



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Thursday, August 25, 2022

Brian Bartlett
Stimson Lumber Co.
PO Box 68
Forest Grove, OR 97204

RE: A2H0036 - CAO - [none]

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A2H0036, which was received by the laboratory on 8/2/2022 at 9:40:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: DAuvil@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler#1	19.1 degC	Cooler#2	21.3 degC
----------	-----------	----------	-----------

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Stimson Lumber Co.
PO Box 68
Forest Grove, OR 97204

Project: CAO
Project Number: [none]
Project Manager: Brian Bartlett

Report ID:
A2H0036 - 08 25 22 0934

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Press Pit	A2H0036-01	Water	08/01/22 10:21	08/02/22 09:40
Whitewater Chest	A2H0036-02	Water	08/01/22 10:04	08/02/22 09:40
Machine Chest	A2H0036-03	Water	08/01/22 11:11	08/02/22 09:40
Hydrosieves	A2H0036-04	Water	08/01/22 10:49	08/02/22 09:40
Header Box	A2H0036-05	Water	08/01/22 09:51	08/02/22 09:40

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Stimson Lumber Co.
PO Box 68
Forest Grove, OR 97204

Project: CAO
Project Number: [none]
Project Manager: **Brian Bartlett**

Report ID:
A2H0036 - 08 25 22 0934

ANALYTICAL CASE NARRATIVE

Work Order: A2H0036

Temperature Exceedance-

Samples were received at 19.1, 21.3 °C, which exceeds the regulatory requirements for proper storage at less than or equal to 6 °C.

Affected samples or specific analyses have been qualified with "TEMP" in this report.

Jennifer Sutton
Sample Control
8/2/22

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062Stimson Lumber Co.
PO Box 68
Forest Grove, OR 97204Project: CAO
Project Number: [none]
Project Manager: Brian BartlettReport ID:
A2H0036 - 08 25 22 0934

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Press Pit (A2H0036-01)		Matrix: Water		Batch: 22H0139		TEMP		
Acetone	104	100	200	ug/L	10	08/03/22 21:41	EPA 8260D	J
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	104 %	Limits:	80-120 %	1	08/03/22 21:41	EPA 8260D
Toluene-d8 (Surr)			99 %		80-120 %	1	08/03/22 21:41	EPA 8260D
4-Bromofluorobenzene (Surr)			100 %		80-120 %	1	08/03/22 21:41	EPA 8260D
Whitewater Chest (A2H0036-02)		Matrix: Water		Batch: 22H0139		TEMP		
Acetone	127	100	200	ug/L	10	08/03/22 22:03	EPA 8260D	J
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	104 %	Limits:	80-120 %	1	08/03/22 22:03	EPA 8260D
Toluene-d8 (Surr)			99 %		80-120 %	1	08/03/22 22:03	EPA 8260D
4-Bromofluorobenzene (Surr)			101 %		80-120 %	1	08/03/22 22:03	EPA 8260D
Machine Chest (A2H0036-03)		Matrix: Water		Batch: 22H0139		TEMP		
Acetone	321	100	200	ug/L	10	08/03/22 22:25	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	105 %	Limits:	80-120 %	1	08/03/22 22:25	EPA 8260D
Toluene-d8 (Surr)			99 %		80-120 %	1	08/03/22 22:25	EPA 8260D
4-Bromofluorobenzene (Surr)			100 %		80-120 %	1	08/03/22 22:25	EPA 8260D
Hydrosieves (A2H0036-04)		Matrix: Water		Batch: 22H0139		TEMP		
Acetone	125	100	200	ug/L	10	08/03/22 23:10	EPA 8260D	J
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	104 %	Limits:	80-120 %	1	08/03/22 23:10	EPA 8260D
Toluene-d8 (Surr)			100 %		80-120 %	1	08/03/22 23:10	EPA 8260D
4-Bromofluorobenzene (Surr)			101 %		80-120 %	1	08/03/22 23:10	EPA 8260D
Header Box (A2H0036-05)		Matrix: Water		Batch: 22H0139		TEMP		
Acetone	195	100	200	ug/L	10	08/03/22 22:48	EPA 8260D	J
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	104 %	Limits:	80-120 %	1	08/03/22 22:48	EPA 8260D
Toluene-d8 (Surr)			99 %		80-120 %	1	08/03/22 22:48	EPA 8260D
4-Bromofluorobenzene (Surr)			100 %		80-120 %	1	08/03/22 22:48	EPA 8260D

Apex Laboratories

Darrell Auvil, Client Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062Stimson Lumber Co.
PO Box 68
Forest Grove, OR 97204Project: CAO
Project Number: [none]
Project Manager: Brian Bartlett**Report ID:**
A2H0036 - 08 25 22 0934

Weck Laboratories, Inc.

ANALYTICAL SAMPLE RESULTS (Subcontracted)

Aldehydes by EPA Method 8315A

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Press Pit (A2H0036-01)				Matrix: Water		Batch: W2H0339		
Batch: W2H0339								
Formaldehyde	18000	---	3000	ug/l	1	08/04/22 14:42	EPA 8315A	M-02
Whitewater Chest (A2H0036-02)				Matrix: Water		Batch: W2H0339		
Batch: W2H0339								
Formaldehyde	16000	---	3000	ug/l	1	08/04/22 14:58	EPA 8315A	M-02
Machine Chest (A2H0036-03RE1)				Matrix: Water		Batch: W2H0339		
Batch: W2H0339								
Formaldehyde	55000	---	15000	ug/l	5	08/04/22 18:34	EPA 8315A	M-02, M-06
Hydrosieves (A2H0036-04)				Matrix: Water		Batch: W2H0339		
Batch: W2H0339								
Formaldehyde	19000	---	3000	ug/l	1	08/04/22 15:31	EPA 8315A	M-02
Header Box (A2H0036-05RE1)				Matrix: Water		Batch: W2H0339		
Batch: W2H0339								
Formaldehyde	67000	---	15000	ug/l	5	08/04/22 18:52	EPA 8315A	M-02, M-06

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager

**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Stimson Lumber Co.**
PO Box 68
Forest Grove, OR 97204Project: **CAO**
Project Number: [none]
Project Manager: **Brian Bartlett****Report ID:**
A2H0036 - 08 25 22 0934**QUALITY CONTROL (QC) SAMPLE RESULTS****Volatile Organic Compounds by EPA 8260D**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22H0139 - EPA 5030C						Water						
Blank (22H0139-BLK1)			Prepared: 08/03/22 12:28		Analyzed: 08/03/22 17:37							
EPA 8260D												
Acetone	ND	10.0	20.0	ug/L	1	---	---	---	---	---	---	
Acrylonitrile	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Benzene	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Bromobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Bromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromoform	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromomethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Carbon disulfide	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Chlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Chloroethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
Chloroform	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Chloromethane	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Dibromomethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062Stimson Lumber Co.
PO Box 68
Forest Grove, OR 97204Project: CAO
Project Number: [none]
Project Manager: Brian BartlettReport ID:
A2H0036 - 08 25 22 0934

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22H0139 - EPA 5030C						Water						
Blank (22H0139-BLK1)						Prepared: 08/03/22 12:28 Analyzed: 08/03/22 17:37						
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
2-Hexanone	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Methylene chloride	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Styrene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Toluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Vinyl chloride	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
o-Xylene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr) Recovery: 105 % Limits: 80-120 % Dilution: 1x												

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323

ORELAP ID: OR100062

Stimson Lumber Co.
PO Box 68
Forest Grove, OR 97204Project: **CAO**
Project Number: [none]
Project Manager: **Brian Bartlett****Report ID:**
A2H0036 - 08 25 22 0934

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22H0139 - EPA 5030C						Water						
Blank (22H0139-BLK1)				Prepared: 08/03/22 12:28		Analyzed: 08/03/22 17:37						
Surr: Toluene-d8 (Surr)		Recovery: 99 %		Limits: 80-120 %		Dilution: 1x						
4-Bromofluorobenzene (Surr)		101 %		80-120 %		"						
LCS (22H0139-BS1)				Prepared: 08/03/22 12:28		Analyzed: 08/03/22 16:42						
EPA 8260D												
Acetone	38.6	10.0	20.0	ug/L	1	40.0	---	97	80-120%	---	---	Q-56
Acrylonitrile	20.4	1.00	2.00	ug/L	1	20.0	---	102	80-120%	---	---	
Benzene	19.9	0.100	0.200	ug/L	1	20.0	---	100	80-120%	---	---	
Bromobenzene	19.3	0.250	0.500	ug/L	1	20.0	---	96	80-120%	---	---	
Bromochloromethane	21.9	0.500	1.00	ug/L	1	20.0	---	109	80-120%	---	---	
Bromodichloromethane	21.6	0.500	1.00	ug/L	1	20.0	---	108	80-120%	---	---	
Bromoform	22.6	0.500	1.00	ug/L	1	20.0	---	113	80-120%	---	---	
Bromomethane	21.6	5.00	5.00	ug/L	1	20.0	---	108	80-120%	---	---	
2-Butanone (MEK)	41.9	5.00	10.0	ug/L	1	40.0	---	105	80-120%	---	---	
n-Butylbenzene	19.6	0.500	1.00	ug/L	1	20.0	---	98	80-120%	---	---	
sec-Butylbenzene	20.6	0.500	1.00	ug/L	1	20.0	---	103	80-120%	---	---	
tert-Butylbenzene	19.1	0.500	1.00	ug/L	1	20.0	---	96	80-120%	---	---	
Carbon disulfide	21.4	5.00	10.0	ug/L	1	20.0	---	107	80-120%	---	---	
Carbon tetrachloride	22.8	0.500	1.00	ug/L	1	20.0	---	114	80-120%	---	---	
Chlorobenzene	20.1	0.250	0.500	ug/L	1	20.0	---	101	80-120%	---	---	
Chloroethane	28.2	5.00	5.00	ug/L	1	20.0	---	141	80-120%	---	---	
Chloroform	21.2	0.500	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
Chloromethane	21.1	2.50	5.00	ug/L	1	20.0	---	106	80-120%	---	---	
2-Chlorotoluene	19.0	0.500	1.00	ug/L	1	20.0	---	95	80-120%	---	---	
4-Chlorotoluene	18.3	0.500	1.00	ug/L	1	20.0	---	92	80-120%	---	---	
Dibromochloromethane	21.1	0.500	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
1,2-Dibromo-3-chloropropane	19.7	2.50	5.00	ug/L	1	20.0	---	99	80-120%	---	---	
1,2-Dibromoethane (EDB)	20.2	0.250	0.500	ug/L	1	20.0	---	101	80-120%	---	---	
Dibromomethane	21.5	0.500	1.00	ug/L	1	20.0	---	108	80-120%	---	---	
1,2-Dichlorobenzene	19.6	0.250	0.500	ug/L	1	20.0	---	98	80-120%	---	---	
1,3-Dichlorobenzene	20.0	0.250	0.500	ug/L	1	20.0	---	100	80-120%	---	---	
1,4-Dichlorobenzene	19.5	0.250	0.500	ug/L	1	20.0	---	98	80-120%	---	---	
Dichlorodifluoromethane	20.4	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
1,1-Dichloroethane	21.3	0.200	0.400	ug/L	1	20.0	---	106	80-120%	---	---	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager

**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Stimson Lumber Co.**
PO Box 68
Forest Grove, OR 97204Project: **CAO**
Project Number: [none]
Project Manager: **Brian Bartlett****Report ID:**
A2H0036 - 08 25 22 0934**QUALITY CONTROL (QC) SAMPLE RESULTS****Volatile Organic Compounds by EPA 8260D**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22H0139 - EPA 5030C						Water						
LCS (22H0139-BS1)						Prepared: 08/03/22 12:28 Analyzed: 08/03/22 16:42						
1,2-Dichloroethane (EDC)	21.7	0.200	0.400	ug/L	1	20.0	---	109	80-120%	---	---	
1,1-Dichloroethene	23.0	0.200	0.400	ug/L	1	20.0	---	115	80-120%	---	---	
cis-1,2-Dichloroethene	21.0	0.200	0.400	ug/L	1	20.0	---	105	80-120%	---	---	
trans-1,2-Dichloroethene	21.0	0.200	0.400	ug/L	1	20.0	---	105	80-120%	---	---	
1,2-Dichloropropane	20.9	0.250	0.500	ug/L	1	20.0	---	105	80-120%	---	---	
1,3-Dichloropropane	20.0	0.500	1.00	ug/L	1	20.0	---	100	80-120%	---	---	
2,2-Dichloropropane	20.4	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
1,1-Dichloropropene	20.7	0.500	1.00	ug/L	1	20.0	---	103	80-120%	---	---	
cis-1,3-Dichloropropene	20.0	0.500	1.00	ug/L	1	20.0	---	100	80-120%	---	---	
trans-1,3-Dichloropropene	21.7	0.500	1.00	ug/L	1	20.0	---	108	80-120%	---	---	
Ethylbenzene	19.6	0.250	0.500	ug/L	1	20.0	---	98	80-120%	---	---	
Hexachlorobutadiene	20.6	2.50	5.00	ug/L	1	20.0	---	103	80-120%	---	---	
2-Hexanone	39.0	5.00	10.0	ug/L	1	40.0	---	97	80-120%	---	---	
Isopropylbenzene	19.8	0.500	1.00	ug/L	1	20.0	---	99	80-120%	---	---	
4-Isopropyltoluene	20.1	0.500	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
Methylene chloride	20.9	5.00	10.0	ug/L	1	20.0	---	104	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	42.2	5.00	10.0	ug/L	1	40.0	---	106	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	21.4	0.500	1.00	ug/L	1	20.0	---	107	80-120%	---	---	
Naphthalene	18.9	1.00	2.00	ug/L	1	20.0	---	94	80-120%	---	---	
n-Propylbenzene	19.2	0.250	0.500	ug/L	1	20.0	---	96	80-120%	---	---	
Styrene	20.8	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
1,1,1,2-Tetrachloroethane	20.0	0.200	0.400	ug/L	1	20.0	---	100	80-120%	---	---	
1,1,2,2-Tetrachloroethane	20.3	0.250	0.500	ug/L	1	20.0	---	102	80-120%	---	---	
Tetrachloroethene (PCE)	20.3	0.200	0.400	ug/L	1	20.0	---	102	80-120%	---	---	
Toluene	19.2	0.500	1.00	ug/L	1	20.0	---	96	80-120%	---	---	
1,2,3-Trichlorobenzene	20.2	1.00	2.00	ug/L	1	20.0	---	101	80-120%	---	---	
1,2,4-Trichlorobenzene	19.8	1.00	2.00	ug/L	1	20.0	---	99	80-120%	---	---	
1,1,1-Trichloroethane	21.5	0.200	0.400	ug/L	1	20.0	---	107	80-120%	---	---	
1,1,2-Trichloroethane	19.8	0.250	0.500	ug/L	1	20.0	---	99	80-120%	---	---	
Trichloroethene (TCE)	20.3	0.200	0.400	ug/L	1	20.0	---	101	80-120%	---	---	
Trichlorofluoromethane	23.1	1.00	2.00	ug/L	1	20.0	---	116	80-120%	---	---	
1,2,3-Trichloropropane	19.1	0.500	1.00	ug/L	1	20.0	---	95	80-120%	---	---	
1,2,4-Trimethylbenzene	20.4	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
1,3,5-Trimethylbenzene	19.9	0.500	1.00	ug/L	1	20.0	---	100	80-120%	---	---	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323

ORELAP ID: OR100062

Stimson Lumber Co.
PO Box 68
Forest Grove, OR 97204Project: **CAO**
Project Number: [none]
Project Manager: **Brian Bartlett****Report ID:**
A2H0036 - 08 25 22 0934

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22H0139 - EPA 5030C						Water						
LCS (22H0139-BS1)			Prepared: 08/03/22 12:28		Analyzed: 08/03/22 16:42							
Vinyl chloride	21.9	0.200	0.400	ug/L	1	20.0	---	109	80-120%	---	---	
m,p-Xylene	40.3	0.500	1.00	ug/L	1	40.0	---	101	80-120%	---	---	
o-Xylene	18.8	0.250	0.500	ug/L	1	20.0	---	94	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 104 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		99 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		98 %		80-120 %		"						

Duplicate (22H0139-DUP1)

Prepared: 08/03/22 12:28 Analyzed: 08/03/22 18:22

QC Source Sample: Non-SDG (A2H0069-01)

Acetone	ND	10.0	20.0	ug/L	1	---	ND	---	---	---	30%
Acrylonitrile	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%
Benzene	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	30%
Bromobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%
Bromochloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Bromodichloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Bromoform	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Bromomethane	ND	5.00	5.00	ug/L	1	---	ND	---	---	---	30%
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%
n-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Carbon disulfide	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Chlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%
Chloroethane	ND	5.00	5.00	ug/L	1	---	ND	---	---	---	30%
Chloroform	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Chloromethane	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Dibromochloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%
Dibromomethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Stimson Lumber Co.

PO Box 68

Forest Grove, OR 97204

Project: CAO

Project Number: [none]

Project Manager: Brian Bartlett

Report ID:

A2H0036 - 08 25 22 0934

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22H0139 - EPA 5030C						Water						
Duplicate (22H0139-DUP1)			Prepared: 08/03/22 12:28		Analyzed: 08/03/22 18:22							
QC Source Sample: Non-SDG (A2H0069-01)												
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%	
2-Hexanone	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Methylene chloride	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Naphthalene	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Styrene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
Toluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062Stimson Lumber Co.
PO Box 68
Forest Grove, OR 97204Project: CAO
Project Number: [none]
Project Manager: Brian BartlettReport ID:
A2H0036 - 08 25 22 0934

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22H0139 - EPA 5030C						Water						
Duplicate (22H0139-DUP1)			Prepared: 08/03/22 12:28 Analyzed: 08/03/22 18:22									
QC Source Sample: Non-SDG (A2H0069-01)												
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Vinyl chloride	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
o-Xylene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 105 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		99 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		100 %		80-120 %		"						
Matrix Spike (22H0139-MS1)						Prepared: 08/03/22 12:28 Analyzed: 08/03/22 23:32						TEMP
QC Source Sample: Hydrosieves (A2H0036-04)												
EPA 8260D												
Acetone	503	100	200	ug/L	10	400	125	94	39-160%	---	---	
Acrylonitrile	206	10.0	20.0	ug/L	10	200	ND	103	63-135%	---	---	
Benzene	209	1.00	2.00	ug/L	10	200	ND	105	79-120%	---	---	
Bromobenzene	189	2.50	5.00	ug/L	10	200	ND	95	80-120%	---	---	
Bromochloromethane	227	5.00	10.0	ug/L	10	200	ND	114	78-123%	---	---	
Bromodichloromethane	218	5.00	10.0	ug/L	10	200	ND	109	79-125%	---	---	
Bromoform	214	5.00	10.0	ug/L	10	200	ND	107	66-130%	---	---	
Bromomethane	228	50.0	50.0	ug/L	10	200	ND	114	53-141%	---	---	
2-Butanone (MEK)	426	50.0	100	ug/L	10	400	ND	106	56-143%	---	---	
n-Butylbenzene	211	5.00	10.0	ug/L	10	200	ND	105	75-128%	---	---	
sec-Butylbenzene	216	5.00	10.0	ug/L	10	200	ND	108	77-126%	---	---	
tert-Butylbenzene	198	5.00	10.0	ug/L	10	200	ND	99	78-124%	---	---	
Carbon disulfide	233	50.0	100	ug/L	10	200	ND	117	64-133%	---	---	
Carbon tetrachloride	248	5.00	10.0	ug/L	10	200	ND	124	72-136%	---	---	
Chlorobenzene	202	2.50	5.00	ug/L	10	200	ND	101	80-120%	---	---	
Chloroethane	293	50.0	50.0	ug/L	10	200	ND	147	60-138%	---	---	Q-54
Chloroform	220	5.00	10.0	ug/L	10	200	ND	110	79-124%	---	---	
Chloromethane	245	25.0	50.0	ug/L	10	200	ND	123	50-139%	---	---	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Stimson Lumber Co.

PO Box 68

Forest Grove, OR 97204

Project: **CAO**

Project Number: [none]

Project Manager: **Brian Bartlett****Report ID:****A2H0036 - 08 25 22 0934**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22H0139 - EPA 5030C						Water						
Matrix Spike (22H0139-MS1)			Prepared: 08/03/22 12:28		Analyzed: 08/03/22 23:32		TEMP					
QC Source Sample: Hydrosieves (A2H0036-04)												
2-Chlorotoluene	195	5.00	10.0	ug/L	10	200	ND	98	79-122%	---	---	
4-Chlorotoluene	185	5.00	10.0	ug/L	10	200	ND	92	78-122%	---	---	
Dibromochloromethane	202	5.00	10.0	ug/L	10	200	ND	101	74-126%	---	---	
1,2-Dibromo-3-chloropropane	191	25.0	50.0	ug/L	10	200	ND	95	62-128%	---	---	
1,2-Dibromoethane (EDB)	196	2.50	5.00	ug/L	10	200	ND	98	77-121%	---	---	
Dibromomethane	214	5.00	10.0	ug/L	10	200	ND	107	79-123%	---	---	
1,2-Dichlorobenzene	194	2.50	5.00	ug/L	10	200	ND	97	80-120%	---	---	
1,3-Dichlorobenzene	200	2.50	5.00	ug/L	10	200	ND	100	80-120%	---	---	
1,4-Dichlorobenzene	195	2.50	5.00	ug/L	10	200	ND	98	79-120%	---	---	
Dichlorodifluoromethane	255	5.00	10.0	ug/L	10	200	ND	128	32-152%	---	---	
1,1-Dichloroethane	222	2.00	4.00	ug/L	10	200	ND	111	77-125%	---	---	
1,2-Dichloroethane (EDC)	218	2.00	4.00	ug/L	10	200	ND	109	73-128%	---	---	
1,1-Dichloroethene	254	2.00	4.00	ug/L	10	200	ND	127	71-131%	---	---	
cis-1,2-Dichloroethene	213	2.00	4.00	ug/L	10	200	ND	107	78-123%	---	---	
trans-1,2-Dichloroethene	227	2.00	4.00	ug/L	10	200	ND	114	75-124%	---	---	
1,2-Dichloropropane	211	2.50	5.00	ug/L	10	200	ND	105	78-122%	---	---	
1,3-Dichloropropane	196	5.00	10.0	ug/L	10	200	ND	98	80-120%	---	---	
2,2-Dichloropropane	219	5.00	10.0	ug/L	10	200	ND	110	60-139%	---	---	
1,1-Dichloropropene	226	5.00	10.0	ug/L	10	200	ND	113	79-125%	---	---	
cis-1,3-Dichloropropene	184	5.00	10.0	ug/L	10	200	ND	92	75-124%	---	---	
trans-1,3-Dichloropropene	211	5.00	10.0	ug/L	10	200	ND	105	73-127%	---	---	
Ethylbenzene	200	2.50	5.00	ug/L	10	200	ND	100	79-121%	---	---	
Hexachlorobutadiene	219	25.0	50.0	ug/L	10	200	ND	109	66-134%	---	---	
2-Hexanone	384	50.0	100	ug/L	10	400	ND	96	57-139%	---	---	
Isopropylbenzene	208	5.00	10.0	ug/L	10	200	ND	104	72-131%	---	---	
4-Isopropyltoluene	212	5.00	10.0	ug/L	10	200	ND	106	77-127%	---	---	
Methylene chloride	210	50.0	100	ug/L	10	200	ND	105	74-124%	---	---	
4-Methyl-2-pentanone (MiBK)	410	50.0	100	ug/L	10	400	ND	102	67-130%	---	---	
Methyl tert-butyl ether (MTBE)	212	5.00	10.0	ug/L	10	200	ND	106	71-124%	---	---	
Naphthalene	189	10.0	20.0	ug/L	10	200	ND	94	61-128%	---	---	
n-Propylbenzene	203	2.50	5.00	ug/L	10	200	ND	102	76-126%	---	---	
Styrene	209	5.00	10.0	ug/L	10	200	ND	105	78-123%	---	---	
1,1,1,2-Tetrachloroethane	196	2.00	4.00	ug/L	10	200	ND	98	78-124%	---	---	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager

Page 13 of 23



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Stimson Lumber Co.

