone (MEK)	2.42	1.00	2.000	0	121	60	138				
2-Chlorotoluene	1.17	0.0250	1.000	0	117	69	129				
2-Hexanone	1.98	1.00	2.000	0	99.1	61	127				
4-Chlorotoluene	1.16	0.0250	1.000	0	116	69	130				
4-Isopropyltoluene	1.14	0.0250	1.000	0	114	66	135				

**Qualifiers:** C1 Sample container temperature is out of limit as specified at testcode E Value above quantitation range H Holding times for preparation or analysis exceed  
 MI Recovery outside control limits due to Matrix Interference ND Not Detected at the Reporting Limit PL Permit Limit  
 RL Reporting Detection Limit

Original



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# QC SUMMARY REPORT

WO#: 21120175  
 20-Dec-21

**Client:** R&D Environmental Solutions  
**Project:** UST Decommission-Sukhwinder S Rai

**TestCode:** EPA8260\_3550\_S

Sample ID:	SampType:	TestCode:	Units:	Prep Date:	RunNo:						
LCS-15037	LCS	EPA8260_355	mg/Kg	12/3/2021	26712						
Client ID:	Batch ID:	TestNo:		Analysis Date:	SeqNo:						
LCSS	15037	SW8260B	E3550B	12/17/2021	429964						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Methyl-2-pentanone (MIBK)	2.05	1.00	2.000	0	103	63	126				
Acetone	2.49	1.00	2.000	0	125	53	134				
Benzene	1.22	0.0175	1.000	0	122	64	135				
Bromobenzene	1.11	0.0250	1.000	0	111	68	123				
Bromochloromethane	1.14	0.0250	1.000	0	114	55	138				
Bromodichloromethane	1.06	0.0250	1.000	0	106	62	130				
Bromoform	0.842	0.0250	1.000	0	84.2	55	119				
Bromomethane	0.546	0.250	1.000	0	54.6	10	140				
Carbon disulfide	1.06	0.0625	1.000	0	106	47	146				
Carbon tetrachloride	1.12	0.0250	1.000	0	112	63	141				
Chlorobenzene	1.15	0.0250	1.000	0	115	70	125				
Chloroethane	0.647	0.100	1.000	0	64.7	20	130				
Chloroform	1.16	0.0250	1.000	0	116	70	131				
Chloromethane	1.53	0.0250	1.000	0	153	57	140				SQ
cis-1,2-Dichloroethylene	1.18	0.0250	1.000	0	118	70	133				
cis-1,3-Dichloropropene	1.16	0.0250	1.000	0	116	66	129				
Dibromochloromethane	0.943	0.0250	1.000	0	94.3	59	125				
Dibromomethane	1.15	0.0250	1.000	0	115	67	124				
Dichlorodifluoromethane (Freon 12)	1.52	0.100	1.000	0	152	48	144				SQ
Ethylbenzene	1.19	0.0250	1.000	0	119	67	139				
Hexachlorobutadiene	0.995	0.250	1.000	0	99.5	61	130				
Isopropylbenzene	1.16	0.0250	1.000	0	116	69	138				
Methyl tert-butyl ether	1.22	0.0250	1.000	0	122	66	128				
Methylene chloride	1.31	0.100	1.000	0	131	71	132				
n-Butylbenzene	1.14	0.0250	1.000	0	114	51	135				
n-Propylbenzene	1.16	0.0250	1.000	0	116	61	137				

**Qualifiers:** C1 Sample container temperature is out of limit as specified at testcode E Value above quantitation range H Holding times for preparation or analysis exceed  
 MI Recovery outside control limits due to Matrix Interference ND Not Detected at the Reporting Limit PL Permit Limit  
 RL Reporting Detection Limit

Original



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# QC SUMMARY REPORT

WO#: 21120175  
 20-Dec-21

**Client:** R&D Environmental Solutions  
**Project:** UST Decommission-Sukhwinder S Rai

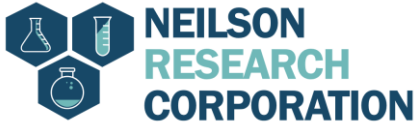
**TestCode:** EPA8260\_3550\_S

Sample ID: <b>LCS-15037</b>	SampType: <b>LCS</b>	TestCode: <b>EPA8260_355</b>	Units: <b>mg/Kg</b>	Prep Date: <b>12/3/2021</b>	RunNo: <b>26712</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>15037</b>	TestNo: <b>SW8260B</b>	<b>E3550B</b>	Analysis Date: <b>12/17/2021</b>	SeqNo: <b>429964</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1.06	0.0500	1.000	0	106	69	137				
sec-Butylbenzene	1.13	0.0250	1.000	0	113	64	145				
Styrene	1.19	0.0250	1.000	0	119	70	131				
tert-Butylbenzene	1.14	0.0250	1.000	0	114	67	130				
Tetrachloroethene (PCE)	1.00	0.0250	1.000	0	100	67	140				
Toluene	1.18	0.0500	1.000	0	118	66	136				
trans-1,2-Dichloroethylene	1.28	0.0250	1.000	0	128	70	136				
trans-1,3-Dichloropropene	1.14	0.0250	1.000	0	114	65	127				
Trichloroethene (TCE)	1.16	0.250	1.000	0	116	71	134				
Trichlorofluoromethane (Freon 11)	0.928	0.0250	1.000	0	92.8	45	148				
Vinyl chloride	1.30	0.0250	1.000	0	130	59	138				
Xylenes, Total	3.52	0.0500	3.000	0	117	67	137				
Surr: 1,2-Dichlorobenzene-d4	3.58		4.000		89.5	65	108				
Surr: 4-Bromofluorobenzene	3.65		4.000		91.2	56	132				
Surr: Dibromofluoromethane	3.48		4.000		87.0	74	133				
Surr: Toluene-d8	3.59		4.000		89.8	71	137				

Sample ID: <b>21120181-01AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA8260_355</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>12/3/2021</b>	RunNo: <b>26712</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>15037</b>	TestNo: <b>SW8260B</b>	<b>E3550B</b>	Analysis Date: <b>12/17/2021</b>	SeqNo: <b>429980</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	21.2	0.780	31.11	0	68.2	53	130				
1,1,1-Trichloroethane (1,1,1-TCA)	25.0	0.780	31.11	0	80.3	60	142				
1,1,2,2-Tetrachloroethane	23.6	0.780	31.11	0	75.7	50	125				

