

# Specialty Analytical

9011 SE Jannsen Rd  
Clackamas, OR 97015  
TEL: (503) 607-1331

Website: [www.specialtyanalytical.com](http://www.specialtyanalytical.com)

August 27, 2024

Carter Marr  
Weyerhaeuser  
3401 Industrial Way  
Longview, WA 98632  
TEL: (541) 409-7770  
FAX:

RE: Priority Pollutants/ Outfall 001B

Order No.: 2407267

Dear Carter Marr:

There were no problems with the analysis and all data for associated QC met EPA or laboratory specifications, except where noted in the Case Narrative, or as qualified with flags. Results apply only to the samples analyzed. Without approval of the laboratory, the reproduction of this report is only permitted in its entirety.

If you have any questions regarding these tests, please feel free to call.

Sincerely,

A handwritten signature in black ink, appearing to read "Marty French".

Marty French  
Lab Director

# Specialty Analytical

WO#: 2407267

Date Reported: 8/27/2024

CLIENT: Weyerhaeuser  
Project: Priority Pollutants/ Outfall 001B

Lab ID: 2407267-001

Matrix: WASTE WATER

Client Sample ID Outfall 001B

Collection Date: 7/30/2024 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>HEXAVALENT CHROMIUM</b>				<b>218.6</b>		Analyst: <b>MB</b>
Chromium, Hexavalent	3.21	0.500		µg/L	1	8/2/2024 4:08:39 PM
<b>PP13 METALS BY 200.8</b>				<b>E200.8</b>	<b>E200.8</b>	Analyst: <b>AC</b>
<b>ICP/MS METALS- TOTAL RECOVERABLE</b>						
Antimony	1.07	0.500		µg/L	1	8/6/2024 1:02:14 PM
Arsenic	1.97	0.100		µg/L	1	8/6/2024 1:02:14 PM
Beryllium	ND	0.100		µg/L	1	8/6/2024 1:02:14 PM
Cadmium	0.968	0.100		µg/L	1	8/6/2024 1:02:14 PM
Chromium	4.45	0.100		µg/L	1	8/6/2024 1:02:14 PM
Copper	51.1	0.500		µg/L	1	8/6/2024 1:02:14 PM
Lead	5.17	1.00		µg/L	10	8/7/2024 2:39:16 PM
Nickel	13.0	0.500		µg/L	1	8/6/2024 1:02:14 PM
Selenium	ND	1.00		µg/L	1	8/6/2024 1:02:14 PM
Silver	ND	0.100		µg/L	1	8/6/2024 1:02:14 PM
Thallium	ND	5.00		µg/L	10	8/7/2024 2:39:16 PM
Zinc	1690	20.0		µg/L	10	8/7/2024 2:39:16 PM
<b>PURGEABLE ORGANIC COMPOUNDS</b>				<b>E624.1</b>	<b>SW 5030B</b>	Analyst: <b>LB</b>
1,1,1-Trichloroethane	ND	2.00		µg/L	4	7/31/2024 2:43:00 PM
1,1,2,2-Tetrachloroethane	ND	2.00		µg/L	4	7/31/2024 2:43:00 PM
1,1,2-Trichloroethane	ND	2.00		µg/L	4	7/31/2024 2:43:00 PM
1,1-Dichloroethane	ND	2.00		µg/L	4	7/31/2024 2:43:00 PM
1,1-Dichloroethene	ND	2.00		µg/L	4	7/31/2024 2:43:00 PM
1,2-Dichlorobenzene	ND	2.00		µg/L	4	7/31/2024 2:43:00 PM
1,2-Dichloroethane	ND	2.00		µg/L	4	7/31/2024 2:43:00 PM
1,2-Dichloropropane	ND	2.00		µg/L	4	7/31/2024 2:43:00 PM
1,3-Dichlorobenzene	ND	2.00		µg/L	4	7/31/2024 2:43:00 PM
1,4-Dichlorobenzene	ND	2.00		µg/L	4	7/31/2024 2:43:00 PM
2-Chloroethyl vinyl ether	ND	40.0		µg/L	4	7/31/2024 2:43:00 PM
Acrolein	ND	40.0		µg/L	4	7/31/2024 2:43:00 PM
Acrylonitrile	ND	8.00		µg/L	4	7/31/2024 2:43:00 PM
Benzene	ND	2.00		µg/L	4	7/31/2024 2:43:00 PM
Bromodichloromethane	ND	2.00		µg/L	4	7/31/2024 2:43:00 PM
Bromoform	ND	2.00		µg/L	4	7/31/2024 2:43:00 PM
Bromomethane	ND	2.00		µg/L	4	7/31/2024 2:43:00 PM
Carbon tetrachloride	ND	2.00		µg/L	4	7/31/2024 2:43:00 PM
Chlorobenzene	ND	2.00		µg/L	4	7/31/2024 2:43:00 PM
Chloroethane	ND	2.00		µg/L	4	7/31/2024 2:43:00 PM