PO Box 68

Forest Grove, OR 97204

Project: CAO

Project Number: [none]

Project Manager: Brian Bartlett

Report ID:

A2H0036 - 08 25 22 0934

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22H0139 - EPA 5030C						Water						
Matrix Spike (22H0139-MS1)			Prepared: 08/03/22 12:28				Analyzed: 08/03/22 23:32				TEMP	
QC Source Sample: Hydrosieves (A2H0036-04)												
1,1,2,2-Tetrachloroethane	195	2.50	5.00	ug/L	10	200	ND	97	71-121%	---	---	
Tetrachloroethene (PCE)	213	2.00	4.00	ug/L	10	200	ND	107	74-129%	---	---	
Toluene	194	5.00	10.0	ug/L	10	200	ND	97	80-121%	---	---	
1,2,3-Trichlorobenzene	204	10.0	20.0	ug/L	10	200	ND	102	69-129%	---	---	
1,2,4-Trichlorobenzene	203	10.0	20.0	ug/L	10	200	ND	102	69-130%	---	---	
1,1,1-Trichloroethane	228	2.00	4.00	ug/L	10	200	ND	114	74-131%	---	---	
1,1,2-Trichloroethane	192	2.50	5.00	ug/L	10	200	ND	96	80-120%	---	---	
Trichloroethene (TCE)	215	2.00	4.00	ug/L	10	200	ND	107	79-123%	---	---	
Trichlorofluoromethane	265	10.0	20.0	ug/L	10	200	ND	132	65-141%	---	---	
1,2,3-Trichloropropane	184	5.00	10.0	ug/L	10	200	ND	92	73-122%	---	---	
1,2,4-Trimethylbenzene	204	5.00	10.0	ug/L	10	200	ND	102	76-124%	---	---	
1,3,5-Trimethylbenzene	204	5.00	10.0	ug/L	10	200	ND	102	75-124%	---	---	
Vinyl chloride	247	2.00	4.00	ug/L	10	200	ND	124	58-137%	---	---	
m,p-Xylene	414	5.00	10.0	ug/L	10	400	ND	103	80-121%	---	---	
o-Xylene	190	2.50	5.00	ug/L	10	200	ND	95	78-122%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 104 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		96 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		97 %		80-120 %		"						

Apex Laboratories

Darrell Auvil, Client Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062Stimson Lumber Co.
PO Box 68
Forest Grove, OR 97204Project: CAO
Project Number: [none]
Project Manager: Brian BartlettReport ID:
A2H0036 - 08 25 22 0934

Weck Laboratories, Inc.

QUALITY CONTROL (QC) SAMPLE RESULTS

Aldehydes by EPA Method 8315A

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch W2H0339 - EPA 8315/Drtz., L-L SF						Water						
Blank (W2H0339-BLK1)			Prepared: 08/03/22 13:50		Analyzed: 08/04/22 12:44							
<u>EPA 8315A</u>												
Formaldehyde	ND	---	30	ug/l	1	---	---	---	---	---	---	
LCS (W2H0339-BS1)			Prepared: 08/03/22 13:50		Analyzed: 08/04/22 13:01							
<u>EPA 8315A</u>												
Formaldehyde	140	---	30	ug/l	1	100	---	140	44-173%	---	---	
Matrix Spike (W2H0339-MS1)			Prepared: 08/03/22 13:50		Analyzed: 08/04/22 13:17							
<u>QC Source Sample: Non-SDG (2H02150-02)</u>												
<u>EPA 8315A</u>												
Formaldehyde	4520	---	600	ug/l	1	2000	2960	78	32-164%	---	---	M-02
Matrix Spike Dup (W2H0339-MSD1)			Prepared: 08/03/22 13:50		Analyzed: 08/04/22 18:16							
<u>QC Source Sample: Non-SDG (2H02150-02)</u>												
Formaldehyde	11600	---	3000	ug/l	5	2000	2960	430	32-164%	88	20%	M-02, M-06, MS-01, R-02

Apex Laboratories

Darrell Auvil, Client Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323

ORELAP ID: OR100062

Stimson Lumber Co.

PO Box 68

Forest Grove, OR 97204

Project: CAO

Project Number: [none]

Project Manager: **Brian Bartlett**

Report ID:

A2H0036 - 08 25 22 0934

SAMPLE PREPARATION INFORMATION

Volatile Organic Compounds by EPA 8260D

Prep: EPA 5030C

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 22H0139</u>							
A2H0036-01	Water	EPA 8260D	08/01/22 10:21	08/03/22 12:28	5mL/5mL	5mL/5mL	1.00
A2H0036-02	Water	EPA 8260D	08/01/22 10:04	08/03/22 12:28	5mL/5mL	5mL/5mL	1.00
A2H0036-03	Water	EPA 8260D	08/01/22 11:11	08/03/22 12:28	5mL/5mL	5mL/5mL	1.00
A2H0036-04	Water	EPA 8260D	08/01/22 10:49	08/03/22 12:28	5mL/5mL	5mL/5mL	1.00
A2H0036-05	Water	EPA 8260D	08/01/22 09:51	08/03/22 12:28	5mL/5mL	5mL/5mL	1.00

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Stimson Lumber Co.
PO Box 68
Forest Grove, OR 97204

Project: **CAO**
Project Number: [none]
Project Manager: **Brian Bartlett**

Report ID:
A2H0036 - 08 25 22 0934

Weck Laboratories, Inc.

SAMPLE PREPARATION INFORMATION

Aldehydes by EPA Method 8315A

Prep: EPA 8315/Drtz., L-L SF

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: W2H0339</u>							
A2H0036-01	Water	EPA 8315A	08/01/22 10:21	08/03/22 13:50	1ml/10ml	100ml/10ml	100.00
A2H0036-02	Water	EPA 8315A	08/01/22 10:04	08/03/22 13:50	1ml/10ml	100ml/10ml	100.00
A2H0036-03RE1	Water	EPA 8315A	08/01/22 11:11	08/03/22 13:50	1ml/10ml	100ml/10ml	100.00
A2H0036-04	Water	EPA 8315A	08/01/22 10:49	08/03/22 13:50	1ml/10ml	100ml/10ml	100.00
A2H0036-05RE1	Water	EPA 8315A	08/01/22 09:51	08/03/22 13:50	1ml/10ml	100ml/10ml	100.00

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Stimson Lumber Co.
PO Box 68
Forest Grove, OR 97204

Project: **CAO**
Project Number: [none]
Project Manager: **Brian Bartlett**

Report ID:
A2H0036 - 08 25 22 0934

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

- J** Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
- Q-54** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +21%. The results are reported as Estimated Values.
- Q-56** Daily CCV/LCS recovery for this analyte was above the +/-20% criteria listed in EPA 8260
- TEMP** Sample was received outside of recommended temperature. See Case Narrative.

Weck Laboratories, Inc.

- M-02** Due to the nature of matrix interferences, sample was diluted prior to preparation. The MDL and MRL were raised due to the dilution.
- M-06** Due to the high concentration of analyte inherent in the sample, sample was diluted prior to preparation and/or analysis. The MDL and MRL were raised due to this dilution.
- MS-01** The spike recovery for this QC sample is outside of established control limits possibly due to sample matrix interference.
- R-02** The RPD was outside of QC acceptance limits due to possible matrix interference.

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Stimson Lumber Co.
PO Box 68
Forest Grove, OR 97204

Project: **CAO**
Project Number: [none]
Project Manager: **Brian Bartlett**

Report ID:
A2H0036 - 08 25 22 0934

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET Analyte DETECTED at or above the detection or reporting limit.
ND Analyte NOT DETECTED at or above the detection or reporting limit.
NR Result Not Reported
RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.

"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.
"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.
" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).
-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Stimson Lumber Co.
PO Box 68
Forest Grove, OR 97204

Project: **CAO**
Project Number: [none]
Project Manager: **Brian Bartlett**

Report ID:
A2H0036 - 08 25 22 0934

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Stimson Lumber Co.
PO Box 68
Forest Grove, OR 97204

Project: **CAO**
Project Number: [none]
Project Manager: **Brian Bartlett**

Report ID:
A2H0036 - 08 25 22 0934

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) -

EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
<u>All reported analytes are included in Apex Laboratories' current ORELAP scope.</u>					

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.
Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Stimson Lumber Co.

PO Box 68

Forest Grove, OR 97204

Project: CAO

Project Number: [none]

Project Manager: Brian Bartlett

Report ID:

A2H0036 - 08 25 22 0934

APEX LABS COOLER RECEIPT FORM

Client: Stimson Lumber Element WO#: A2 H0036Project/Project #: CAO 2022004884

Delivery Info:

Date/time received: 8/2/22 @ 940 By: JSDelivered by: Apex ☐ Client ☐ ESS ☐ FedEx ☐ UPS ☒ Swift ☐ Senvoy ☐ SDS ☐ Other ☐Cooler Inspection Date/time inspected: 8/2/22 @ 943 By: JSChain of Custody included? Yes ☒ No ☐ Custody seals? Yes ☐ No ☒Signed/dated by client? Yes ☒ No ☐Signed/dated by Apex? Yes ☒ No ☐

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>19.1</u>	<u>21.3</u>					
Received on ice? (Y/N)	<u>Y</u>	<u>Y</u>					
Temp. blanks? (Y/N)	<u>N</u>	<u>N</u>					
Ice type: (Gel/Real/Other)	<u>gel</u>	<u>gel</u>					
Condition:	<u>out</u>	<u>out</u>					
Cooler out of temp? (Y/N) Possible reason why:	<u>Both coolers melted ^{gel} ice.</u>						
Green dots applied to out of temperature samples? (Yes/No)	<u>Yes</u>						
Out of temperature samples form initiated? (Yes/No)	<u>Yes</u>						

Sample Inspection: Date/time inspected: 8/2/22 @ 1110 By: JSAll samples intact? Yes ☒ No ☐ Comments: _____Bottle labels/COCs agree? Yes ☒ No ☐ Comments: No labels on 2 1/2 Ambersfor all samples.COC/container discrepancies form initiated? Yes ☐ No ☒Containers/volumes received appropriate for analysis? Yes ☒ No ☐ Comments: _____Do VOA vials have visible headspace? Yes ☒ No ☐ NA ☐Comments: 3/3 VOAS for all samples, sediment in allWater samples: pH checked: Yes ☐ No ☒ NA ☒ pH appropriate? Yes ☐ No ☒ NA ☒ VOAS for allsamples.

Comments: _____

Additional information: 12 983 055 03 6880 1966" 6827 10972Labeled by: JS Witness: DSS Cooler Inspected by: JS

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager

Page 23 of 23



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Thursday, August 11, 2022

Brian Bartlett
Stimson Lumber Co.
PO Box 68
Forest Grove, OR 97204

RE: A2H0269 - CAO - [none]

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A2H0269, which was received by the laboratory on 8/9/2022 at 10:05:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: DAuvil@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler#1 4.8 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Stimson Lumber Co.
PO Box 68
Forest Grove, OR 97204

Project: CAO
Project Number: [none]
Project Manager: Brian Bartlett

Report ID:
A2H0269 - 08 11 22 1559

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Whitewater	A2H0269-01	Water	08/08/22 10:02	08/09/22 10:05
Headbox	A2H0269-02	Water	08/08/22 10:07	08/09/22 10:05
Machine Chest	A2H0269-03	Water	08/08/22 10:21	08/09/22 10:05
Press Pit	A2H0269-04	Water	08/08/22 10:29	08/09/22 10:05
Hydrosieves	A2H0269-05	Water	08/08/22 10:38	08/09/22 10:05

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323

ORELAP ID: OR100062

Stimson Lumber Co.
PO Box 68
Forest Grove, OR 97204Project: CAO
Project Number: [none]
Project Manager: Brian Bartlett**Report ID:**
A2H0269 - 08 11 22 1559

ANALYTICAL SAMPLE RESULTS

Solid and Moisture Determinations

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Whitewater (A2H0269-01)		Matrix: Water						
Batch: 22H0351								
Total Suspended Solids	7620	---	500	mg/L	1	08/09/22 17:42	SM 2540 D	
Headbox (A2H0269-02)		Matrix: Water						
Batch: 22H0351								
Total Suspended Solids	15300	---	500	mg/L	1	08/09/22 17:42	SM 2540 D	
Machine Chest (A2H0269-03)		Matrix: Water						
Batch: 22H0351								
Total Suspended Solids	23800	---	500	mg/L	1	08/09/22 17:42	SM 2540 D	
Press Pit (A2H0269-04)		Matrix: Water						
Batch: 22H0351								
Total Suspended Solids	393	---	83.3	mg/L	1	08/09/22 17:42	SM 2540 D	
Hydrosieves (A2H0269-05)		Matrix: Water						
Batch: 22H0351								
Total Suspended Solids	305	---	125	mg/L	1	08/09/22 17:42	SM 2540 D	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323