**Qualifiers:** C1 Sample container temperature is out of limit as specified at testcode E Value above quantitation range H Holding times for preparation or analysis exceed  
 MI Recovery outside control limits due to Matrix Interference ND Not Detected at the Reporting Limit PL Permit Limit  
 RL Reporting Detection Limit

Original



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 Website: www.nrclabs.com

# QC SUMMARY REPORT

WO#: 21120175  
 20-Dec-21

**Client:** R&D Environmental Solutions

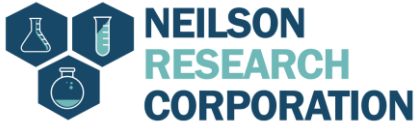
**Project:** UST Decommission-Sukhwinder S Rai

**TestCode:** EPA8260\_3550\_S

Sample ID: <b>21120181-01AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA8260_355</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>12/3/2021</b>	RunNo: <b>26712</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>15037</b>	TestNo: <b>SW8260B</b>	<b>E3550B</b>	Analysis Date: <b>12/17/2021</b>	SeqNo: <b>429980</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,2-Trichloroethane	23.4	0.780	31.11	0	75.1	55	133				
1,1-Dichloroethane (1,1-DCA)	29.0	0.780	31.11	0	93.1	60	136				
1,1-Dichloroethene (1,1-DCE)	32.0	0.780	31.11	0	103	57	142				
1,1-Dichloropropene	26.3	0.780	31.11	0	84.4	58	146				
1,2,3-Trichlorobenzene	23.5	1.56	31.11	0	75.5	10	165				
1,2,3-Trichloropropane	24.8	15.6	31.11	0	79.6	28	163				
1,2,4-Trichlorobenzene	23.7	1.56	31.11	0	76.3	31	142				
1,2,4-Trimethylbenzene	25.5	0.780	31.11	0.3900	80.8	10	195				
1,2-Dibromo-3-chloropropane	ND	15.6	31.11	0	48.7	34	136				
1,2-Dibromoethane (EDB)	23.1	0.780	31.11	0	74.2	53	136				
1,2-Dichlorobenzene	30.7	0.780	31.11	7.551	74.5	51	130				
1,2-Dichloroethane (EDC)	27.2	0.780	31.11	0	87.4	55	131				
1,2-Dichloropropane	23.9	0.780	31.11	0	76.8	58	136				
1,3,5-Trimethylbenzene	25.7	0.780	31.11	0	82.7	31	164				
1,3-Dichlorobenzene	23.8	0.780	31.11	0	76.4	52	130				
1,3-Dichloropropane	24.4	0.780	31.11	0	78.4	56	129				
1,4-Dichlorobenzene	24.3	0.780	31.11	1.030	74.9	50	124				
2,2-Dichloropropane	23.6	0.780	31.11	0	76.0	40	138				
2-Butanone (MEK)	56.6	31.2	62.22	5.070	82.8	56	137				
2-Hexanone	46.9	31.2	62.22	0	75.3	44	144				
4-Chlorotoluene	46.3	0.780	31.11	20.45	83.1	53	138				
4-Isopropyltoluene	24.8	0.780	31.11	0	79.6	49	142				
4-Methyl-2-pentanone (MIBK)	48.3	31.2	62.22	0	77.6	50	134				
Acetone	60.4	31.2	62.22	0	97.1	50	137				
Benzene	25.2	0.546	31.11	0	80.9	53	141				
Bromobenzene	23.5	0.780	31.11	0	75.4	54	130				

<b>Qualifiers:</b>	C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range	H	Holding times for preparation or analysis exceed
	MI	Recovery outside control limits due to Matrix Interference	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit				

Original



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# QC SUMMARY REPORT

WO#: 21120175  
 20-Dec-21

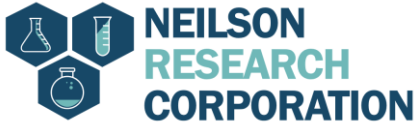
**Client:** R&D Environmental Solutions  
**Project:** UST Decommission-Sukhwinder S Rai

**TestCode:** EPA8260\_3550\_S

Sample ID: <b>21120181-01AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA8260_355</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>12/3/2021</b>	RunNo: <b>26712</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>15037</b>	TestNo: <b>SW8260B</b>	<b>E3550B</b>	Analysis Date: <b>12/17/2021</b>	SeqNo: <b>429980</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromochloromethane	26.3	0.780	31.11	0	84.6	57	131				
Bromodichloromethane	19.4	0.780	31.11	0	62.2	50	132				
Bromomethane	30.8	7.80	31.11	0	99.1	10	148				
Carbon disulfide	16.7	1.95	31.11	0	53.8	45	139				
Carbon tetrachloride	22.4	0.780	31.11	0	72.1	53	142				
Chlorobenzene	23.9	0.780	31.11	0	76.9	57	130				
Chloroethane	29.2	3.12	31.11	0	93.7	10	140				
Chloroform	26.2	0.780	31.11	0	84.3	59	134				
Chloromethane	32.4	0.780	31.11	0	104	30	163				
cis-1,2-Dichloroethylene	26.2	0.780	31.11	0	84.3	59	136				
cis-1,3-Dichloropropene	21.9	0.780	31.11	0	70.3	50	132				
Dibromomethane	23.9	0.780	31.11	0	76.9	52	131				
Dichlorodifluoromethane (Freon 12)	37.8	3.12	31.11	0	121	46	144				
Ethylbenzene	24.9	0.780	31.11	0	80.1	51	148				
Hexachlorobutadiene	24.3	7.80	31.11	0	78.2	33	157				
Isopropylbenzene	25.2	0.780	31.11	0	80.9	48	152				
Methyl tert-butyl ether	26.3	0.780	31.11	0	84.7	50	139				
Methylene chloride	31.5	3.12	31.11	0	101	59	133				
n-Butylbenzene	25.8	0.780	31.11	0	83.0	16	162				
n-Propylbenzene	25.5	0.780	31.11	0	81.8	43	146				
Naphthalene	23.3	1.56	31.11	0	74.9	41	154				
sec-Butylbenzene	25.0	0.780	31.11	0	80.2	49	148				
Styrene	23.9	0.780	31.11	0	76.9	55	139				
tert-Butylbenzene	24.7	0.780	31.11	0	79.5	47	139				
Tetrachloroethene (PCE)	21.3	0.780	31.11	0	68.4	51	161				
Toluene	26.7	1.56	31.11	2.324	78.3	46	150				