# Specialty Analytical

WO#: 2407267

Date Reported: 8/27/2024

CLIENT: Weyerhaeuser  
Project: Priority Pollutants/ Outfall 001B

## PURGEABLE ORGANIC COMPOUNDS

			E624.1	SW 5030B	Analyst: LB
Chloroform	3.20	2.00	µg/L	4	7/31/2024 2:43:00 PM
Chloromethane	ND	2.00	µg/L	4	7/31/2024 2:43:00 PM
cis-1,3-Dichloropropene	ND	2.00	µg/L	4	7/31/2024 2:43:00 PM
Dibromochloromethane	ND	2.00	µg/L	4	7/31/2024 2:43:00 PM
Ethylbenzene	ND	2.00	µg/L	4	7/31/2024 2:43:00 PM
Methylene chloride	ND	80.0	µg/L	4	7/31/2024 2:43:00 PM
Tetrachloroethene	ND	2.00	µg/L	4	7/31/2024 2:43:00 PM
Toluene	30.4	2.00	µg/L	4	7/31/2024 2:43:00 PM
trans-1,2-Dichloroethene	ND	2.00	µg/L	4	7/31/2024 2:43:00 PM
trans-1,3-Dichloropropene	ND	2.00	µg/L	4	7/31/2024 2:43:00 PM
Trichloroethene	ND	2.00	µg/L	4	7/31/2024 2:43:00 PM
Vinyl chloride	ND	2.00	µg/L	4	7/31/2024 2:43:00 PM
Surr: 1,2-Dichloroethane-d4	105	83.4 - 126	%Rec	4	7/31/2024 2:43:00 PM
Surr: 4-Bromofluorobenzene	102	80.9 - 127	%Rec	4	7/31/2024 2:43:00 PM
Surr: Dibromofluoromethane	104	81.1 - 122	%Rec	4	7/31/2024 2:43:00 PM
Surr: Toluene-d8	94.8	80 - 120	%Rec	4	7/31/2024 2:43:00 PM

## CYANIDE, AVAILABLE

			OIA-1677	OIA-1677	Analyst: NK
Cyanide, Available	ND	0.00500	mg/L	1	8/7/2024 11:13:53 AM

## CYANIDE, TOTAL

			D7284	D7284	Analyst: NK
Cyanide	ND	0.00500	mg/L	1	8/6/2024 2:20:54 PM

## CYANIDE, WEAK ACID DISSOCIABLE

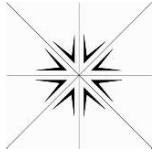
			D2036	D2036	Analyst: NK
Cyanide, WAD	ND	0.005	mg/L	1	8/6/2024 3:30:00 PM

## PHENOLICS

			E420.1		Analyst: NK
Phenolics, Total Recoverable	0.0934	0.0500	mg/L	1	8/1/2024 2:35:22 PM

## FIELD PARAMETERS

			FLD		Analyst:
pH, SM4500H+ B	6.37		S.U.		
Temperature, SM 2550B	19.0		deg C		



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## Accreditation Program Analytes Report

WO#: 2407267  
27-Aug-24

**Client:** Weyerhaeuser  
**Project:** Priority Pollutants/ Outfall 001B

Program Name	Sample ID	ClientSampleID	Matrix	Test Name	Analyte	Status
ORELAP	2407267-001A	Outfall 001B	Groundwater	CYANIDE, AVAILABLE	Cyanide, Available	A
			Waste Water	CYANIDE, TOTAL	Cyanide	A
	2407267-001C		Aqueous	PURGEABLE ORGANIC COMPOUNDS	Tetrachloroethene	A
					Chlorobenzene	A
					Chloroform	A
					Chloromethane	A
					cis-1,3-Dichloropropene	A
					Bromoform	A
					Methylene chloride	A
					Bromodichloromethane	A
					Toluene	A
					trans-1,2-Dichloroethene	A
					trans-1,3-Dichloropropene	A
					Trichloroethene	A
					Vinyl chloride	A
					Ethylbenzene	A
					1,2-Dichloropropane	A
					1,1,1-Trichloroethane	A
					1,1,2,2-Tetrachloroethane	A
					1,1,2-Trichloroethane	A
					1,1-Dichloroethane	A
					1,1-Dichloroethene	A
					Bromomethane	
					1,2-Dichloroethane	A
					Chloroethane	A
					1,3-Dichlorobenzene	A
					1,4-Dichlorobenzene	A
					2-Chloroethyl vinyl ether	A
					Acrolein	A
					Acrylonitrile	A
					Benzene	A

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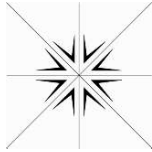
**Client:** Weyerhaeuser  
**Project:** Priority Pollutants/ Outfall 001B

Program Name	Sample ID	ClientSampleID	Matrix	Test Name	Analyte	Status
ORELAP	2407267-001C	Outfall 001B	Aqueous	PURGEABLE ORGANIC COMPOUNDS	1,2-Dichlorobenzene	A
					Carbon tetrachloride	A
	2407267-001D		Waste Water	ICP/MS METALS- TOTAL RECOVERABLE	Silver	A
			Aqueous		Nickel	A
			Waste Water		Nickel	A
			Wastewater		Nickel	A
			Water		Nickel	A
			Aqueous		Selenium	A
			Waste Water		Selenium	A
			Aqueous		Antimony	A
			Wastewater		Selenium	A
					Lead	A
			Aqueous		Silver	A
			Waste Water		Lead	A
			Wastewater		Silver	A
			Water		Silver	A
			Aqueous		Thallium	A
			Waste Water		Thallium	A
			Wastewater		Thallium	A
			Water		Thallium	A
			Aqueous		Zinc	A
			Waste Water		Zinc	A
			Wastewater		Zinc	A
			Water		Zinc	A
					Selenium	A
					Cadmium	A
			Waste Water		Antimony	A
			Wastewater		Antimony	A
			Water		Antimony	A
			Aqueous		Arsenic	A
			Waste Water		Arsenic	A