ORELAP ID: OR100062

Stimson Lumber Co.
PO Box 68
Forest Grove, OR 97204Project: **CAO**
Project Number: [none]
Project Manager: **Brian Bartlett****Report ID:**
A2H0269 - 08 11 22 1559

QUALITY CONTROL (QC) SAMPLE RESULTS

Solid and Moisture Determinations

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22H0351 - Total Suspended Solids						Water						
Blank (22H0351-BLK1)			Prepared: 08/09/22 17:42 Analyzed: 08/09/22 17:42									
SM 2540 D												
Total Suspended Solids	ND	---	5.00	mg/L	1	---	---	---	---	---	---	
Duplicate (22H0351-DUP1)			Prepared: 08/09/22 17:42 Analyzed: 08/09/22 17:42									
QC Source Sample: Non-SDG (A2H0260-01)												
Total Suspended Solids	240	---	125	mg/L	1	---	290	---	---	18.9	10%	Q-04
Duplicate (22H0351-DUP2)			Prepared: 08/09/22 17:42 Analyzed: 08/09/22 17:42									
QC Source Sample: Non-SDG (A2H0268-01)												
Total Suspended Solids	18.5	---	12.5	mg/L	1	---	18.0	---	---	2.74	10%	
Reference (22H0351-SRM1)			Prepared: 08/09/22 17:42 Analyzed: 08/09/22 17:42									
SM 2540 D												
Total Suspended Solids	1030	---		mg/L	1	945		109	85-115%	---	---	

Apex Laboratories

Darrell Auvil, Client Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Stimson Lumber Co.
PO Box 68
Forest Grove, OR 97204

Project: **CAO**
Project Number: [none]
Project Manager: **Brian Bartlett**

Report ID:
A2H0269 - 08 11 22 1559

SAMPLE PREPARATION INFORMATION

Solid and Moisture Determinations

Prep: Total Suspended Solids

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 22H0351</u>							
A2H0269-01	Water	SM 2540 D	08/08/22 10:02	08/09/22 17:42			NA
A2H0269-02	Water	SM 2540 D	08/08/22 10:07	08/09/22 17:42			NA
A2H0269-03	Water	SM 2540 D	08/08/22 10:21	08/09/22 17:42			NA
A2H0269-04	Water	SM 2540 D	08/08/22 10:29	08/09/22 17:42			NA
A2H0269-05	Water	SM 2540 D	08/08/22 10:38	08/09/22 17:42			NA

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Stimson Lumber Co.

PO Box 68

Forest Grove, OR 97204

Project: CAO

Project Number: [none]

Project Manager: **Brian Bartlett**

Report ID:

A2H0269 - 08 11 22 1559

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

Q-04 Spike recovery and/or RPD is outside control limits due to a non-homogeneous sample matrix.

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Stimson Lumber Co.
PO Box 68
Forest Grove, OR 97204

Project: **CAO**
Project Number: [none]
Project Manager: **Brian Bartlett**

Report ID:
A2H0269 - 08 11 22 1559

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET Analyte DETECTED at or above the detection or reporting limit.
ND Analyte NOT DETECTED at or above the detection or reporting limit.
NR Result Not Reported
RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.

"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.
"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.
" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).
-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Stimson Lumber Co.
PO Box 68
Forest Grove, OR 97204

Project: **CAO**
Project Number: [none]
Project Manager: **Brian Bartlett**

Report ID:
A2H0269 - 08 11 22 1559

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Stimson Lumber Co.
PO Box 68
Forest Grove, OR 97204

Project: **CAO**
Project Number: [none]
Project Manager: **Brian Bartlett**

Report ID:
A2H0269 - 08 11 22 1559

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) -

EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
<u>All reported analytes are included in Apex Laboratories' current ORELAP scope.</u>					

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.
Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Stimson Lumber Co.

PO Box 68

Forest Grove, OR 97204

Project: CAO

Project Number: [none]

Project Manager: Brian Bartlett

Report ID:

A2H0269 - 08 11 22 1559

APEX LABS COOLER RECEIPT FORM

Client: Stimson Lumber Element WO#: A2H0269Project/Project #: CAO

Delivery Info:

Date/time received: 8/9/22 @ 1005 By: JSDelivered by: Apex ☐ Client ☐ ESS ☐ FedEx ☐ UPS ☒ Swift ☐ Senvoy ☐ SDS ☐ Other ☐Cooler Inspection Date/time inspected: 8/9/22 @ 1007 By: JSChain of Custody included? Yes ☒ No ☐ Custody seals? Yes ☐ No ☒Signed/dated by client? Yes ☒ No ☐Signed/dated by Apex? Yes ☒ No ☐

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>4.8</u>						
Received on ice? (Y/N)	<u>Y</u>						
Temp. blanks? (Y/N)	<u>X</u>						
Ice type: (Gel/Real/Other)	<u>gel</u>						
Condition:	<u>good</u>						

Cooler out of temp? (Y/N) Possible reason why:

Green dots applied to out of temperature samples? Yes ☐ No ☒Out of temperature samples form initiated? Yes ☐ No ☒Sample Inspection: Date/time inspected: 8/9/22 @ 1415 By: JSAll samples intact? Yes ☒ No ☐ Comments:Bottle labels/COCs agree? Yes ☒ No ☐ Comments:COC/container discrepancies form initiated? Yes ☐ No ☒Containers/volumes received appropriate for analysis? Yes ☒ No ☐ Comments:Do VOA vials have visible headspace? Yes ☐ No ☐ NA ☒

Comments:

Water samples: pH checked: Yes ☐ No ☐ NA ☒ pH appropriate? Yes ☐ No ☐ NA ☒

Comments:

Additional information: 12 983 055 01 6730 5025

Labeled by:

B

Witness:

KM

Cooler Inspected by:

B

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil

Darrell Auvil, Client Services Manager

Page 11 of 11



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Thursday, September 15, 2022

Brian Bartlett
Stimson Lumber Co.
PO Box 68
Forest Grove, OR 97204

RE: A2H0989 - WWTP - [none]

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A2H0989, which was received by the laboratory on 8/31/2022 at 12:35:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: DAuvil@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler #1	20.6 degC
-----------	-----------

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Stimson Lumber Co.

PO Box 68

Forest Grove, OR 97204

Project: WWTP

Project Number: [none]

Project Manager: Brian Bartlett

Report ID:

A2H0989 - 09 15 22 1003

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Headbox	A2H0989-01	Water	08/30/22 10:45	08/31/22 12:35
Whitewater	A2H0989-02	Water	08/30/22 09:15	08/31/22 12:35
Machine Chest	A2H0989-03	Water	08/30/22 08:22	08/31/22 12:35
Press Pit	A2H0989-04	Water	08/30/22 09:30	08/31/22 12:35
Hydrosieves	A2H0989-05	Water	08/30/22 10:05	08/31/22 12:35

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Stimson Lumber Co.

PO Box 68

Forest Grove, OR 97204

Project: WWTP

Project Number: [none]

Project Manager: **Brian Bartlett**

Report ID:

A2H0989 - 09 15 22 1003

ANALYTICAL CASE NARRATIVE

Work Order: A2H0989

Temperature Exceedance-

Samples were received at 20.6 °C, which exceeds the regulatory requirements for proper storage at less than or equal to 6 °C.

Affected samples or specific analyses have been qualified with "TEMP" in this report.

Cameron O'Brien
Project Manager
8/31/22

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062Stimson Lumber Co.
PO Box 68
Forest Grove, OR 97204Project: **WWTP**
Project Number: [none]
Project Manager: Brian BartlettReport ID:
A2H0989 - 09 15 22 1003

ANALYTICAL SAMPLE RESULTS

Purgeable Organic Compounds by EPA 624.1

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Headbox (A2H0989-01RE1)		Matrix: Water		Batch: 2210191		R-04, TEMP, V-01		
4-Methyl-2-pentanone (MiBK)	ND	25.0	50.0	ug/L	5	09/08/22 21:16	EPA 624.1	
Acetone	623	50.0	100	ug/L	5	09/08/22 21:16	EPA 624.1	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	109 %	Limits:	80-120 %	1	09/08/22 21:16	EPA 624.1
Toluene-d8 (Surr)			102 %		85-120 %	1	09/08/22 21:16	EPA 624.1
4-Bromofluorobenzene (Surr)			90 %		75-120 %	1	09/08/22 21:16	EPA 624.1
Whitewater (A2H0989-02RE1)		Matrix: Water		Batch: 2210191		R-04, TEMP, V-01		
4-Methyl-2-pentanone (MiBK)	ND	25.0	50.0	ug/L	5	09/08/22 21:44	EPA 624.1	
Acetone	560	50.0	100	ug/L	5	09/08/22 21:44	EPA 624.1	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	109 %	Limits:	80-120 %	1	09/08/22 21:44	EPA 624.1
Toluene-d8 (Surr)			102 %		85-120 %	1	09/08/22 21:44	EPA 624.1
4-Bromofluorobenzene (Surr)			90 %		75-120 %	1	09/08/22 21:44	EPA 624.1
Machine Chest (A2H0989-03RE1)		Matrix: Water		Batch: 2210191		R-04, TEMP, V-01		
4-Methyl-2-pentanone (MiBK)	ND	25.0	50.0	ug/L	5	09/08/22 22:11	EPA 624.1	
Acetone	733	50.0	100	ug/L	5	09/08/22 22:11	EPA 624.1	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	108 %	Limits:	80-120 %	1	09/08/22 22:11	EPA 624.1
Toluene-d8 (Surr)			101 %		85-120 %	1	09/08/22 22:11	EPA 624.1
4-Bromofluorobenzene (Surr)			88 %		75-120 %	1	09/08/22 22:11	EPA 624.1
Press Pit (A2H0989-04RE1)		Matrix: Water		Batch: 2210191		R-04, TEMP, V-01		
4-Methyl-2-pentanone (MiBK)	ND	25.0	50.0	ug/L	5	09/08/22 20:49	EPA 624.1	
Acetone	109	50.0	100	ug/L	5	09/08/22 20:49	EPA 624.1	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	110 %	Limits:	80-120 %	1	09/08/22 20:49	EPA 624.1
Toluene-d8 (Surr)			102 %		85-120 %	1	09/08/22 20:49	EPA 624.1
4-Bromofluorobenzene (Surr)			94 %		75-120 %	1	09/08/22 20:49	EPA 624.1
Hydrosieves (A2H0989-05RE1)		Matrix: Water		Batch: 2210191		R-04, TEMP, V-01		
4-Methyl-2-pentanone (MiBK)	ND	25.0	50.0	ug/L	5	09/08/22 20:22	EPA 624.1	
Acetone	293	50.0	100	ug/L	5	09/08/22 20:22	EPA 624.1	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	110 %	Limits:	80-120 %	1	09/08/22 20:22	EPA 624.1
Toluene-d8 (Surr)			102 %		85-120 %	1	09/08/22 20:22	EPA 624.1
4-Bromofluorobenzene (Surr)			93 %		75-120 %	1	09/08/22 20:22	EPA 624.1

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062Stimson Lumber Co.
PO Box 68
Forest Grove, OR 97204Project: WWTP
Project Number: [none]
Project Manager: Brian BartlettReport ID:
A2H0989 - 09 15 22 1003