<b>Qualifiers:</b>	C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range	H	Holding times for preparation or analysis exceed
	MI	Recovery outside control limits due to Matrix Interference	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit				

Original



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# QC SUMMARY REPORT

WO#: 21120175  
 20-Dec-21

**Client:** R&D Environmental Solutions  
**Project:** UST Decommission-Sukhwinder S Rai

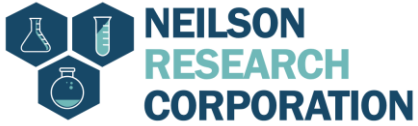
**TestCode:** EPA8260\_3550\_S

Sample ID: <b>21120181-01AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA8260_355</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>12/3/2021</b>	RunNo: <b>26712</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>15037</b>	TestNo: <b>SW8260B</b>	<b>E3550B</b>	Analysis Date: <b>12/17/2021</b>	SeqNo: <b>429980</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,2-Dichloroethylene	29.5	0.780	31.11	0	95.0	60	139				
trans-1,3-Dichloropropene	21.1	0.780	31.11	0	67.9	49	129				
Trichloroethene (TCE)	23.5	7.80	31.11	0	75.5	59	140				
Trichlorofluoromethane (Freon 11)	27.8	0.780	31.11	0	89.5	46	148				
Vinyl chloride	29.7	0.780	31.11	0	95.5	51	147				
Xylenes, Total	73.3	1.56	93.33	0	78.6	42	152				
Surr: 1,2-Dichlorobenzene-d4	63.1		62.22		101	28	156				
Surr: 4-Bromofluorobenzene	67.1		62.22		108	37	138				
Surr: Dibromofluoromethane	61.6		62.22		99.1	45	148				
Surr: Toluene-d8	64.0		62.22		103	29	155				

Sample ID: <b>21120181-01AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA8260_355</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>12/3/2021</b>	RunNo: <b>26712</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>15037</b>	TestNo: <b>SW8260B</b>	<b>E3550B</b>	Analysis Date: <b>12/17/2021</b>	SeqNo: <b>429981</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	28.1	0.780	31.11	0	90.5	53	130	21.23	28.0	48	
1,1,1-Trichloroethane (1,1,1-TCA)	32.0	0.780	31.11	0	103	60	142	24.98	24.8	36	
1,1,2,2-Tetrachloroethane	29.6	0.780	31.11	0	95.0	50	125	23.56	22.6	36	
1,1,2-Trichloroethane	30.0	0.780	31.11	0	96.3	55	133	23.35	24.8	35	
1,1-Dichloroethane (1,1-DCA)	36.9	0.780	31.11	0	119	60	136	28.95	24.2	36	
1,1-Dichloroethene (1,1-DCE)	40.5	0.780	31.11	0	130	57	142	32.00	23.4	35	
1,1-Dichloropropene	33.6	0.780	31.11	0	108	58	146	26.26	24.5	37	
1,2,3-Trichlorobenzene	29.4	1.56	31.11	0	94.4	10	165	23.48	22.3	57	
1,2,3-Trichloropropane	31.1	15.6	31.11	0	99.9	28	163	24.76	22.6	38	

**Qualifiers:** C1 Sample container temperature is out of limit as specified at testcode E Value above quantitation range H Holding times for preparation or analysis exceed  
 MI Recovery outside control limits due to Matrix Interference ND Not Detected at the Reporting Limit PL Permit Limit  
 RL Reporting Detection Limit

Original



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# QC SUMMARY REPORT

WO#: 21120175  
 20-Dec-21

**Client:** R&D Environmental Solutions  
**Project:** UST Decommission-Sukhwinder S Rai

**TestCode:** EPA8260\_3550\_S

Sample ID:	21120181-01AMSD	SampType:	MSD	TestCode:	EPA8260_355	Units:	mg/Kg-dry	Prep Date:	12/3/2021	RunNo:	26712
Client ID:	BatchQC	Batch ID:	15037	TestNo:	SW8260B	E3550B		Analysis Date:	12/17/2021	SeqNo:	429981
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	30.0	1.56	31.11	0	96.3	31	142	23.73	23.2	47	
1,2,4-Trimethylbenzene	32.4	0.780	31.11	0.3900	103	10	195	25.52	23.9	40	
1,2-Dibromo-3-chloropropane	21.3	15.6	31.11	0	68.5	34	136	15.15	33.8	42	
1,2-Dibromoethane (EDB)	30.2	0.780	31.11	0	97.1	53	136	23.09	26.7	38	
1,2-Dichlorobenzene	37.6	0.780	31.11	7.551	96.5	51	130	30.73	20.0	34	
1,2-Dichloroethane (EDC)	34.9	0.780	31.11	0	112	55	131	27.19	24.8	35	
1,2-Dichloropropane	31.2	0.780	31.11	0	100	58	136	23.88	26.7	37	
1,3,5-Trimethylbenzene	32.6	0.780	31.11	0	105	31	164	25.73	23.6	39	
1,3-Dichlorobenzene	30.1	0.780	31.11	0	96.6	52	130	23.76	23.4	38	
1,3-Dichloropropane	31.0	0.780	31.11	0	99.8	56	129	24.40	24.0	36	
1,4-Dichlorobenzene	30.7	0.780	31.11	1.030	95.5	50	124	24.32	23.3	38	
2,2-Dichloropropane	29.9	0.780	31.11	0	96.1	40	138	23.63	23.4	39	
2-Butanone (MEK)	70.9	31.2	62.22	5.070	106	56	137	56.58	22.4	49	
2-Hexanone	60.0	31.2	62.22	0	96.4	44	144	46.86	24.6	39	
4-Chlorotoluene	53.8	0.780	31.11	20.45	107	53	138	46.32	15.0	37	
4-Isopropyltoluene	31.7	0.780	31.11	0	102	49	142	24.76	24.5	46	
4-Methyl-2-pentanone (MIBK)	61.5	31.2	62.22	0	98.8	50	134	48.31	24.0	39	
Acetone	77.1	31.2	62.22	0	124	50	137	60.44	24.2	43	
Benzene	32.0	0.546	31.11	0	103	53	141	25.18	23.9	46	
Bromobenzene	29.7	0.780	31.11	0	95.5	54	130	23.46	23.5	36	
Bromochloromethane	33.7	0.780	31.11	0	108	57	131	26.33	24.5	36	
Bromodichloromethane	26.3	0.780	31.11	0	84.5	50	132	19.36	30.3	36	
Bromoform	16.7	0.780	31.11	0	53.6	42	119	12.26	30.5	38	
Bromomethane	32.7	7.80	31.11	0	105	10	148	30.83	5.89	66	
Carbon disulfide	22.9	1.95	31.11	0	73.6	45	139	16.74	31.0	39	
Carbon tetrachloride	29.0	0.780	31.11	0	93.1	53	142	22.43	25.4	37	