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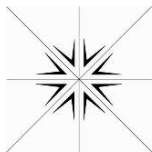
**Client:** Weyerhaeuser  
**Project:** Priority Pollutants/ Outfall 001B

Program Name	Sample ID	ClientSampleID	Matrix	Test Name	Analyte	Status
ORELAP	2407267-001D	Outfall 001B	Wastewater	ICP/MS METALS- TOTAL RECOVERABLE	Arsenic	A
			Water		Arsenic	A
			Wastewater		Beryllium	A
			Aqueous		Cadmium	A
			Water		Lead	A
			Wastewater		Cadmium	A
			Aqueous		Chromium	A
			Waste Water		Chromium	A
			Wastewater		Chromium	A
			Water		Chromium	A
			Aqueous		Copper	A
			Waste Water		Copper	A
			Wastewater		Copper	A
			Water		Copper	A
			Aqueous		Lead	A
			Waste Water		Cadmium	A
	2407267-001E		Aqueous	HEXAVALENT CHROMIUM	Chromium, Hexavalent	A
Washington Departmen	2407267-001A		Groundwater	CYANIDE, AVAILABLE	Cyanide, Available	A
			Waste Water	CYANIDE, TOTAL	Cyanide	A
	2407267-001B		Aqueous	PHENOLICS	Phenolics, Total Recoverable	A
	2407267-001C			PURGEABLE ORGANIC COMPOUNDS	1,2-Dichloropropane	A
					Carbon tetrachloride	A
					Bromomethane	A
					Bromoform	A
					Bromodichloromethane	A
					Acrylonitrile	A
					1,3-Dichlorobenzene	A
					Benzene	A
					1,2-Dichloroethane-d4	A
					1,2-Dichloroethane	A

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27-Aug-24

**Client:** Weyerhaeuser

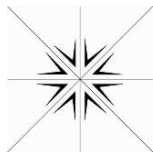
**Project:** Priority Pollutants/ Outfall 001B

Program Name	Sample ID	ClientSampleID	Matrix	Test Name	Analyte	Status
Washington Departmen	2407267-001C	Outfall 001B	Aqueous	PURGEABLE ORGANIC COMPOUNDS	1,2-Dichlorobenzene	A
					1,1-Dichloroethene	A
					1,1,1-Trichloroethane	A
					1,1,2,2-Tetrachloroethane	A
					1,1,2-Trichloroethane	A
					Vinyl chloride	A
					Toluene	A
					Trichloroethene	A
					1,4-Dichlorobenzene	A
					1,1-Dichloroethane	A
					Chlorobenzene	A
					trans-1,3-Dichloropropene	A
					Toluene-d8	A
					Tetrachloroethene	A
					Methylene chloride	A
					Ethylbenzene	A
					Dibromochloromethane	A
					cis-1,3-Dichloropropene	A
					Chloromethane	A
					Chloroform	A
					Chloroethane	A
					trans-1,2-Dichloroethene	A
	2407267-001D			ICP/MS METALS- TOTAL RECOVERABLE	Antimony	A
					Selenium	A
					Zinc	A
					Thallium	A
					Silver	A
					Nickel	A
					Lead	A
					Copper	A
					Chromium	A

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## Accreditation Program Analytes Report

WO#: 2407267

27-Aug-24

**Client:** Weyerhaeuser

**Project:** Priority Pollutants/ Outfall 001B

Program Name	Sample ID	ClientSampleID	Matrix	Test Name	Analyte	Status
Washington Departmen	2407267-001D	Outfall 001B	Aqueous	ICP/MS METALS- TOTAL RECOVERABLE	Cadmium	A
					Arsenic	A
					Beryllium	A
	2407267-001E			HEXAVALENT CHROMIUM	Chromium, Hexavalent	A

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QC SUMMARY REPORT

WO#: 2407267  
8/27/2024

Specialty Analytical

Client: Weyerhaeuser  
Project: Priority Pollutants/ Outfall 001B

TestCode: 200.8

Sample ID: ICV	SampType: ICV	TestCode: 200.8	Units: µg/L	Prep Date:		RunNo: 55092					
Client ID: ICV	Batch ID: 24159	TestNo: E200.8	E200.8	Analysis Date: 8/6/2024		SeqNo: 714106					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	46.7	0.500	50.00	0	93.5	90	110				
Arsenic	45.1	0.100	50.00	0	90.1	90	110				
Beryllium	46.8	0.100	50.00	0	93.6	90	110				
Cadmium	47.5	0.100	50.00	0	95.0	90	110				
Chromium	46.8	0.100	50.00	0	93.6	90	110				
Copper	47.7	0.500	50.00	0	95.4	90	110				
Lead	47.6	0.100	50.00	0	95.1	90	110				
Nickel	47.7	0.500	50.00	0	95.4	90	110				
Selenium	47.5	0.500	50.00	0	95.0	90	110				
Silver	46.6	0.100	50.00	0	93.1	90	110				
Thallium	46.7	0.100	50.00	0	93.3	90	110				
Zinc	48.6	2.00	50.00	0	97.3	90	110				