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 625.1

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Headbox (A2H0989-01)		Matrix: Water		Batch: 2210025		R-04, TEMP		
Phenol	73.0	51.9	104	ug/L	40	09/01/22 19:05	EPA 625.1	J
Surrogate: Nitrobenzene-d5 (Surr)		Recovery:	31 %	Limits: 40-110 %	40	09/01/22 19:05	EPA 625.1	S-05
2-Fluorobiphenyl (Surr)			10 %	50-110 %	40	09/01/22 19:05	EPA 625.1	S-05
Phenol-d6 (Surr)			14 %	8-424 %	40	09/01/22 19:05	EPA 625.1	S-05
p-Terphenyl-d14 (Surr)			12 %	50-135 %	40	09/01/22 19:05	EPA 625.1	S-05
2-Fluorophenol (Surr)			16 %	20-110 %	40	09/01/22 19:05	EPA 625.1	S-05
2,4,6-Tribromophenol (Surr)			78 %	40-125 %	40	09/01/22 19:05	EPA 625.1	S-05
Whitewater (A2H0989-02)		Matrix: Water		Batch: 2210025		R-04, TEMP		
Phenol	52.2	46.0	92.0	ug/L	40	09/01/22 19:41	EPA 625.1	J
Surrogate: Nitrobenzene-d5 (Surr)		Recovery:	36 %	Limits: 40-110 %	40	09/01/22 19:41	EPA 625.1	S-05
2-Fluorobiphenyl (Surr)			10 %	50-110 %	40	09/01/22 19:41	EPA 625.1	S-05
Phenol-d6 (Surr)			14 %	8-424 %	40	09/01/22 19:41	EPA 625.1	S-05
p-Terphenyl-d14 (Surr)			14 %	50-135 %	40	09/01/22 19:41	EPA 625.1	S-05
2-Fluorophenol (Surr)			16 %	20-110 %	40	09/01/22 19:41	EPA 625.1	S-05
2,4,6-Tribromophenol (Surr)			70 %	40-125 %	40	09/01/22 19:41	EPA 625.1	S-05
Machine Chest (A2H0989-03)		Matrix: Water		Batch: 2210025		R-04, TEMP		
Phenol	47.8	42.6	85.1	ug/L	40	09/01/22 20:17	EPA 625.1	J
Surrogate: Nitrobenzene-d5 (Surr)		Recovery:	53 %	Limits: 40-110 %	40	09/01/22 20:17	EPA 625.1	S-05
2-Fluorobiphenyl (Surr)			10 %	50-110 %	40	09/01/22 20:17	EPA 625.1	S-05
Phenol-d6 (Surr)			13 %	8-424 %	40	09/01/22 20:17	EPA 625.1	S-05
p-Terphenyl-d14 (Surr)			7 %	50-135 %	40	09/01/22 20:17	EPA 625.1	S-05
2-Fluorophenol (Surr)			19 %	20-110 %	40	09/01/22 20:17	EPA 625.1	S-05
2,4,6-Tribromophenol (Surr)			85 %	40-125 %	40	09/01/22 20:17	EPA 625.1	S-05
Press Pit (A2H0989-04)		Matrix: Water		Batch: 2210025		TEMP		
Phenol	106	40.4	80.8	ug/L	40	09/01/22 20:53	EPA 625.1	
Surrogate: Nitrobenzene-d5 (Surr)		Recovery:	47 %	Limits: 40-110 %	40	09/01/22 20:53	EPA 625.1	S-05
2-Fluorobiphenyl (Surr)			21 %	50-110 %	40	09/01/22 20:53	EPA 625.1	S-05
Phenol-d6 (Surr)			19 %	8-424 %	40	09/01/22 20:53	EPA 625.1	S-05
p-Terphenyl-d14 (Surr)			13 %	50-135 %	40	09/01/22 20:53	EPA 625.1	S-05
2-Fluorophenol (Surr)			35 %	20-110 %	40	09/01/22 20:53	EPA 625.1	S-05
2,4,6-Tribromophenol (Surr)			107 %	40-125 %	40	09/01/22 20:53	EPA 625.1	S-05
Hydrosieves (A2H0989-05)		Matrix: Water		Batch: 2210025		R-04, TEMP		
Phenol	68.2	46.5	93.0	ug/L	40	09/01/22 21:29	EPA 625.1	J

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323

ORELAP ID: OR100062

Stimson Lumber Co.
PO Box 68
Forest Grove, OR 97204

Project: **WWTP**
Project Number: [none]
Project Manager: **Brian Bartlett**

Report ID:
A2H0989 - 09 15 22 1003

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 625.1

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Hydrosieves (A2H0989-05)				Matrix: Water		Batch: 2210025		R-04, TEMP
Surrogate: Nitrobenzene-d5 (Surr)		Recovery:	29 %	Limits: 40-110 %	40	09/01/22 21:29	EPA 625.1	S-05
2-Fluorobiphenyl (Surr)			27 %	50-110 %	40	09/01/22 21:29	EPA 625.1	S-05
Phenol-d6 (Surr)			14 %	8-424 %	40	09/01/22 21:29	EPA 625.1	S-05
p-Terphenyl-d14 (Surr)			25 %	50-135 %	40	09/01/22 21:29	EPA 625.1	S-05
2-Fluorophenol (Surr)			15 %	20-110 %	40	09/01/22 21:29	EPA 625.1	S-05
2,4,6-Tribromophenol (Surr)			91 %	40-125 %	40	09/01/22 21:29	EPA 625.1	S-05

Apex Laboratories

Darrell Auvil, Client Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Stimson Lumber Co.

PO Box 68

Forest Grove, OR 97204

Project: **WWTP**

Project Number: [none]

Project Manager: **Brian Bartlett****Report ID:****A2H0989 - 09 15 22 1003**

QUALITY CONTROL (QC) SAMPLE RESULTS

Purgeable Organic Compounds by EPA 624.1

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22I0191 - EPA 5030C						Water						
Blank (22I0191-BLK1)		Prepared: 09/08/22 09:00		Analyzed: 09/08/22 11:45								
EPA 624.1												
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Acetone	ND	10.0	20.0	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 107 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		102 %		85-120 %		"						
4-Bromofluorobenzene (Surr)		99 %		75-120 %		"						
LCS (22I0191-BS1)		Prepared: 09/08/22 09:00		Analyzed: 09/08/22 10:51								
EPA 624.1												
4-Methyl-2-pentanone (MiBK)	39.6	5.00	10.0	ug/L	1	40.0	---	99	67 - 130%	---	---	
Acetone	36.9	10.0	20.0	ug/L	1	40.0	---	92	39 - 160%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 104 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		100 %		85-120 %		"						
4-Bromofluorobenzene (Surr)		90 %		75-120 %		"						

Apex Laboratories

Darrell Auvil, Client Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Stimson Lumber Co.

PO Box 68

Forest Grove, OR 97204

Project: **WWTP**

Project Number: [none]

Project Manager: **Brian Bartlett****Report ID:****A2H0989 - 09 15 22 1003**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 625.1

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22I0025 - EPA 3510C (Acid Extraction)						Water						
Blank (22I0025-BLK2)		Prepared: 09/01/22 11:19 Analyzed: 09/01/22 17:16										
EPA 625.1												
Acenaphthene	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
Acenaphthylene	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
Anthracene	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
Chrysene	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
Fluoranthene	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
Fluorene	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
Phenanthrene	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
Pyrene	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
Carbazole	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
Dibenzofuran	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
2-Chlorophenol	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
4-Chloro-3-methylphenol	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
2,4-Dichlorophenol	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
2,4-Dimethylphenol	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
2,4-Dinitrophenol	ND	0.455	0.909	ug/L	1	---	---	---	---	---	---	
4,6-Dinitro-2-methylphenol	ND	0.455	0.909	ug/L	1	---	---	---	---	---	---	
2-Methylphenol	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
3+4-Methylphenol(s)	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
2-Nitrophenol	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
4-Nitrophenol	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
Pentachlorophenol (PCP)	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
Phenol	ND	0.364	0.727	ug/L	1	---	---	---	---	---	---	
2,3,4,6-Tetrachlorophenol	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062Stimson Lumber Co.
PO Box 68
Forest Grove, OR 97204Project: **WWTP**
Project Number: [none]
Project Manager: **Brian Bartlett****Report ID:**
A2H0989 - 09 15 22 1003

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 625.1

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2210025 - EPA 3510C (Acid Extraction)						Water						
Blank (2210025-BLK2)		Prepared: 09/01/22 11:19		Analyzed: 09/01/22 17:16								
2,4,5-Trichlorophenol	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
Nitrobenzene	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
2,4,6-Trichlorophenol	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
Bis(2-ethylhexyl)phthalate	ND	0.364	0.727	ug/L	1	---	---	---	---	---	---	
Butyl benzyl phthalate	ND	0.364	0.727	ug/L	1	---	---	---	---	---	---	
Diethylphthalate	ND	0.364	0.727	ug/L	1	---	---	---	---	---	---	
Dimethylphthalate	ND	0.364	0.727	ug/L	1	---	---	---	---	---	---	
Di-n-butylphthalate	ND	0.364	0.727	ug/L	1	---	---	---	---	---	---	
Di-n-octyl phthalate	ND	0.364	0.727	ug/L	1	---	---	---	---	---	---	
N-Nitrosodimethylamine	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
N-Nitroso-di-n-propylamine	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
N-Nitrosodiphenylamine	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
Bis(2-Chloroethoxy) methane	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
Bis(2-Chloroethyl) ether	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
2,2'-Oxybis(1-Chloropropane)	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
Hexachlorobenzene	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
Hexachlorocyclopentadiene	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
Hexachloroethane	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
2-Chloronaphthalene	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
4-Bromophenyl phenyl ether	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
4-Chlorophenyl phenyl ether	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
2,4-Dinitrotoluene	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
2,6-Dinitrotoluene	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
Isophorone	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
Azobenzene (1,2-DPH)	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
Benzidine	ND	0.909	1.82	ug/L	1	---	---	---	---	---	---	Q-52
3,3'-Dichlorobenzidine	ND	0.909	1.82	ug/L	1	---	---	---	---	---	---	Q-52
Surr: Nitrobenzene-d5 (Surr)		Recovery: 54 %		Limits: 40-110 %		Dilution: 1x						
2-Fluorobiphenyl (Surr)		65 %		50-110 %		"						
Phenol-d6 (Surr)		18 %		8-424 %		"						
p-Terphenyl-d14 (Surr)		92 %		50-135 %		"						
2-Fluorophenol (Surr)		33 %		20-110 %		"						

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323

ORELAP ID: OR100062

Stimson Lumber Co.
PO Box 68
Forest Grove, OR 97204Project: **WWTP**
Project Number: [none]
Project Manager: **Brian Bartlett****Report ID:**
A2H0989 - 09 15 22 1003

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 625.1

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2210025 - EPA 3510C (Acid Extraction)							Water					
Blank (2210025-BLK2)		Prepared: 09/01/22 11:19 Analyzed: 09/01/22 17:16										
Surr: 2,4,6-Tribromophenol (Surr)		Recovery: 84 %		Limits: 40-125 %		Dilution: 1x						
LCS (2210025-BS2)		Prepared: 09/01/22 11:19 Analyzed: 09/01/22 17:52										
EPA 625.1												
Acenaphthene	5.62	0.400	0.800	ug/L	4	8.00	---	70	47 - 145%	---	---	
Acenaphthylene	5.60	0.400	0.800	ug/L	4	8.00	---	70	33 - 145%	---	---	
Anthracene	6.62	0.400	0.800	ug/L	4	8.00	---	83	27 - 133%	---	---	
Benz(a)anthracene	6.70	0.400	0.800	ug/L	4	8.00	---	84	33 - 143%	---	---	
Benzo(a)pyrene	6.54	0.400	0.800	ug/L	4	8.00	---	82	17 - 163%	---	---	
Benzo(b)fluoranthene	7.01	0.400	0.800	ug/L	4	8.00	---	88	24 - 159%	---	---	
Benzo(k)fluoranthene	7.19	0.400	0.800	ug/L	4	8.00	---	90	11 - 162%	---	---	
Benzo(g,h,i)perylene	6.66	0.400	0.800	ug/L	4	8.00	---	83	1 - 219%	---	---	
Chrysene	6.81	0.400	0.800	ug/L	4	8.00	---	85	17 - 168%	---	---	
Dibenz(a,h)anthracene	6.64	0.400	0.800	ug/L	4	8.00	---	83	1 - 227%	---	---	
Fluoranthene	6.88	0.400	0.800	ug/L	4	8.00	---	86	26 - 137%	---	---	
Fluorene	6.27	0.400	0.800	ug/L	4	8.00	---	78	59 - 121%	---	---	
Indeno(1,2,3-cd)pyrene	6.49	0.400	0.800	ug/L	4	8.00	---	81	1 - 171%	---	---	
1-Methylnaphthalene	4.88	0.400	0.800	ug/L	4	8.00	---	61	41 - 130%	---	---	
2-Methylnaphthalene	4.81	0.400	0.800	ug/L	4	8.00	---	60	40 - 130%	---	---	
Naphthalene	4.37	0.400	0.800	ug/L	4	8.00	---	55	21 - 133%	---	---	
Phenanthrene	6.47	0.400	0.800	ug/L	4	8.00	---	81	54 - 120%	---	---	
Pyrene	6.85	0.400	0.800	ug/L	4	8.00	---	86	52 - 120%	---	---	
Carbazole	6.74	0.400	0.800	ug/L	4	8.00	---	84	60 - 130%	---	---	
Dibenzofuran	5.96	0.400	0.800	ug/L	4	8.00	---	74	53 - 130%	---	---	
2-Chlorophenol	4.11	0.400	0.800	ug/L	4	8.00	---	51	23 - 134%	---	---	
4-Chloro-3-methylphenol	6.22	0.800	1.60	ug/L	4	8.00	---	78	22 - 147%	---	---	
2,4-Dichlorophenol	5.45	0.400	0.800	ug/L	4	8.00	---	68	39 - 135%	---	---	
2,4-Dimethylphenol	5.64	0.400	0.800	ug/L	4	8.00	---	70	32 - 120%	---	---	
2,4-Dinitrophenol	4.92	2.00	4.00	ug/L	4	8.00	---	62	1 - 191%	---	---	
4,6-Dinitro-2-methylphenol	6.43	2.00	4.00	ug/L	4	8.00	---	80	1 - 181%	---	---	
2-Methylphenol	3.86	0.400	0.800	ug/L	4	8.00	---	48	30 - 130%	---	---	
3+4-Methylphenol(s)	3.82	0.400	0.800	ug/L	4	8.00	---	48	29 - 130%	---	---	
2-Nitrophenol	4.66	0.800	1.60	ug/L	4	8.00	---	58	29 - 182%	---	---	
4-Nitrophenol	1.04	0.800	0.800	ug/L	4	8.00	---	13	1 - 132%	---	---	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager

Page 10 of 22



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323

ORELAP ID: OR100062

Stimson Lumber Co.