**Qualifiers:** CI Sample container temperature is out of limit as specified at testcode E Value above quantitation range H Holding times for preparation or analysis exceed  
 MI Recovery outside control limits due to Matrix Interference ND Not Detected at the Reporting Limit PL Permit Limit  
 RL Reporting Detection Limit

Original



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# QC SUMMARY REPORT

WO#: 21120175  
 20-Dec-21

**Client:** R&D Environmental Solutions  
**Project:** UST Decommission-Sukhwinder S Rai

**TestCode:** EPA8260\_3550\_S

Sample ID:	21120181-01AMSD	SampType:	MSD	TestCode:	EPA8260_355	Units:	mg/Kg-dry	Prep Date:	12/3/2021	RunNo:	26712
Client ID:	BatchQC	Batch ID:	15037	TestNo:	SW8260B	E3550B		Analysis Date:	12/17/2021	SeqNo:	429981
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	30.3	0.780	31.11	0	97.5	57	130	23.92	23.7	35	
Chloroethane	30.6	3.12	31.11	0	98.5	10	140	29.16	4.96	44	
Chloroform	33.4	0.780	31.11	0	107	59	134	26.22	23.9	35	
Chloromethane	34.1	0.780	31.11	0	110	30	163	32.45	5.11	51	
cis-1,2-Dichloroethylene	33.9	0.780	31.11	0	109	59	136	26.22	25.6	35	
cis-1,3-Dichloropropene	28.9	0.780	31.11	0	92.8	50	132	21.86	27.7	37	
Dibromochloromethane	20.8	0.780	31.11	0	66.8	48	124	14.93	32.8	37	
Dibromomethane	31.0	0.780	31.11	0	99.6	52	131	23.92	25.7	34	
Dichlorodifluoromethane (Freon 12)	39.1	3.12	31.11	0	126	46	144	37.80	3.41	55	
Ethylbenzene	31.9	0.780	31.11	0	103	51	148	24.93	24.5	46	
Hexachlorobutadiene	32.0	7.80	31.11	0	103	33	157	24.32	27.2	47	
Isopropylbenzene	31.6	0.780	31.11	0	102	48	152	25.18	22.7	38	
Methyl tert-butyl ether	33.6	0.780	31.11	0	108	50	139	26.35	24.3	37	
Methylene chloride	40.0	3.12	31.11	0	128	59	133	31.54	23.6	36	
n-Butylbenzene	32.8	0.780	31.11	0	105	16	162	25.83	23.8	45	
n-Propylbenzene	32.1	0.780	31.11	0	103	43	146	25.46	23.0	41	
Naphthalene	30.0	1.56	31.11	0	96.3	41	154	23.29	25.0	39	
sec-Butylbenzene	31.5	0.780	31.11	0	101	49	148	24.96	23.3	45	
Styrene	30.8	0.780	31.11	0	99.1	55	139	23.92	25.2	37	
tert-Butylbenzene	31.3	0.780	31.11	0	101	47	139	24.74	23.5	33	
Tetrachloroethene (PCE)	26.3	0.780	31.11	0	84.5	51	161	21.28	21.1	40	
Toluene	33.8	1.56	31.11	2.324	101	46	150	26.69	23.5	46	
trans-1,2-Dichloroethylene	37.1	0.780	31.11	0	119	60	139	29.55	22.7	35	
trans-1,3-Dichloropropene	28.3	0.780	31.11	0	91.1	49	129	21.14	29.1	36	
Trichloroethene (TCE)	30.5	7.80	31.11	0	97.9	59	140	23.48	25.9	37	
Trichlorofluoromethane (Freon 11)	29.3	0.780	31.11	0	94.0	46	148	27.83	4.97	45	

<b>Qualifiers:</b>	C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range	H	Holding times for preparation or analysis exceed
	MI	Recovery outside control limits due to Matrix Interference	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit				

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 Website: www.nrclabs.com

# QC SUMMARY REPORT

WO#: 21120175  
 20-Dec-21

**Client:** R&D Environmental Solutions  
**Project:** UST Decommission-Sukhwinder S Rai

**TestCode:** EPA8260\_3550\_S

Sample ID: <b>21120181-01AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA8260_355</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>12/3/2021</b>	RunNo: <b>26712</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>15037</b>	TestNo: <b>SW8260B</b>	<b>E3550B</b>	Analysis Date: <b>12/17/2021</b>	SeqNo: <b>429981</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	31.4	0.780	31.11	0	101	51	147	29.70	5.62	50	
Xylenes, Total	93.1	1.56	93.33	0	99.7	42	152	73.32	23.7	46	
Surr: 1,2-Dichlorobenzene-d4	64.3		62.22		103	28	156		0	0	
Surr: 4-Bromofluorobenzene	67.8		62.22		109	37	138		0	0	
Surr: Dibromofluoromethane	62.9		62.22		101	45	148		0	0	
Surr: Toluene-d8	65.2		62.22		105	29	155		0	0	

Sample ID: <b>MB-15037</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA8260_355</b>	Units: <b>mg/Kg</b>	Prep Date: <b>12/3/2021</b>	RunNo: <b>26712</b>						
Client ID: <b>PBS</b>	Batch ID: <b>15037</b>	TestNo: <b>SW8260B</b>	<b>E3550B</b>	Analysis Date: <b>12/17/2021</b>	SeqNo: <b>429982</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.0250									
1,1,1-Trichloroethane (1,1,1-TCA)	ND	0.0250									
1,1,2,2-Tetrachloroethane	ND	0.0250									
1,1,2-Trichloroethane	ND	0.0250									
1,1-Dichloroethane (1,1-DCA)	ND	0.0250									
1,1-Dichloroethene (1,1-DCE)	ND	0.0250									
1,1-Dichloropropene	ND	0.0250									
1,2,3-Trichlorobenzene	ND	0.0500									
1,2,3-Trichloropropane	ND	0.500									
1,2,4-Trichlorobenzene	ND	0.0500									
1,2,4-Trimethylbenzene	ND	0.0250									
1,2-Dibromoethane (EDB)	ND	0.0250									
1,2-Dichlorobenzene	ND	0.0250									