Sample ID: CCB	SampType: CCB	TestCode: 200.8	Units: µg/L	Prep Date:	RunNo: 55092						
Client ID: CCB	Batch ID: 24159	TestNo: E200.8	E200.8	Analysis Date: 8/6/2024	SeqNo: 714109						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	0.500									
Arsenic	ND	0.100									
Beryllium	ND	0.100									
Cadmium	ND	0.100									

Qualifiers: E Value above quantitation range  
S Spike Recovery outside accepted recovery limits

H Holding times for preparation or analysis exceeded

R RPD outside accepted recovery limits

# QC SUMMARY REPORT

WO#: 2407267  
8/27/2024

## Specialty Analytical

Client: Weyerhaeuser  
Project: Priority Pollutants/ Outfall 001B

TestCode: 200.8

Sample ID: CCB	SampType: CCB	TestCode: 200.8	Units: µg/L	Prep Date:	RunNo: 55092						
Client ID: CCB	Batch ID: 24159	TestNo: E200.8	E200.8	Analysis Date: 8/6/2024	SeqNo: 714109						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	0.100									
Copper	ND	0.500									
Lead	ND	0.100									
Nickel	ND	0.500									
Selenium	ND	0.500									
Silver	ND	0.100									
Thallium	ND	0.100									
Zinc	ND	2.00									

Sample ID: CCV	SampType: CCV	TestCode: 200.8	Units: µg/L	Prep Date:	RunNo: 55092						
Client ID: CCV	Batch ID: 24159	TestNo: E200.8	E200.8	Analysis Date: 8/6/2024	SeqNo: 714113						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	46.2	0.500	50.00	0	92.4	90	110				
Arsenic	45.9	0.100	50.00	0	91.8	90	110				
Beryllium	48.4	0.100	50.00	0	96.7	90	110				
Cadmium	47.3	0.100	50.00	0	94.6	90	110				
Chromium	47.7	0.100	50.00	0	95.4	90	110				
Copper	47.2	0.500	50.00	0	94.5	90	110				
Lead	48.2	0.100	50.00	0	96.5	90	110				
Nickel	47.2	0.500	50.00	0	94.3	90	110				

Qualifiers: E Value above quantitation range  
S Spike Recovery outside accepted recovery limits

H Holding times for preparation or analysis exceeded

R RPD outside accepted recovery limits

QC SUMMARY REPORT

WO#: 2407267  
8/27/2024

Specialty Analytical

Client: Weyerhaeuser  
Project: Priority Pollutants/ Outfall 001B

TestCode: 200.8

Sample ID: CCV	SampType: CCV	TestCode: 200.8	Units: µg/L	Prep Date:	RunNo: 55092						
Client ID: CCV	Batch ID: 24159	TestNo: E200.8	E200.8	Analysis Date: 8/6/2024	SeqNo: 714113						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Selenium	47.7	0.500	50.00	0	95.4	90	110				
Silver	46.8	0.100	50.00	0	93.7	90	110				
Thallium	47.7	0.100	50.00	0	95.5	90	110				
Zinc	47.6	2.00	50.00	0	95.2	90	110				

Sample ID: CCB	SampType: CCB	TestCode: 200.8	Units: µg/L	Prep Date:	RunNo: 55092						
Client ID: CCB	Batch ID: 24159	TestNo: E200.8	E200.8	Analysis Date: 8/6/2024	SeqNo: 714114						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	ND	0.500									
Arsenic	ND	0.100									
Beryllium	ND	0.100									
Cadmium	ND	0.100									
Chromium	ND	0.100									
Copper	ND	0.500									
Lead	ND	0.100									
Nickel	ND	0.500									
Selenium	ND	0.500									
Silver	ND	0.100									
Thallium	ND	0.100									
Zinc	ND	2.00									

Qualifiers: E Value above quantitation range  
S Spike Recovery outside accepted recovery limits

H Holding times for preparation or analysis exceeded

R RPD outside accepted recovery limits

# QC SUMMARY REPORT

WO#: 2407267  
8/27/2024

## Specialty Analytical

Client: Weyerhaeuser  
Project: Priority Pollutants/ Outfall 001B

TestCode: 200.8

Sample ID: CCB	SampType: CCB	TestCode: 200.8	Units: µg/L	Prep Date:	RunNo: 55092						
Client ID: CCB	Batch ID: 24159	TestNo: E200.8	E200.8	Analysis Date: 8/6/2024	SeqNo: 714114						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: MB-24159	SampType: MBLK	TestCode: 200.8	Units: µg/L	Prep Date: 8/5/2024	RunNo: 55092						
Client ID: PBW	Batch ID: 24159	TestNo: E200.8	E200.8	Analysis Date: 8/6/2024	SeqNo: 714117						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony ND  
Arsenic ND  
Beryllium ND  
Cadmium ND  
Chromium ND  
Copper ND  
Nickel ND  
Selenium ND  
Silver ND  
Zinc ND