PO Box 68

Forest Grove, OR 97204

Project: WWTP

Project Number: [none]

Project Manager: Brian Bartlett

Report ID:

A2H0989 - 09 15 22 1003

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 625.1

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22I0025 - EPA 3510C (Acid Extraction)							Water					
LCS (22I0025-BS2)		Prepared: 09/01/22 11:19		Analyzed: 09/01/22 17:52								
Pentachlorophenol (PCP)	5.95	0.800	1.60	ug/L	4	8.00	---	74	14 - 176%	---	---	
Phenol	1.27	0.128	0.128	ug/L	4	8.00	---	16	5 - 120%	---	---	
2,3,4,6-Tetrachlorophenol	6.74	0.400	0.800	ug/L	4	8.00	---	84	50 - 130%	---	---	
2,4,5-Trichlorophenol	6.27	0.400	0.800	ug/L	4	8.00	---	78	53 - 130%	---	---	
Nitrobenzene	4.36	0.800	1.60	ug/L	4	8.00	---	55	35 - 180%	---	---	
2,4,6-Trichlorophenol	6.22	0.400	0.800	ug/L	4	8.00	---	78	37 - 144%	---	---	
Bis(2-ethylhexyl)phthalate	6.50	1.60	3.20	ug/L	4	8.00	---	81	8 - 158%	---	---	
Butyl benzyl phthalate	6.78	1.60	3.20	ug/L	4	8.00	---	85	1 - 152%	---	---	
Diethylphthalate	6.79	1.60	3.20	ug/L	4	8.00	---	85	1 - 120%	---	---	
Dimethylphthalate	6.85	1.60	3.20	ug/L	4	8.00	---	86	1 - 120%	---	---	
Di-n-butylphthalate	7.00	1.60	3.20	ug/L	4	8.00	---	88	1 - 120%	---	---	
Di-n-octyl phthalate	6.49	1.60	3.20	ug/L	4	8.00	---	81	4 - 146%	---	---	
N-Nitrosodimethylamine	1.38	0.400	0.800	ug/L	4	8.00	---	17	11 - 130%	---	---	
N-Nitroso-di-n-propylamine	5.40	0.400	0.800	ug/L	4	8.00	---	67	1 - 230%	---	---	
N-Nitrosodiphenylamine	6.56	0.400	0.800	ug/L	4	8.00	---	82	51 - 130%	---	---	
Bis(2-Chloroethoxy) methane	5.20	0.400	0.800	ug/L	4	8.00	---	65	33 - 184%	---	---	
Bis(2-Chloroethyl) ether	4.02	0.400	0.800	ug/L	4	8.00	---	50	12 - 158%	---	---	
2,2'-Oxybis(1-Chloropropane)	4.14	0.400	0.800	ug/L	4	8.00	---	52	24 - 130%	---	---	
Hexachlorobenzene	6.98	0.400	0.800	ug/L	4	8.00	---	87	1 - 152%	---	---	
Hexachlorobutadiene	3.67	0.400	0.800	ug/L	4	8.00	---	46	24 - 120%	---	---	
Hexachlorocyclopentadiene	2.82	0.400	0.800	ug/L	4	8.00	---	35	10 - 130%	---	---	
Hexachloroethane	3.38	0.400	0.800	ug/L	4	8.00	---	42	40 - 120%	---	---	
2-Chloronaphthalene	4.82	0.400	0.800	ug/L	4	8.00	---	60	60 - 120%	---	---	
1,2,4-Trichlorobenzene	3.95	0.400	0.800	ug/L	4	8.00	---	49	44 - 142%	---	---	
4-Bromophenyl phenyl ether	6.75	0.400	0.800	ug/L	4	8.00	---	84	53 - 127%	---	---	
4-Chlorophenyl phenyl ether	6.29	0.400	0.800	ug/L	4	8.00	---	79	25 - 158%	---	---	
2,4-Dinitrotoluene	6.58	0.800	1.60	ug/L	4	8.00	---	82	39 - 139%	---	---	
2,6-Dinitrotoluene	6.88	0.800	1.60	ug/L	4	8.00	---	86	50 - 158%	---	---	
Isophorone	5.70	0.400	0.800	ug/L	4	8.00	---	71	21 - 196%	---	---	
Azobenzene (1,2-DPH)	5.85	0.400	0.800	ug/L	4	8.00	---	73	61 - 130%	---	---	
Benzidine	ND	4.00	8.00	ug/L	4	16.0	---		10 - 140%	---	---	Q-30
3,3'-Dichlorobenzidine	43.0	4.00	8.00	ug/L	4	16.0	---	268	1 - 262%	---	---	Q-29
Surr: Nitrobenzene-d5 (Surr)		Recovery: 50 %		Limits: 40-110 %		Dilution: 4x						
2-Fluorobiphenyl (Surr)		63 %		50-110 %		"						

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323

ORELAP ID: OR100062

Stimson Lumber Co.
PO Box 68
Forest Grove, OR 97204Project: WWTP
Project Number: [none]
Project Manager: Brian BartlettReport ID:
A2H0989 - 09 15 22 1003

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 625.1

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 2210025 - EPA 3510C (Acid Extraction)							Water						
LCS (2210025-BS2)		Prepared: 09/01/22 11:19		Analyzed: 09/01/22 17:52									
Surr: Phenol-d6 (Surr)		Recovery: 17 %		Limits: 8-424 %		Dilution: 4x							
p-Terphenyl-d14 (Surr)		80 %		50-135 %		"							
2-Fluorophenol (Surr)		24 %		20-110 %		"							
2,4,6-Tribromophenol (Surr)		87 %		40-125 %		"							
LCS Dup (2210025-BSD2)		Prepared: 09/01/22 11:19		Analyzed: 09/01/22 18:29									Q-19
EPA 625.1													
Acenaphthene	6.35	0.400	0.800	ug/L	4	8.00	---	79	47 - 145%	12	30%		
Acenaphthylene	6.19	0.400	0.800	ug/L	4	8.00	---	77	33 - 145%	10	30%		
Anthracene	7.14	0.400	0.800	ug/L	4	8.00	---	89	27 - 133%	7	30%		
Benz(a)anthracene	7.00	0.400	0.800	ug/L	4	8.00	---	88	33 - 143%	4	30%		
Benzo(a)pyrene	7.09	0.400	0.800	ug/L	4	8.00	---	89	17 - 163%	8	30%		
Benzo(b)fluoranthene	7.41	0.400	0.800	ug/L	4	8.00	---	93	24 - 159%	6	30%		
Benzo(k)fluoranthene	7.57	0.400	0.800	ug/L	4	8.00	---	95	11 - 162%	5	30%		
Benzo(g,h,i)perylene	7.13	0.400	0.800	ug/L	4	8.00	---	89	1 - 219%	7	30%		
Chrysene	7.09	0.400	0.800	ug/L	4	8.00	---	89	17 - 168%	4	30%		
Dibenz(a,h)anthracene	7.11	0.400	0.800	ug/L	4	8.00	---	89	1 - 227%	7	30%		
Fluoranthene	7.30	0.400	0.800	ug/L	4	8.00	---	91	26 - 137%	6	30%		
Fluorene	6.95	0.400	0.800	ug/L	4	8.00	---	87	59 - 121%	10	30%		
Indeno(1,2,3-cd)pyrene	7.10	0.400	0.800	ug/L	4	8.00	---	89	1 - 171%	9	30%		
1-Methylnaphthalene	5.96	0.400	0.800	ug/L	4	8.00	---	74	41 - 130%	20	30%		
2-Methylnaphthalene	5.81	0.400	0.800	ug/L	4	8.00	---	73	40 - 130%	19	30%		
Naphthalene	5.15	0.400	0.800	ug/L	4	8.00	---	64	21 - 133%	16	30%		
Phenanthrene	6.96	0.400	0.800	ug/L	4	8.00	---	87	54 - 120%	7	30%		
Pyrene	7.29	0.400	0.800	ug/L	4	8.00	---	91	52 - 120%	6	30%		
Carbazole	7.22	0.400	0.800	ug/L	4	8.00	---	90	60 - 130%	7	30%		
Dibenzofuran	6.62	0.400	0.800	ug/L	4	8.00	---	83	53 - 130%	11	30%		
2-Chlorophenol	4.56	0.400	0.800	ug/L	4	8.00	---	57	23 - 134%	11	30%		
4-Chloro-3-methylphenol	6.74	0.800	1.60	ug/L	4	8.00	---	84	22 - 147%	8	30%		
2,4-Dichlorophenol	5.97	0.400	0.800	ug/L	4	8.00	---	75	39 - 135%	9	30%		
2,4-Dimethylphenol	5.78	0.400	0.800	ug/L	4	8.00	---	72	32 - 120%	2	30%		
2,4-Dinitrophenol	5.76	2.00	4.00	ug/L	4	8.00	---	72	1 - 191%	16	30%		
4,6-Dinitro-2-methylphenol	7.10	2.00	4.00	ug/L	4	8.00	---	89	1 - 181%	10	30%		
2-Methylphenol	4.19	0.400	0.800	ug/L	4	8.00	---	52	30 - 130%	8	30%		

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323

ORELAP ID: OR100062

Stimson Lumber Co.
PO Box 68
Forest Grove, OR 97204Project: WWTP
Project Number: [none]
Project Manager: Brian BartlettReport ID:
A2H0989 - 09 15 22 1003