**Qualifiers:** C1 Sample container temperature is out of limit as specified at testcode E Value above quantitation range H Holding times for preparation or analysis exceed  
 MI Recovery outside control limits due to Matrix Interference ND Not Detected at the Reporting Limit PL Permit Limit  
 RL Reporting Detection Limit

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# QC SUMMARY REPORT

WO#: 21120175  
 20-Dec-21

**Client:** R&D Environmental Solutions

**Project:** UST Decommission-Sukhwinder S Rai

**TestCode:** EPA8260\_3550\_S

Sample ID: <b>MB-15037</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA8260_355</b>	Units: <b>mg/Kg</b>	Prep Date: <b>12/3/2021</b>	RunNo: <b>26712</b>						
Client ID: <b>PBS</b>	Batch ID: <b>15037</b>	TestNo: <b>SW8260B</b>	<b>E3550B</b>	Analysis Date: <b>12/17/2021</b>	SeqNo: <b>429982</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane (EDC)	ND	0.0250									
1,2-Dichloropropane	ND	0.0250									
1,3,5-Trimethylbenzene	ND	0.0250									
1,3-Dichlorobenzene	ND	0.0250									
1,3-Dichloropropane	ND	0.0250									
1,4-Dichlorobenzene	ND	0.0250									
2,2-Dichloropropane	ND	0.0250									
2-Butanone (MEK)	ND	1.00									
2-Chlorotoluene	ND	0.0250									
2-Hexanone	ND	1.00									
4-Chlorotoluene	ND	0.0250									
4-Isopropyltoluene	ND	0.0250									
4-Methyl-2-pentanone (MIBK)	ND	1.00									
Acetone	ND	1.00									
Benzene	ND	0.0175									
Bromobenzene	ND	0.0250									
Bromochloromethane	ND	0.0250									
Bromomethane	ND	0.250									
Carbon tetrachloride	ND	0.0250									
Chlorobenzene	ND	0.0250									
Chloroethane	ND	0.100									
Chloroform	ND	0.0250									
Chloromethane	ND	0.0250									
cis-1,2-Dichloroethylene	ND	0.0250									
cis-1,3-Dichloropropene	ND	0.0250									
Dibromomethane	ND	0.0250									

<b>Qualifiers:</b>	C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range	H	Holding times for preparation or analysis exceed
	MI	Recovery outside control limits due to Matrix Interference	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit				

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# QC SUMMARY REPORT

WO#: 21120175  
 20-Dec-21

**Client:** R&D Environmental Solutions  
**Project:** UST Decommission-Sukhwinder S Rai

**TestCode:** EPA8260\_3550\_S

Sample ID: <b>MB-15037</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA8260_355</b>	Units: <b>mg/Kg</b>	Prep Date: <b>12/3/2021</b>	RunNo: <b>26712</b>						
Client ID: <b>PBS</b>	Batch ID: <b>15037</b>	TestNo: <b>SW8260B</b>	<b>E3550B</b>	Analysis Date: <b>12/17/2021</b>	SeqNo: <b>429982</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane (Freon 12)	ND	0.100									
Ethylbenzene	ND	0.0250									
Hexachlorobutadiene	ND	0.250									
Isopropylbenzene	ND	0.0250									
Methyl tert-butyl ether	ND	0.0250									
Methylene chloride	ND	0.100									
n-Butylbenzene	ND	0.0250									
n-Propylbenzene	ND	0.0250									
Naphthalene	ND	0.0500									
sec-Butylbenzene	ND	0.0250									
Styrene	ND	0.0250									
tert-Butylbenzene	ND	0.0250									
Toluene	ND	0.0500									
trans-1,2-Dichloroethylene	ND	0.0250									
trans-1,3-Dichloropropene	ND	0.0250									
Trichloroethene (TCE)	ND	0.250									
Trichlorofluoromethane (Freon 11)	ND	0.0250									
Vinyl chloride	ND	0.0250									
Xylenes, Total	ND	0.0500									
Surr: 1,2-Dichlorobenzene-d4	3.55		4.000		88.8	65	108				
Surr: 4-Bromofluorobenzene	3.93		4.000		98.2	56	132				
Surr: Dibromofluoromethane	3.52		4.000		88.0	74	133				
Surr: Toluene-d8	3.74		4.000		93.4	71	137				

**Qualifiers:** C1 Sample container temperature is out of limit as specified at testcode E Value above quantitation range H Holding times for preparation or analysis exceed  
 MI Recovery outside control limits due to Matrix Interference ND Not Detected at the Reporting Limit PL Permit Limit  
 RL Reporting Detection Limit

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# QC SUMMARY REPORT

WO#: 21120175  
 20-Dec-21

**Client:** R&D Environmental Solutions  
**Project:** UST Decommission-Sukhwinder S Rai

**TestCode:** EPA8260\_3550\_S

Sample ID: <b>MB-15037</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA8260_355</b>	Units: <b>mg/Kg</b>	Prep Date: <b>12/3/2021</b>	RunNo: <b>26712</b>						
Client ID: <b>PBS</b>	Batch ID: <b>15037</b>	TestNo: <b>SW8260B</b>	<b>E3550B</b>	Analysis Date: <b>12/17/2021</b>	SeqNo: <b>429985</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromo-3-chloropropane	ND	0.500									
Bromodichloromethane	ND	0.0250									
Bromoform	ND	0.0250									
Carbon disulfide	ND	0.0625									
Dibromochloromethane	ND	0.0250									

Sample ID: <b>21120181-01AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA8260_355</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>12/3/2021</b>	RunNo: <b>26714</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>15037</b>	TestNo: <b>SW8260B</b>	<b>E3550B</b>	Analysis Date: <b>12/19/2021</b>	SeqNo: <b>430101</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Chlorotoluene	212	1.56	62.22	191.7	32.0	40	160				MI HP