Sample ID: LCS-24159	SampType: LCS	TestCode: 200.8	Units: µg/L	Prep Date: 8/5/2024	RunNo: 55092						
Client ID: LCSW	Batch ID: 24159	TestNo: E200.8	E200.8	Analysis Date: 8/6/2024	SeqNo: 714118						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: E Value above quantitation range  
S Spike Recovery outside accepted recovery limits

H Holding times for preparation or analysis exceeded

R RPD outside accepted recovery limits



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8/27/2024

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**Client:** Weyerhaeuser  
**Project:** Priority Pollutants/ Outfall 001B

**TestCode:** 200.8

Sample ID: LCS-24159	SampType: LCS	TestCode: 200.8	Units: µg/L	Prep Date: 8/5/2024	RunNo: 55092						
Client ID: LCSW	Batch ID: 24159	TestNo: E200.8	E200.8	Analysis Date: 8/6/2024	SeqNo: 714118						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	46.1	0.500	50.00	0	92.2	85	115				
Arsenic	42.5	0.100	50.00	0	85.0	85	115				
Beryllium	46.1	0.100	50.00	0	92.2	85	115				
Cadmium	46.7	0.100	50.00	0	93.5	85	115				
Chromium	43.3	0.100	50.00	0	86.7	85	115				
Copper	48.2	0.500	50.00	0	96.4	85	115				
Nickel	46.7	0.500	50.00	0	93.5	85	115				
Selenium	45.6	0.500	50.00	0	91.2	85	115				
Silver	44.9	0.100	50.00	0	89.9	85	115				
Zinc	51.5	2.00	50.00	0	103	85	115				

Sample ID: 2407267-001DDUP	SampType: DUP	TestCode: 200.8	Units: µg/L	Prep Date: 8/5/2024	RunNo: 55092						
Client ID: Outfall 001B	Batch ID: 24159	TestNo: E200.8	E200.8	Analysis Date: 8/6/2024	SeqNo: 714120						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	1.07	0.500						1.066	0.0339	20	
Arsenic	2.02	0.100						1.968	2.56	20	
Beryllium	ND	0.100						0	0	20	
Cadmium	0.933	0.100						0.9677	3.62	20	
Chromium	4.35	0.100						4.454	2.44	20	
Copper	50.9	0.500						51.05	0.334	20	

**Qualifiers:** E Value above quantitation range  
S Spike Recovery outside accepted recovery limits

H Holding times for preparation or analysis exceeded

R

RPD outside accepted recovery limits

# QC SUMMARY REPORT

WO#: 2407267  
8/27/2024

## Specialty Analytical

Client: Weyerhaeuser  
Project: Priority Pollutants/ Outfall 001B

TestCode: 200.8

Sample ID: 2407267-001DDUP		SampType: DUP	TestCode: 200.8	Units: µg/L	Prep Date: 8/5/2024	RunNo: 55092					
Client ID: Outfall 001B		Batch ID: 24159	TestNo: E200.8	E200.8	Analysis Date: 8/6/2024	SeqNo: 714120					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nickel	13.1	0.500						13.01	0.511	20	
Selenium	ND	0.500						0	0	20	
Silver	ND	0.100						0	0	20	
Zinc	1180	2.00						1181	0.00608	20	E

Sample ID: 2407267-001DMS		SampType: MS		TestCode: 200.8		Units: µg/L		Prep Date: 8/5/2024		RunNo: 55092	
Client ID: Outfall 001B		Batch ID: 24159		TestNo: E200.8		E200.8		Analysis Date: 8/6/2024		SeqNo: 714121	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	24.5	0.500	50.00	1.066	46.9	70	130				SMI
Arsenic	46.5	0.100	50.00	1.968	89.1	70	130				
Beryllium	41.0	0.100	50.00	0.07883	81.8	70	130				
Cadmium	45.5	0.100	50.00	0.9677	89.2	70	130				
Chromium	49.0	0.100	50.00	4.454	89.1	70	130				
Copper	96.9	0.500	50.00	51.05	91.8	70	130				
Nickel	58.2	0.500	50.00	13.01	90.4	70	130				
Selenium	41.2	0.500	50.00	0.2452	82.0	70	130				
Silver	40.7	0.100	50.00	0.03128	81.4	70	130				
Zinc	1220	2.00	50.00	1181	85.8	70	130				
											E

Qualifiers: E Value above quantitation range  
S Spike Recovery outside accepted recovery limits

H Holding times for preparation or analysis exceeded

R RPD outside accepted recovery limits

# QC SUMMARY REPORT

WO#: 2407267  
8/27/2024

## Specialty Analytical

Client: Weyerhaeuser  
Project: Priority Pollutants/ Outfall 001B

TestCode: 200.8

Sample ID: 2407267-001DMSD		SampType: MSD	TestCode: 200.8		Units: µg/L		Prep Date: 8/5/2024		RunNo: 55092		
Client ID: Outfall 001B		Batch ID: 24159	TestNo: E200.8		E200.8		Analysis Date: 8/6/2024		SeqNo: 714122		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	23.3	0.500	50.00	1.066	44.5	70	130	24.51	5.10	20	SMI
Arsenic	47.2	0.100	50.00	1.968	90.4	70	130	46.49	1.47	20	
Beryllium	40.5	0.100	50.00	0.07883	80.9	70	130	40.96	1.11	20	
Cadmium	45.2	0.100	50.00	0.9677	88.4	70	130	45.55	0.799	20	
Chromium	49.9	0.100	50.00	4.454	90.8	70	130	48.98	1.78	20	
Copper	95.3	0.500	50.00	51.05	88.4	70	130	96.95	1.74	20	
Nickel	56.9	0.500	50.00	13.01	87.7	70	130	58.20	2.31	20	
Selenium	41.3	0.500	50.00	0.2452	82.1	70	130	41.22	0.112	20	
Silver	41.3	0.100	50.00	0.03128	82.4	70	130	40.73	1.28	20	
Zinc	1220	2.00	50.00	1181	71.1	70	130	1224	0.600	20	E