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 625.1

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2210025 - EPA 3510C (Acid Extraction)							Water					
LCS Dup (2210025-BSD2)		Prepared: 09/01/22 11:19			Analyzed: 09/01/22 18:29			Q-19				
3+4-Methylphenol(s)	4.22	0.400	0.800	ug/L	4	8.00	---	53	29 - 130%	10	30%	
2-Nitrophenol	5.10	0.800	1.60	ug/L	4	8.00	---	64	29 - 182%	9	30%	
4-Nitrophenol	1.17	0.800	0.800	ug/L	4	8.00	---	15	1 - 132%	12	30%	
Pentachlorophenol (PCP)	6.44	0.800	1.60	ug/L	4	8.00	---	80	14 - 176%	8	30%	
Phenol	1.46	0.128	0.128	ug/L	4	8.00	---	18	5 - 120%	14	30%	
2,3,4,6-Tetrachlorophenol	7.32	0.400	0.800	ug/L	4	8.00	---	92	50 - 130%	8	30%	
2,4,5-Trichlorophenol	6.82	0.400	0.800	ug/L	4	8.00	---	85	53 - 130%	8	30%	
Nitrobenzene	4.87	0.800	1.60	ug/L	4	8.00	---	61	35 - 180%	11	30%	
2,4,6-Trichlorophenol	6.75	0.400	0.800	ug/L	4	8.00	---	84	37 - 144%	8	30%	
Bis(2-ethylhexyl)phthalate	6.84	1.60	3.20	ug/L	4	8.00	---	86	8 - 158%	5	30%	
Butyl benzyl phthalate	7.01	1.60	3.20	ug/L	4	8.00	---	88	1 - 152%	3	30%	
Diethylphthalate	7.16	1.60	3.20	ug/L	4	8.00	---	89	1 - 120%	5	30%	
Dimethylphthalate	7.24	1.60	3.20	ug/L	4	8.00	---	90	1 - 120%	5	30%	
Di-n-butylphthalate	7.35	1.60	3.20	ug/L	4	8.00	---	92	1 - 120%	5	30%	
Di-n-octyl phthalate	6.79	1.60	3.20	ug/L	4	8.00	---	85	4 - 146%	5	30%	
N-Nitrosodimethylamine	1.53	0.400	0.800	ug/L	4	8.00	---	19	11 - 130%	10	30%	
N-Nitroso-di-n-propylamine	6.00	0.400	0.800	ug/L	4	8.00	---	75	1 - 230%	11	30%	
N-Nitrosodiphenylamine	7.05	0.400	0.800	ug/L	4	8.00	---	88	51 - 130%	7	30%	
Bis(2-Chloroethoxy) methane	5.58	0.400	0.800	ug/L	4	8.00	---	70	33 - 184%	7	30%	
Bis(2-Chloroethyl) ether	4.36	0.400	0.800	ug/L	4	8.00	---	54	12 - 158%	8	30%	
2,2'-Oxybis(1-Chloropropane)	4.63	0.400	0.800	ug/L	4	8.00	---	58	24 - 130%	11	30%	
Hexachlorobenzene	7.50	0.400	0.800	ug/L	4	8.00	---	94	1 - 152%	7	30%	
Hexachlorobutadiene	4.61	0.400	0.800	ug/L	4	8.00	---	58	24 - 120%	23	30%	
Hexachlorocyclopentadiene	3.90	0.400	0.800	ug/L	4	8.00	---	49	10 - 130%	32	30%	Q-24
Hexachloroethane	4.39	0.400	0.800	ug/L	4	8.00	---	55	40 - 120%	26	30%	
2-Chloronaphthalene	5.58	0.400	0.800	ug/L	4	8.00	---	70	60 - 120%	15	30%	
1,2,4-Trichlorobenzene	4.87	0.400	0.800	ug/L	4	8.00	---	61	44 - 142%	21	30%	
4-Bromophenyl phenyl ether	7.38	0.400	0.800	ug/L	4	8.00	---	92	53 - 127%	9	30%	
4-Chlorophenyl phenyl ether	7.04	0.400	0.800	ug/L	4	8.00	---	88	25 - 158%	11	30%	
2,4-Dinitrotoluene	7.12	0.800	1.60	ug/L	4	8.00	---	89	39 - 139%	8	30%	
2,6-Dinitrotoluene	7.28	0.800	1.60	ug/L	4	8.00	---	91	50 - 158%	6	30%	
Isophorone	6.18	0.400	0.800	ug/L	4	8.00	---	77	21 - 196%	8	30%	
Azobenzene (1,2-DPH)	6.42	0.400	0.800	ug/L	4	8.00	---	80	61 - 130%	9	30%	
Benzidine	ND	4.00	8.00	ug/L	4	16.0	---	10 - 140%		30%	Q-30	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager

Page 13 of 22



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323

ORELAP ID: OR100062

Stimson Lumber Co.
PO Box 68
Forest Grove, OR 97204Project: WWTP
Project Number: [none]
Project Manager: Brian Bartlett**Report ID:**
A2H0989 - 09 15 22 1003

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 625.1

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22I0025 - EPA 3510C (Acid Extraction)							Water					
LCS Dup (22I0025-BSD2)		Prepared: 09/01/22 11:19		Analyzed: 09/01/22 18:29		Q-19						
3,3'-Dichlorobenzidine	44.1	4.00	8.00	ug/L	4	16.0	---	275	1 - 262%	3	30%	Q-29
Surr: Nitrobenzene-d5 (Surr)		Recovery: 56 %		Limits: 40-110 %		Dilution: 4x						
2-Fluorobiphenyl (Surr)		73 %		50-110 %		"						
Phenol-d6 (Surr)		18 %		8-424 %		"						
p-Terphenyl-d14 (Surr)		85 %		50-135 %		"						
2-Fluorophenol (Surr)		28 %		20-110 %		"						
2,4,6-Tribromophenol (Surr)		93 %		40-125 %		"						

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager

Page 14 of 22

**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323

ORELAP ID: OR100062

Stimson Lumber Co.
PO Box 68
Forest Grove, OR 97204Project: **WWTP**
Project Number: [none]
Project Manager: **Brian Bartlett****Report ID:**
A2H0989 - 09 15 22 1003**SAMPLE PREPARATION INFORMATION****Purgeable Organic Compounds by EPA 624.1****Prep: EPA 5030C**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 22I0191							
A2H0989-01RE1	Water	EPA 624.1	08/30/22 10:45	09/08/22 09:00	5mL/5mL	5mL/5mL	1.00
A2H0989-02RE1	Water	EPA 624.1	08/30/22 09:15	09/08/22 09:00	5mL/5mL	5mL/5mL	1.00
A2H0989-03RE1	Water	EPA 624.1	08/30/22 08:22	09/08/22 09:00	5mL/5mL	5mL/5mL	1.00
A2H0989-04RE1	Water	EPA 624.1	08/30/22 09:30	09/08/22 09:00	5mL/5mL	5mL/5mL	1.00
A2H0989-05RE1	Water	EPA 624.1	08/30/22 10:05	09/08/22 09:00	5mL/5mL	5mL/5mL	1.00

Semivolatile Organic Compounds by EPA 625.1**Prep: EPA 3510C (Acid Extraction)**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 22I0025							
A2H0989-01	Water	EPA 625.1	08/30/22 10:45	09/01/22 11:21	770mL/5mL	1000mL/5mL	1.30
A2H0989-02	Water	EPA 625.1	08/30/22 09:15	09/01/22 11:21	870mL/5mL	1000mL/5mL	1.15
A2H0989-03	Water	EPA 625.1	08/30/22 08:22	09/01/22 11:21	940mL/5mL	1000mL/5mL	1.06
A2H0989-04	Water	EPA 625.1	08/30/22 09:30	09/01/22 11:21	990mL/5mL	1000mL/5mL	1.01
A2H0989-05	Water	EPA 625.1	08/30/22 10:05	09/01/22 11:21	860mL/5mL	1000mL/5mL	1.16

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Stimson Lumber Co.
PO Box 68
Forest Grove, OR 97204

Project: **WWTP**
Project Number: [none]
Project Manager: **Brian Bartlett**

Report ID:
A2H0989 - 09 15 22 1003

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

J	Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
Q-19	Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
Q-24	The RPD for this spike and spike duplicate is above established control limits. Recoveries for both the spike and spike duplicate are within control limits.
Q-29	Recovery for Lab Control Spike (LCS) is above the upper control limit. Data may be biased high.
Q-30	Recovery for Lab Control Spike (LCS) is below the lower control limit. Data may be biased low.
Q-52	Due to known erratic recoveries, the result and reporting levels for this analyte are reported as Estimated Values. This analyte may not have passed all QC requirements for this method.
R-04	Reporting levels elevated due to preparation and/or analytical dilution necessary for analysis.
S-05	Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.
TEMP	Sample was received outside of recommended temperature. See Case Narrative.
V-01	Sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Stimson Lumber Co.
PO Box 68
Forest Grove, OR 97204

Project: **WWTP**
Project Number: [none]
Project Manager: **Brian Bartlett**

Report ID:
A2H0989 - 09 15 22 1003

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET Analyte DETECTED at or above the detection or reporting limit.
ND Analyte NOT DETECTED at or above the detection or reporting limit.
NR Result Not Reported.
RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.

"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.

"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) are not included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).
-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Stimson Lumber Co.
PO Box 68
Forest Grove, OR 97204

Project: **WWTP**
Project Number: [none]
Project Manager: **Brian Bartlett**

Report ID:
A2H0989 - 09 15 22 1003

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Stimson Lumber Co.
PO Box 68
Forest Grove, OR 97204

Project: **WWTP**
Project Number: [none]
Project Manager: **Brian Bartlett**

Report ID:
A2H0989 - 09 15 22 1003

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation)

EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
<u>All reported analytes are included in Apex Laboratories' current ORELAP scope.</u>					

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.
Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Stimson Lumber Co.

PO Box 68

Forest Grove, OR 97204

Project: WWTP

Project Number: [none]

Project Manager: Brian Bartlett

Report ID:

A2H0989 - 09 15 22 1003

APEX LABS COOLER RECEIPT FORM

Client: Stimson Lumber Element WO#: A2 H0989Project/Project #: WWTP

Delivery Info:

Date/time received: 8-31-22 @ 1233 By: DJSDelivered by: Apex ☐ Client ☐ ESS ☐ FedEx ☐ UPS ☒ Swift ☐ Senvoy ☐ SDS ☐ Other ☐Cooler Inspection Date/time inspected: 8-31-22 @ 1235 By: DJSChain of Custody included? Yes ☒ No ☐ Custody seals? Yes ☐ No ☒Signed/dated by client? Yes ☒ No ☐Signed/dated by Apex? Yes ☒ No ☐

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>20.6</u>						
Received on ice? (Y/N)	<input checked="" type="checkbox"/>						
Temp. blanks? (Y/N)	<u>N</u>						
Ice type: (Gel/Real/Other)	<u>Gel</u>						
Condition:	<u>Out</u>						

Cooler out of temp? ☒ (Y/N) Possible reason why: shipped via UPS, gel not frozenGreen dots applied to out of temperature samples? ☒ Yes/NoOut of temperature samples form initiated? ☒ Yes/NoSample Inspection: Date/time inspected: 8-31-22 @ 1500 By: DJSAll samples intact? Yes ☒ No ☒ Comments: 1 L unpreserved amber cap was received broken.Bottle labels/COCs agree? Yes ☐ No ☒ Comments: Hydrosieves container Times read 1005.No labels on individual vials - label was on baggy that held the 3 vials together.COC/container discrepancies form initiated? Yes ☐ No ☒Containers/volumes received appropriate for analysis? Yes ☒ No ☐ Comments: Do VOA vials have visible headspace? Yes ☒ No ☐ NA ☐Comments: All vials have Headspace. All vials have sediment 15/15.Water samples: pH checked: Yes ☐ No ☐ NA ☒ pH appropriate? Yes ☐ No ☐ NA ☒Comments: Additional information: 1-2 983 055 03 6798 0695, Formaldehyde cancelled by client.

Labeled by:

DJS

Witness:

Cooler Inspected by:

DJS

Form Y-003 R-00

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvin, Client Services Manager

Page 22 of 22



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Thursday, October 6, 2022

Brian Bartlett
Stimson Lumber Co.
PO Box 68
Forest Grove, OR 97204

RE: A2I0707 - CAO - [none]

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A2I0707, which was received by the laboratory on 9/22/2022 at 1:00:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: DAuvil@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler #1	15.3 degC
-----------	-----------

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Stimson Lumber Co.
PO Box 68
Forest Grove, OR 97204

Project: CAO
Project Number: [none]
Project Manager: Brian Bartlett

Report ID:
A2I0707 - 10 06 22 1349

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Headbox	A2I0707-01	Water	09/20/22 10:15	09/22/22 13:00
Whitewater	A2I0707-02	Water	09/20/22 09:57	09/22/22 13:00
Machine Chest	A2I0707-03	Water	09/20/22 09:52	09/22/22 13:00
Press Pit	A2I0707-04	Water	09/20/22 10:34	09/22/22 13:00
Hydrosieves	A2I0707-05	Water	09/20/22 10:09	09/22/22 13:00

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Stimson Lumber Co.

PO Box 68
Forest Grove, OR 97204

Project: CAO

Project Number: [none]

Project Manager: **Brian Bartlett**

Report ID:

A2I0707 - 10 06 22 1349

ANALYTICAL CASE NARRATIVE

Work Order: A2I0707

Temperature Exceedance-

Samples were received at 15.3 °C, which exceeds the regulatory requirements for proper storage at less than or equal to 6 °C.

Affected samples or specific analyses have been qualified with "TEMP" in this report.