Sample ID: <b>21120181-01AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA8260_355</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>12/3/2021</b>	RunNo: <b>26714</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>15037</b>	TestNo: <b>SW8260B</b>	<b>E3550B</b>	Analysis Date: <b>12/19/2021</b>	SeqNo: <b>430102</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Chlorotoluene	226	1.56	62.22	191.7	54.6	40	160	211.6	6.44	37	HP

**Qualifiers:** C1 Sample container temperature is out of limit as specified at testcode  
 MI Recovery outside control limits due to Matrix Interference  
 RL Reporting Detection Limit  
 E Value above quantitation range  
 ND Not Detected at the Reporting Limit  
 H Holding times for preparation or analysis exceed  
 PL Permit Limit

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# QC SUMMARY REPORT

WO#: 21120175  
 20-Dec-21

**Client:** R&D Environmental Solutions  
**Project:** UST Decommission-Sukhwinder S Rai

**TestCode:** ICP\_6010\_S

Sample ID: <b>MB-15059</b>	SampType: <b>MBLK</b>	TestCode: <b>ICP_6010_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>12/7/2021</b>	RunNo: <b>26470</b>						
Client ID: <b>PBS</b>	Batch ID: <b>15059</b>	TestNo: <b>SW6010B</b>	<b>SW3050B</b>	Analysis Date: <b>12/7/2021</b>	SeqNo: <b>425255</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 5.00

Sample ID: <b>LCS-15059</b>	SampType: <b>LCS</b>	TestCode: <b>ICP_6010_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>12/7/2021</b>	RunNo: <b>26470</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>15059</b>	TestNo: <b>SW6010B</b>	<b>SW3050B</b>	Analysis Date: <b>12/7/2021</b>	SeqNo: <b>425256</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 111 9.66 130.0 0 85.4 72 128

Sample ID: <b>21120273-02AMS</b>	SampType: <b>MS</b>	TestCode: <b>ICP_6010_S</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>12/7/2021</b>	RunNo: <b>26470</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>15059</b>	TestNo: <b>SW6010B</b>	<b>SW3050B</b>	Analysis Date: <b>12/7/2021</b>	SeqNo: <b>425262</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 112 5.63 112.7 34.79 68.6 75 125 MI

Sample ID: <b>21120273-02AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>ICP_6010_S</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>12/7/2021</b>	RunNo: <b>26470</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>15059</b>	TestNo: <b>SW6010B</b>	<b>SW3050B</b>	Analysis Date: <b>12/7/2021</b>	SeqNo: <b>425263</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 113 5.64 112.7 34.79 69.0 75 125 112.1 0.480 25 MI

**Qualifiers:** C1 Sample container temperature is out of limit as specified at testcode  
 E Value above quantitation range  
 H Holding times for preparation or analysis exceed  
 MI Recovery outside control limits due to Matrix Interference  
 ND Not Detected at the Reporting Limit  
 PL Permit Limit  
 RL Reporting Detection Limit

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# QC SUMMARY REPORT

WO#: 21120175  
 20-Dec-21

**Client:** R&D Environmental Solutions  
**Project:** UST Decommission-Sukhwinder S Rai

**TestCode:** NWTPHDX\_S

Sample ID: <b>LCS-15043</b>	SampType: <b>LCS</b>	TestCode: <b>NWTPHDX_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>12/6/2021</b>	RunNo: <b>26428</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>15043</b>	TestNo: <b>NWTPHDX</b>	<b>NWTPHDX</b>	Analysis Date: <b>12/6/2021</b>	SeqNo: <b>424634</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH as Diesel	220	12.5	250.0	0	87.9	50	150				
Surr: o-Terphenyl	4.96		5.000		99.1	50	150				

Sample ID: <b>21120123-01AMS</b>	SampType: <b>MS</b>	TestCode: <b>NWTPHDX_S</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>12/6/2021</b>	RunNo: <b>26428</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>15043</b>	TestNo: <b>NWTPHDX</b>	<b>NWTPHDX</b>	Analysis Date: <b>12/6/2021</b>	SeqNo: <b>424636</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH as Diesel	241	13.1	261.5	0	92.2	50	150				
Surr: o-Terphenyl	5.26		5.231		101	50	150				

Sample ID: <b>21120123-01AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>NWTPHDX_S</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>12/6/2021</b>	RunNo: <b>26428</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>15043</b>	TestNo: <b>NWTPHDX</b>	<b>NWTPHDX</b>	Analysis Date: <b>12/6/2021</b>	SeqNo: <b>424637</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH as Diesel	238	12.9	258.6	0	92.0	50	150	241.1	1.39	25	
Surr: o-Terphenyl	5.24		5.171		101	50	150		0	0	

Sample ID: <b>MB-15043</b>	SampType: <b>MBLK</b>	TestCode: <b>NWTPHDX_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>12/6/2021</b>	RunNo: <b>26428</b>						
Client ID: <b>PBS</b>	Batch ID: <b>15043</b>	TestNo: <b>NWTPHDX</b>	<b>NWTPHDX</b>	Analysis Date: <b>12/6/2021</b>	SeqNo: <b>424661</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH as Diesel	ND	12.5									
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**Qualifiers:**

C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range	H	Holding times for preparation or analysis exceed
MI	Recovery outside control limits due to Matrix Interference	ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Detection Limit				

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# QC SUMMARY REPORT

WO#: 21120175  
 20-Dec-21

**Client:** R&D Environmental Solutions

**Project:** UST Decommission-Sukhwinder S Rai

**TestCode:** NWTPHDX\_S

Sample ID: <b>MB-15043</b>	SampType: <b>MBLK</b>	TestCode: <b>NWTPHDX_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>12/6/2021</b>	RunNo: <b>26428</b>						
Client ID: <b>PBS</b>	Batch ID: <b>15043</b>	TestNo: <b>NWTPHDX</b>	<b>NWTPHDX</b>	Analysis Date: <b>12/6/2021</b>	SeqNo: <b>424661</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH as Lube Oil	ND	25.0									
Surr: o-Terphenyl	3.42		5.000		68.5	50	150				

**Qualifiers:**

C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range	H	Holding times for preparation or analysis exceed
MI	Recovery outside control limits due to Matrix Interference	ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Detection Limit				