Sample ID: CCV	SampType: CCV	TestCode: 200.8	Units: µg/L	Prep Date:	RunNo: 55092						
Client ID: CCV	Batch ID: 24159	TestNo: E200.8	E200.8	Analysis Date: 8/6/2024	SeqNo: 714127						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	46.3	0.500	50.00	0	92.6	90	110				
Arsenic	46.5	0.100	50.00	0	93.0	90	110				
Beryllium	49.0	0.100	50.00	0	98.0	90	110				
Cadmium	47.2	0.100	50.00	0	94.4	90	110				
Chromium	48.0	0.100	50.00	0	95.9	90	110				
Copper	47.5	0.500	50.00	0	95.0	90	110				

Qualifiers: E Value above quantitation range  
S Spike Recovery outside accepted recovery limits

H Holding times for preparation or analysis exceeded

R RPD outside accepted recovery limits

# QC SUMMARY REPORT

WO#: 2407267  
8/27/2024

## Specialty Analytical

**Client:** Weyerhaeuser  
**Project:** Priority Pollutants/ Outfall 001B

**TestCode:** 200.8

Sample ID: CCV	SampType: CCV	TestCode: 200.8	Units: µg/L	Prep Date:	RunNo: 55092						
Client ID: CCV	Batch ID: 24159	TestNo: E200.8	E200.8	Analysis Date: 8/6/2024	SeqNo: 714127						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	44.9	0.100	50.00	0	89.7	90	110				S
Nickel	47.5	0.500	50.00	0	95.1	90	110				
Selenium	48.1	0.500	50.00	0	96.1	90	110				
Silver	46.6	0.100	50.00	0	93.3	90	110				
Thallium	44.5	0.100	50.00	0	88.9	90	110				S
Zinc	48.0	2.00	50.00	0	95.9	90	110				

Sample ID: CCB	SampType: CCB	TestCode: 200.8	Units: µg/L	Prep Date:	RunNo: 55092						
Client ID: CCB	Batch ID: 24159	TestNo: E200.8	E200.8	Analysis Date: 8/6/2024	SeqNo: 714128						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	0.500									
Arsenic	ND	0.100									
Beryllium	ND	0.100									
Cadmium	ND	0.100									
Chromium	ND	0.100									
Copper	ND	0.500									
Lead	ND	0.100									
Nickel	ND	0.500									
Selenium	ND	0.500									
Silver	ND	0.100									

**Qualifiers:** E Value above quantitation range  
S Spike Recovery outside accepted recovery limits

H Holding times for preparation or analysis exceeded

R RPD outside accepted recovery limits

# QC SUMMARY REPORT

WO#: 2407267  
8/27/2024

## Specialty Analytical

Client: Weyerhaeuser  
Project: Priority Pollutants/ Outfall 001B

TestCode: 200.8

Sample ID: CCB	SampType: CCB	TestCode: 200.8	Units: µg/L	Prep Date:	RunNo: 55092						
Client ID: CCB	Batch ID: 24159	TestNo: E200.8	E200.8	Analysis Date: 8/6/2024	SeqNo: 714128						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Thallium ND 0.100  
Zinc ND 2.00

Sample ID: ICV	SampType: ICV	TestCode: 200.8	Units: µg/L	Prep Date:	RunNo: 55092						
Client ID: ICV	Batch ID: 24159	TestNo: E200.8	E200.8	Analysis Date: 8/7/2024	SeqNo: 714472						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony 50.3 0.500 50.00 0 101 90 110  
Lead 52.0 0.100 50.00 0 104 90 110  
Nickel 51.4 0.500 50.00 0 103 90 110  
Silver 55.1 0.100 50.00 0 110 90 110 S  
Thallium 51.4 0.100 50.00 0 103 90 110  
Zinc 51.6 2.00 50.00 0 103 90 110

Sample ID: CCB	SampType: CCB	TestCode: 200.8	Units: µg/L	Prep Date:	RunNo: 55092						
Client ID: CCB	Batch ID: 24159	TestNo: E200.8	E200.8	Analysis Date: 8/7/2024	SeqNo: 714475						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony ND 0.500  
Lead ND 0.100

Qualifiers: E Value above quantitation range  
S Spike Recovery outside accepted recovery limits

H Holding times for preparation or analysis exceeded

R RPD outside accepted recovery limits

# QC SUMMARY REPORT

WO#: 2407267  
8/27/2024

## Specialty Analytical

Client: Weyerhaeuser  
Project: Priority Pollutants/ Outfall 001B

TestCode: 200.8

Sample ID: CCB	SampType: CCB	TestCode: 200.8	Units: µg/L	Prep Date:	RunNo: 55092						
Client ID: CCB	Batch ID: 24159	TestNo: E200.8	E200.8	Analysis Date: 8/7/2024	SeqNo: 714475						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nickel	ND	0.500									
Silver	ND	0.100									
Thallium	ND	0.100									
Zinc	ND	2.00									