Diego Salazar
Sample Control
9-22-22

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062Stimson Lumber Co.
PO Box 68
Forest Grove, OR 97204Project: CAO
Project Number: [none]
Project Manager: Brian BartlettReport ID:
A2I0707 - 10 06 22 1349

ANALYTICAL SAMPLE RESULTS

Purgeable Organic Compounds by EPA 624.1

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Headbox (A2I0707-01)		Matrix: Water			Batch: 22I0637		TEMP, V-01, V-13	
Acrolein	ND	100	100	ug/L	20	09/23/22 08:39	EPA 624.1	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 106 %	Limits: 80-120 %	1	09/23/22 08:39	EPA 624.1		
Toluene-d8 (Surr)		105 %	85-120 %	1	09/23/22 08:39	EPA 624.1		
4-Bromofluorobenzene (Surr)		93 %	75-120 %	1	09/23/22 08:39	EPA 624.1		
Whitewater (A2I0707-02)		Matrix: Water			Batch: 22I0716		TEMP, V-01, V-13	
Acrolein	ND	100	100	ug/L	20	09/23/22 08:46	EPA 624.1	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 96 %	Limits: 80-120 %	1	09/23/22 08:46	EPA 624.1		
Toluene-d8 (Surr)		107 %	85-120 %	1	09/23/22 08:46	EPA 624.1		
4-Bromofluorobenzene (Surr)		98 %	75-120 %	1	09/23/22 08:46	EPA 624.1		
Machine Chest (A2I0707-03)		Matrix: Water			Batch: 22I0716		TEMP, V-01	
Acrolein	126	100	100	ug/L	20	09/23/22 08:24	EPA 624.1	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 95 %	Limits: 80-120 %	1	09/23/22 08:24	EPA 624.1		
Toluene-d8 (Surr)		106 %	85-120 %	1	09/23/22 08:24	EPA 624.1		
4-Bromofluorobenzene (Surr)		99 %	75-120 %	1	09/23/22 08:24	EPA 624.1		
Press Pit (A2I0707-04)		Matrix: Water			Batch: 22I0637		TEMP, V-01, V-13	
Acrolein	ND	100	100	ug/L	20	09/23/22 09:06	EPA 624.1	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 107 %	Limits: 80-120 %	1	09/23/22 09:06	EPA 624.1		
Toluene-d8 (Surr)		106 %	85-120 %	1	09/23/22 09:06	EPA 624.1		
4-Bromofluorobenzene (Surr)		92 %	75-120 %	1	09/23/22 09:06	EPA 624.1		
Hydrosieves (A2I0707-05)		Matrix: Water			Batch: 22I0716		TEMP, V-01, V-13	
Acrolein	ND	100	100	ug/L	20	09/23/22 09:08	EPA 624.1	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 96 %	Limits: 80-120 %	1	09/23/22 09:08	EPA 624.1		
Toluene-d8 (Surr)		106 %	85-120 %	1	09/23/22 09:08	EPA 624.1		
4-Bromofluorobenzene (Surr)		101 %	75-120 %	1	09/23/22 09:08	EPA 624.1		

Apex Laboratories

Darrell Auvil, Client Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Stimson Lumber Co.

PO Box 68

Forest Grove, OR 97204

Project: CAO

Project Number: [none]

Project Manager: Brian Bartlett

Report ID:

A210707 - 10 06 22 1349

QUALITY CONTROL (QC) SAMPLE RESULTS

Purgeable Organic Compounds by EPA 624.1

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2210637 - EPA 5030C						Water						
Blank (2210637-BLK1)			Prepared: 09/22/22 14:36 Analyzed: 09/23/22 02:47									
EPA 624.1												
Acrolein	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 108 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		106 %		85-120 %		"						
4-Bromofluorobenzene (Surr)		94 %		75-120 %		"						
LCS (2210637-BS1)			Prepared: 09/22/22 14:36 Analyzed: 09/23/22 01:53									
EPA 624.1												
Acrolein	15.7	5.00	5.00	ug/L	1	20.0	---	78	60-140%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 98 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		101 %		85-120 %		"						
4-Bromofluorobenzene (Surr)		85 %		75-120 %		"						
Duplicate (2210637-DUP1)			Prepared: 09/22/22 14:36 Analyzed: 09/23/22 12:16									
QC Source Sample: Non-SDG (A210457-36)												
Acrolein	ND	50.0	50.0	ug/L	10	---	ND	---	---	---	60%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 105 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		106 %		85-120 %		"						
4-Bromofluorobenzene (Surr)		94 %		75-120 %		"						
Matrix Spike (2210637-MS1)			Prepared: 09/22/22 14:36 Analyzed: 09/23/22 10:01									
QC Source Sample: Non-SDG (A210457-22)												
EPA 624.1												
Acrolein	12.7	5.00	5.00	ug/L	1	20.0	ND	64	40-160%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 98 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		100 %		85-120 %		"						
4-Bromofluorobenzene (Surr)		86 %		75-120 %		"						
Matrix Spike Dup (2210637-MSD1)			Prepared: 09/22/22 14:36 Analyzed: 09/23/22 10:28									
QC Source Sample: Non-SDG (A210457-22)												
Acrolein	12.7	5.00	5.00	ug/L	1	20.0	ND	64	40-160%	0.08	60%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 98 %		Limits: 80-120 %		Dilution: 1x						

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Stimson Lumber Co.
PO Box 68
Forest Grove, OR 97204

Project: CAO
Project Number: [none]
Project Manager: **Brian Bartlett**

Report ID:
A210707 - 10 06 22 1349

QUALITY CONTROL (QC) SAMPLE RESULTS

Purgeable Organic Compounds by EPA 624.1

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2210637 - EPA 5030C						Water						
Matrix Spike Dup (2210637-MSD1)			Prepared: 09/22/22 14:36 Analyzed: 09/23/22 10:28									
QC Source Sample: Non-SDG (A210457-22)												
Surr: Toluene-d8 (Surr)		Recovery: 100 %		Limits: 85-120 %		Dilution: 1x						
4-Bromofluorobenzene (Surr)		87 %		75-120 %		"						

Apex Laboratories

Darrell Auvil, Client Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Stimson Lumber Co.

PO Box 68

Forest Grove, OR 97204

Project: CAO

Project Number: [none]

Project Manager: Brian Bartlett

Report ID:

A210707 - 10 06 22 1349

QUALITY CONTROL (QC) SAMPLE RESULTS

Purgeable Organic Compounds by EPA 624.1

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2210716 - EPA 5030C						Water						
Blank (2210716-BLK1)			Prepared: 09/22/22 16:37 Analyzed: 09/23/22 00:14									
<u>EPA 624.1</u>												
Acrolein	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 94 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		106 %		85-120 %		"						
4-Bromofluorobenzene (Surr)		98 %		75-120 %		"						
LCS (2210716-BS1)			Prepared: 09/22/22 16:37 Analyzed: 09/22/22 23:30									
<u>EPA 624.1</u>												
Acrolein	16.2	5.00	5.00	ug/L	1	20.0	---	81	60-140%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 93 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		103 %		85-120 %		"						
4-Bromofluorobenzene (Surr)		89 %		75-120 %		"						
Duplicate (2210716-DUP1)			Prepared: 09/22/22 16:37 Analyzed: 09/23/22 01:22									
<u>QC Source Sample: Non-SDG (A210445-07)</u>												
Acrolein	ND	5.00	5.00	ug/L	1	---	ND	---	---	---	60%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 95 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		107 %		85-120 %		"						
4-Bromofluorobenzene (Surr)		97 %		75-120 %		"						
Matrix Spike (2210716-MS1)			Prepared: 09/22/22 16:37 Analyzed: 09/23/22 05:48									TEMP
<u>QC Source Sample: Non-SDG (A210493-13)</u>												
<u>EPA 624.1</u>												
Acrolein	13.4	5.00	5.00	ug/L	1	20.0	ND	67	40-160%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 92 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		101 %		85-120 %		"						
4-Bromofluorobenzene (Surr)		92 %		75-120 %		"						

Apex Laboratories

Darrell Auvil, Client Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

**ANALYTICAL REPORT****Apex Laboratories, LLC**

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Stimson Lumber Co.

PO Box 68

Forest Grove, OR 97204

Project: **CAO**

Project Number: [none]

Project Manager: **Brian Bartlett****Report ID:****A2I0707 - 10 06 22 1349****SAMPLE PREPARATION INFORMATION****Purgeable Organic Compounds by EPA 624.1**Prep: EPA 5030C

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 22I0637</u>							
A2I0707-01	Water	EPA 624.1	09/20/22 10:15	09/22/22 14:36	5mL/5mL	5mL/5mL	1.00
A2I0707-04	Water	EPA 624.1	09/20/22 10:34	09/22/22 14:36	5mL/5mL	5mL/5mL	1.00
<u>Batch: 22I0716</u>							
A2I0707-02	Water	EPA 624.1	09/20/22 09:57	09/22/22 16:37	5mL/5mL	5mL/5mL	1.00
A2I0707-03	Water	EPA 624.1	09/20/22 09:52	09/22/22 16:37	5mL/5mL	5mL/5mL	1.00
A2I0707-05	Water	EPA 624.1	09/20/22 10:09	09/22/22 16:37	5mL/5mL	5mL/5mL	1.00

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Stimson Lumber Co.

PO Box 68

Forest Grove, OR 97204

Project: CAO

Project Number: [none]

Project Manager: Brian Bartlett

Report ID:

A210707 - 10 06 22 1349

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

- TEMP** Sample was received outside of recommended temperature. See Case Narrative.
- V-01** Sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
- V-13** Reporting levels raised due to dilution necessary for analysis due to sample foaming in sparge vessel.

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Stimson Lumber Co.
PO Box 68
Forest Grove, OR 97204

Project: **CAO**
Project Number: [none]
Project Manager: **Brian Bartlett**

Report ID:
A210707 - 10 06 22 1349

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET Analyte DETECTED at or above the detection or reporting limit.
ND Analyte NOT DETECTED at or above the detection or reporting limit.
NR Result Not Reported
RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.

"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.
"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.
" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).
-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Stimson Lumber Co.
PO Box 68
Forest Grove, OR 97204

Project: **CAO**
Project Number: [none]
Project Manager: **Brian Bartlett**

Report ID:
A210707 - 10 06 22 1349

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Stimson Lumber Co.
PO Box 68
Forest Grove, OR 97204

Project: **CAO**
Project Number: [none]
Project Manager: **Brian Bartlett**

Report ID:
A210707 - 10 06 22 1349

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) -

EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
<u>All reported analytes are included in Apex Laboratories' current ORELAP scope.</u>					

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.
Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Stimson Lumber Co.

PO Box 68

Forest Grove, OR 97204

Project: CAO

Project Number: [none]

Project Manager: Brian Bartlett

Report ID:

A210707 - 10 06 22 1349

APEX LABS COOLER RECEIPT FORM

Client: Stimson Lumber Element WO#: A2 10707Project/Project #: CAO

Delivery Info:

Date/time received: 9/24/22 @ 1300 By: AKKDelivered by: Apex ___ Client ___ ESS ___ FedEx ___ UPS X Swift ___ Senvoy ___ SDS ___ Other ___Cooler Inspection Date/time inspected: 9/22/22 @ 1300 By: AKKChain of Custody included? Yes X No ___ Custody seals? Yes ___ No XSigned/dated by client? Yes X No ___Signed/dated by Apex? Yes X No ___ Tracking #: 179830550364721407

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>15.3</u>						
Received on ice? (Y/N)	<u>Y</u>						
Temp. blanks? (Y/N)	<u>Y</u>						
Ice type: (Gel/Real/Other)	<u>Gel</u>						
Condition:	<u>out</u>						

Cooler out of temp? (Y/N) Possible reason why: melted iceGreen dots applied to out of temperature samples? Yes/NoOut of temperature samples form initiated? Yes/NoSample Inspection: Date/time inspected: 9-22-22 @ 1430 By: DSSAll samples intact? Yes X No ___ Comments: _____Bottle labels/COCs agree? Yes X No ___ Comments: _____COC/container discrepancies form initiated? Yes ___ No XContainers/volumes received appropriate for analysis? Yes Y No ___ Comments: _____Do VOA vials have visible headspace? Yes X No ___ NA ___Comments All vials have HSWater samples: pH checked: Yes ___ No ___ NA X pH appropriate? Yes ___ No ___ NA X

Comments: _____

Additional information: _____

Labeled by: _____ Witness: _____ Cooler Inspected by: _____

DSSWAKK

Form Y-003 R-00 -

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager

Page 14 of 14