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# QC SUMMARY REPORT

WO#: 21120175  
 20-Dec-21

**Client:** R&D Environmental Solutions  
**Project:** UST Decommission-Sukhwinder S Rai

**TestCode:** NWTPHGX\_3550\_S

Sample ID: <b>MB-15038</b>	SampType: <b>MBLK</b>	TestCode: <b>NWTPHGX_3</b>	Units: <b>mg/Kg</b>	Prep Date: <b>12/9/2021</b>	RunNo: <b>26492</b>						
Client ID: <b>PBS</b>	Batch ID: <b>15038</b>	TestNo: <b>NWTPHGX</b>	<b>EPA 3550 B</b>	Analysis Date: <b>12/8/2021</b>	SeqNo: <b>425631</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH as Gasoline ND 5.00  
 Surr: 4-Bromofluorobenzene 2.28 2.000 114 50 150

Sample ID: <b>LCS-15038</b>	SampType: <b>LCS</b>	TestCode: <b>NWTPHGX_3</b>	Units: <b>mg/Kg</b>	Prep Date: <b>12/9/2021</b>	RunNo: <b>26492</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>15038</b>	TestNo: <b>NWTPHGX</b>	<b>EPA 3550 B</b>	Analysis Date: <b>12/8/2021</b>	SeqNo: <b>425632</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH as Gasoline 24.6 5.00 25.00 0 98.5 70 130  
 Surr: 4-Bromofluorobenzene 2.18 2.000 109 50 150

Sample ID: <b>21120175-01AMS</b>	SampType: <b>MS</b>	TestCode: <b>NWTPHGX_3</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>12/3/2021</b>	RunNo: <b>26492</b>						
Client ID: <b>SR-120221-P1@4'</b>	Batch ID: <b>15038</b>	TestNo: <b>NWTPHGX</b>	<b>EPA 3550 B</b>	Analysis Date: <b>12/8/2021</b>	SeqNo: <b>425634</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH as Gasoline 35.6 6.94 34.69 0 103 70 130  
 Surr: 4-Bromofluorobenzene 2.79 2.775 101 50 150

Sample ID: <b>LCSD-15038</b>	SampType: <b>LCSD</b>	TestCode: <b>NWTPHGX_3</b>	Units: <b>mg/Kg</b>	Prep Date: <b>12/9/2021</b>	RunNo: <b>26492</b>						
Client ID: <b>LCSS02</b>	Batch ID: <b>15038</b>	TestNo: <b>NWTPHGX</b>	<b>EPA 3550 B</b>	Analysis Date: <b>12/8/2021</b>	SeqNo: <b>425635</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH as Gasoline 25.9 5.00 25.00 0 104 70 130 24.63 5.14 25

**Qualifiers:** C1 Sample container temperature is out of limit as specified at testcode E Value above quantitation range H Holding times for preparation or analysis exceed  
 MI Recovery outside control limits due to Matrix Interference ND Not Detected at the Reporting Limit PL Permit Limit  
 RL Reporting Detection Limit

Original



Neilson Research Corporation  
 245 S Grape St  
 Medford, OR 97501  
 TEL: (541) 770-5678 FAX: (541) 770-2901  
 Website: www.nrclabs.com

# QC SUMMARY REPORT

WO#: 21120175  
 20-Dec-21

**Client:** R&D Environmental Solutions

**Project:** UST Decommission-Sukhwinder S Rai

**TestCode:** NWTPHGX\_3550\_S

Sample ID: <b>LCSD-15038</b>	SampType: <b>LCSD</b>	TestCode: <b>NWTPHGX_3</b>	Units: <b>mg/Kg</b>	Prep Date: <b>12/9/2021</b>	RunNo: <b>26492</b>						
Client ID: <b>LCSS02</b>	Batch ID: <b>15038</b>	TestNo: <b>NWTPHGX</b>	<b>EPA 3550 B</b>	Analysis Date: <b>12/8/2021</b>	SeqNo: <b>425635</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	2.15		2.000		108	50	150		0	0	

**Qualifiers:**

C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range	H	Holding times for preparation or analysis exceed
MI	Recovery outside control limits due to Matrix Interference	ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Detection Limit				

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# Sample Log-In Check List

Client Name: R&Denv

Work Order Number: 21120175

RcptNo: 1

Logged by:	Sarah Spence	12/3/2021 11:11:00 AM	<i>Sarah Spence</i>
Completed By:	Tamra Schmedemann	12/3/2021 1:16:18 PM	<i>Tamra Schmedemann</i>
Reviewed By:	Tamra Schmedemann	12/3/2021 1:16:26 PM	<i>Tamra Schmedemann</i>

**Chain of Custody**

1. Is Chain of Custody complete? Yes  No  Not Present   
 2. How was the sample delivered? Client

**Log In**

3. Coolers are present? Yes  No  NA   
 4. Shipping container/cooler in good condition? Yes  No   
 Custody seals intact on shipping container/cooler? Yes  No  Not Present   
 No. Seal Date: Signed By:  
 5. Was an attempt made to cool the samples? Yes  No  NA   
 6. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA   
 7. Sample(s) in proper container(s)? Yes  No   
 8. Sufficient sample volume for indicated test(s)? Yes  No   
 9. Are samples (except VOA and ONG) properly preserved? Yes  No   
 10. Was preservative added to bottles? Yes  No  NA   
 11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes  No  No VOA Vials   
 12. Were any sample containers received broken? Yes  No   
 13. Does paperwork match bottle labels? Yes  No   
 (Note discrepancies on chain of custody)  
 14. Are matrices correctly identified on Chain of Custody? Yes  No   
 15. Is it clear what analyses were requested? Yes  No   
 16. Were all holding times able to be met? Yes  No   
 (If no, notify customer for authorization.)