Sample ID: CCV	SampType: CCV	TestCode: 200.8	Units: µg/L	Prep Date:	RunNo: 55092						
Client ID: CCV	Batch ID: 24159	TestNo: E200.8	E200.8	Analysis Date: 8/7/2024	SeqNo: 714479						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	49.0	0.500	50.00	0	98.0	90	110				
Lead	53.0	0.100	50.00	0	106	90	110				
Nickel	50.8	0.500	50.00	0	102	90	110				
Silver	51.7	0.100	50.00	0	103	90	110				
Thallium	52.6	0.100	50.00	0	105	90	110				
Zinc	51.4	2.00	50.00	0	103	90	110				

Sample ID: CCB	SampType: CCB	TestCode: 200.8	Units: µg/L	Prep Date:	RunNo: 55092						
Client ID: CCB	Batch ID: 24159	TestNo: E200.8	E200.8	Analysis Date: 8/7/2024	SeqNo: 714480						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: E Value above quantitation range  
S Spike Recovery outside accepted recovery limits

H Holding times for preparation or analysis exceeded

R RPD outside accepted recovery limits

# QC SUMMARY REPORT

WO#: 2407267  
8/27/2024

## Specialty Analytical

Client: Weyerhaeuser  
Project: Priority Pollutants/ Outfall 001B

TestCode: 200.8

Sample ID: CCB	SampType: CCB	TestCode: 200.8	Units: µg/L	Prep Date:	RunNo: 55092						
Client ID: CCB	Batch ID: 24159	TestNo: E200.8	E200.8	Analysis Date: 8/7/2024	SeqNo: 714480						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	0.500									
Lead	ND	0.100									
Nickel	ND	0.500									
Silver	ND	0.100									
Thallium	ND	0.100									
Zinc	ND	2.00									

Sample ID: MB-24159	SampType: MBLK	TestCode: 200.8	Units: µg/L	Prep Date: 8/5/2024	RunNo: 55092						
Client ID: PBW	Batch ID: 24159	TestNo: E200.8	E200.8	Analysis Date: 8/7/2024	SeqNo: 714483						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.100									
Thallium	ND	0.100									

Sample ID: LCS-24159	SampType: LCS	TestCode: 200.8	Units: µg/L	Prep Date: 8/5/2024	RunNo: 55092						
Client ID: LCSW	Batch ID: 24159	TestNo: E200.8	E200.8	Analysis Date: 8/7/2024	SeqNo: 714484						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	56.1	0.100	50.00	0	112	85	115				
Thallium	55.0	0.100	50.00	0	110	85	115				

Qualifiers: E Value above quantitation range  
S Spike Recovery outside accepted recovery limits

H Holding times for preparation or analysis exceeded

R

RPD outside accepted recovery limits

# QC SUMMARY REPORT

WO#: 2407267  
8/27/2024

## Specialty Analytical

Client: Weyerhaeuser  
Project: Priority Pollutants/ Outfall 001B

TestCode: 200.8

Sample ID: LCS-24159	SampType: LCS	TestCode: 200.8	Units: µg/L	Prep Date: 8/5/2024	RunNo: 55092						
Client ID: LCSW	Batch ID: 24159	TestNo: E200.8	E200.8	Analysis Date: 8/7/2024	SeqNo: 714484						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: 2407267-001DDUP	SampType: DUP	TestCode: 200.8	Units: µg/L	Prep Date: 8/5/2024	RunNo: 55092						
Client ID: Outfall 001B	Batch ID: 24159	TestNo: E200.8	E200.8	Analysis Date: 8/7/2024	SeqNo: 714486						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	5.31	1.00						5.169	2.62	20	
Thallium	ND	1.00						0	0	20	RRF
Zinc	1780	20.0						1690	5.31	20	

Sample ID: 2407267-001DMS		SampType: MS	TestCode: 200.8	Units: µg/L	Prep Date: 8/5/2024	RunNo: 55092					
Client ID: Outfall 001B		Batch ID: 24159	TestNo: E200.8	E200.8	Analysis Date: 8/7/2024	SeqNo: 714487					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	56.9	1.00	50.00	5.169	103	70	130				
Thallium	44.8	1.00	50.00	0	89.7	70	130				
Zinc	1930	20.0	50.00	1690	469	70	130				SMC

Qualifiers: E Value above quantitation range  
S Spike Recovery outside accepted recovery limits

H Holding times for preparation or analysis exceeded

R

RPD outside accepted recovery limits



# QC SUMMARY REPORT

WO#: 2407267  
8/27/2024

## Specialty Analytical

**Client:** Weyerhaeuser  
**Project:** Priority Pollutants/ Outfall 001B

**TestCode:** 200.8

Sample ID: 2407267-001DMSD		SampType: MSD		TestCode: 200.8		Units: µg/L		Prep Date: 8/5/2024		RunNo: 55092			
Client ID: Outfall 001B		Batch ID: 24159		TestNo: E200.8		E200.8		Analysis Date: 8/7/2024		SeqNo: 714488			
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		56.6		1.00	50.00	5.169	103	70	130	56.91	0.566	20	
Thallium		46.1		1.00	50.00	0	92.2	70	130	44.84	2.79	20	
Zinc		1880		20.0	50.00	1690	384	70	130	1925	2.25	20	SMC