**Special Handling (if applicable)**

17. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

18. Additional remarks:

**Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.7	Good				sns



**R & D Environmental Solutions**  
 1439 NE 6<sup>th</sup> Street, Suite 2 • Grants Pass, OR 97526  
 (541) 471-7008 • Fax (541) 474-4691

**CHAIN OF CUSTODY RECORD**  
 ID: 21120175

Client: Sukhwinder S. Rai		Project Name: UST Decommission			# of Containers	Sample Matrix	Analysis Requested										Notes
Source Description: USTs		Location: 2476 Williams Hwy, Grants Pass					NW TPH-Dx	NW TPH-Gx	EPA 8260B	BTEX+N	PAHs	Total Lead	PCBs	Total Metals			
Client Sample ID	Lab Sample ID	Collection Date	Collection Time	Sampling Point													
SR-120221-P1@4'		12/2/2021	1035	P1@4'	1	Soil	X	X	(1)		(2)					1	
SR-120221-P1@8'		12/2/2021	1049	P1@8'	1	Soil	X	X								2	
SR-120221-P2@5.2'		12/2/2021	1115	P2@5.2'	1	Soil	X	X	(1)		(2)					3	
SR-120221-P2@7'		12/2/2021	1119	P2@7'	1	Soil	X	X	(1)		(2)					4	
SR-120221-P2@10'		12/2/2021	1136	P2@10'	1	Soil	X	X								5	
SR-120221-P3@7'		12/2/2021	1203	P3@7'	1	Soil	X	X	(1)		(2)					6	
SR-120221-P3@10'		12/2/2021	1227	P3@10'	1	Soil	X	X								7	
SR-120221-P4@4'		12/2/2021	1254	P4@4'	1	Soil	X	X	(1)		(2)					8	
SR-120221-P4@7'		12/2/2021	1258	P4@7'	1	Soil	X	X	(1)		(2)					9	
SR-120221-P4@10'		12/2/2021	1314	P4@10'	1	Soil	X	X								10	
SR-120221-P5@4'		12/2/2021	1335	P5@4'	1	Soil	X	X	(1)		(2)					11	
SR-120221-P5@7'		12/2/2021	1340	P5@7'	1	Soil	X	X								12	
Relinquished By		Received By		Date	Time	Special Instructions			Sampler: Rick Gates								
Denny		JMS		12/3/21	11:11 207°C IRE	Notes: (1) analyze sample with highest TPH-Gx value (2) Analyze if TPH-Dx is greater than 2,500											
						Total Metals: Sb As Ba Be Ca Cd Co Cu Cr Fe Pb Mg Mn Ni K Se Ag Na Tl V Zn Hard											
						TCLP Metals: Sb As Ba Be Ca Cd Co Cu Cr Fe Pb Mg Mn Ni K Se Ag Na Tl V Zn Hard											
Results To	R & D Environmental Solutions, 1439 NE 6 <sup>th</sup> Street, Suite 2, Grants Pass OR 97526										Phone (541) 471 - 7008						
Invoice To	Same as above										Phone ( ) -						
Delivery Request: <input checked="" type="checkbox"/> Standard (10 Day) <input type="checkbox"/> Rush 5 Day* <input type="checkbox"/> Rush 2 Day* <input type="checkbox"/> Rush 1 Day* <input type="checkbox"/> Phone Results <input type="checkbox"/> Fax Results (* Additional Surcharge)						QC Report Request: None <u>MB CVS Dup MS MSD CCB CCV</u> CLP											



- 
- B Analyte detected in the associated method blank.
- BA BOD Alternative Calculation: The initial results performed by Standard Methods did not fall within parameters of the Standard Methods calculation. An alternate approved calculation was performed using the HACH method and the value reported is an estimated concentration.
- C Sample(s) does not meet NELAP/ORELAP sample acceptance criteria. See Case Narrative.
- C1 Sample(s) does not meet NELAP/ORELAP sample acceptance criteria for temperature.
- CF Results confirmed by re-analysis.
- CU Cleanup performed as specified by method.
- D1 The diesel elution pattern for the sample is not typical.
- D2 The sample appears to be a heavier hydrocarbon range than diesel.
- D3 The sample appears to be a lighter hydrocarbon range than diesel.
- D4 Detected hydrocarbons do not have pattern and range consistent with typical petroleum products and may be due to biogenic interference.
- D5 Detected hydrocarbons in the diesel range appear to be weathered diesel.
- E Estimated value.
- ER Elevated reporting limit due to matrix. Report limits (MDLs, MRLs & PQLs) are adjusted based on variations in sample preparation amounts, analytical dilutions, and percent solids, where applicable.
- FC Fecal Coliforms: Sample(s) received past 40 CFR Part 136 specified holding time. Results reported as estimated values.
- G1 The gasoline elution pattern for the sample is not typical.
- G2 The sample appears to be a heavier hydrocarbon range than gasoline.
- G3 The sample appears to be a lighter hydrocarbon range than gasoline.
- G4 Detected hydrocarbons in the gasoline range appear to be weathered gasoline.
- HP Sample re-analysis performed outside of method specified holding time.
- HR Sample received outside of method specified holding time.
- HS Sample analyzed for volatile organics contained headspace.
- HT At the client's request, the sample was analyzed outside of method specified holding time.
- H Analysis performed outside of method specified holding time.
- J Analyte detected below the Minimum Reporting Limit (MRL) and above the Method Detection Limit (MDL). The J flag result is an estimated value and the user should be aware that this data is of limited reliability.
- L Dissolved metals were not filtered within 15 minutes of collection per 40 CFR Part 136.
- MI Surrogate, Duplicate Sample (DUP) or Matrix Spikes recoveries are out of control limits due to matrix interference. Sample results may be biased.
- N See Case Narrative on page 2 of report.
- NLR No Legionella Recovered.
- PLR Presence of Legionella Recovered.
- Q Initial calibration verification (ICV), continuing calibration verification (CCV) or laboratory control sample (LCS) exceeded high recovery limits, but associated samples are non-detect and the sample results are not affected. Data meets EPA/NELAP requirements.
- R Relative percent difference (RPD) is outside of the accepted recovery limits.
- R1 Relative percent difference (RPD) is outside of the accepted recovery limits. However, analyses are not controlled on RPD values for sample concentrations that are less than the reporting limit.
- R3 The relative percent difference (RPD) and/or percent recovery for the duplicate (DUP) or matrix spike (MS)/matrix spike duplicate (MSD) cannot be accurately calculated due to the concentration of analyte already present in the sample.
- R4 Duplicate analysis failed due to result being at or near the method reporting limit.
- S Surrogate and/or matrix spike recovery is outside of the accepted recovery limits. Sample results may be biased.
- S1 Surrogate or matrix spike recovery is outside of control limits due to dilution necessary for analysis.
- SC Sub-contracted to another laboratory for analysis.
- SP Sample(s) were not collected per EPA Method 5035A protocols. The results are considered minimum values.
- # Value exceeds regulatory level for TCLP contaminant.
- X1 The motor oil elution pattern for the sample is not typical.
- X2 The sample appears to be a heavier hydrocarbon range than motor oil.
- X3 The sample appears to be a lighter hydrocarbon range than motor oil.
- \* Value exceeds Maximum Contaminant Level or is outside the acceptable range.