Sample ID: CCV	SampType: CCV	TestCode: 200.8	Units: µg/L	Prep Date:	RunNo: 55092						
Client ID: CCV	Batch ID: 24159	TestNo: E200.8	E200.8	Analysis Date: 8/7/2024	SeqNo: 714493						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	48.5	0.500	50.00	0	97.0	90	110				
Lead	52.5	0.100	50.00	0	105	90	110				
Nickel	50.2	0.500	50.00	0	100	90	110				
Silver	51.0	0.100	50.00	0	102	90	110				
Thallium	52.3	0.100	50.00	0	105	90	110				
Zinc	50.8	2.00	50.00	0	102	90	110				

Sample ID: CCB	SampType: CCB	TestCode: 200.8	Units: µg/L	Prep Date:	RunNo: 55092						
Client ID: CCB	Batch ID: 24159	TestNo: E200.8	E200.8	Analysis Date: 8/7/2024	SeqNo: 714494						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	0.500									

**Qualifiers:** E Value above quantitation range  
S Spike Recovery outside accepted recovery limits  
H Holding times for preparation or analysis exceeded  
R RPD outside accepted recovery limits

# QC SUMMARY REPORT

WO#: 2407267  
8/27/2024

## Specialty Analytical

Client: Weyerhaeuser  
Project: Priority Pollutants/ Outfall 001B

TestCode: 200.8

Sample ID: CCB	SampType: CCB	TestCode: 200.8	Units: µg/L	Prep Date:	RunNo: 55092						
Client ID: CCB	Batch ID: 24159	TestNo: E200.8	E200.8	Analysis Date: 8/7/2024	SeqNo: 714494						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	ND	0.100									
Nickel	ND	0.500									
Silver	ND	0.100									
Thallium	ND	0.100									
Zinc	ND	2.00									

Sample ID: CCV	SampType: CCV	TestCode: 200.8	Units: µg/L	Prep Date:	RunNo: 55092						
Client ID: CCV	Batch ID: 24159	TestNo: E200.8	E200.8	Analysis Date: 8/7/2024	SeqNo: 714497						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	49.1	0.500	50.00	0	98.3	90	110				
Lead	49.3	0.100	50.00	0	98.6	90	110				
Nickel	51.4	0.500	50.00	0	103	90	110				
Silver	53.5	0.100	50.00	0	107	90	110				
Thallium	49.6	0.100	50.00	0	99.3	90	110				
Zinc	51.2	2.00	50.00	0	102	90	110				

Qualifiers: E Value above quantitation range  
S Spike Recovery outside accepted recovery limits

H Holding times for preparation or analysis exceeded

R

RPD outside accepted recovery limits

# QC SUMMARY REPORT

WO#: 2407267  
8/27/2024

## Specialty Analytical

**Client:** Weyerhaeuser  
**Project:** Priority Pollutants/ Outfall 001B

**TestCode:** 200.8

Sample ID: CCB	SampType: CCB	TestCode: 200.8	Units: µg/L	Prep Date:	RunNo: 55092						
Client ID: CCB	Batch ID: 24159	TestNo: E200.8	E200.8	Analysis Date: 8/7/2024	SeqNo: 714498						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	0.500									
Lead	ND	0.100									
Nickel	ND	0.500									
Silver	ND	0.100									
Thallium	ND	0.100									
Zinc	ND	2.00									

**Qualifiers:** E Value above quantitation range  
S Spike Recovery outside accepted recovery limits

H Holding times for preparation or analysis exceeded

R RPD outside accepted recovery limits

# QC SUMMARY REPORT

WO#: 2407267  
8/27/2024

## Specialty Analytical

Client: Weyerhaeuser  
Project: Priority Pollutants/ Outfall 001B

TestCode: 624\_W

Sample ID: LCS		SampType: LCS		TestCode: 624_W		Units: µg/L		Prep Date:		RunNo: 55012		
Client ID:	LCSW	Batch ID: 24129		TestNo: E624.1		SW 5030B		Analysis Date: 7/31/2024		SeqNo: 713004		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane		45.4	0.500	40.00	0	114	52	162				
1,1,2,2-Tetrachloroethane		33.6	0.500	40.00	0	84.1	46	157				
1,1,2-Trichloroethane		41.3	0.500	40.00	0	103	52	150				
1,1-Dichloroethane		39.8	0.500	40.00	0	99.4	59	155				
1,1-Dichloroethene		38.4	0.500	40.00	0	95.9	0.01	234				
1,2-Dichlorobenzene		39.1	0.500	40.00	0	97.9	18	190				
1,2-Dichloroethane		42.6	0.500	40.00	0	107	49	155				
1,2-Dichloropropane		43.6	0.500	40.00	0	109	0.01	210				
1,3-Dichlorobenzene		39.2	0.500	40.00	0	97.9	59	156				
1,4-Dichlorobenzene		37.9	0.500	40.00	0	94.8	18	190				
2-Chloroethyl vinyl ether		62.7	10.0	40.00	0	157	0.01	305				
Acrylonitrile		44.4	2.00	40.00	0	111	30	150				
Benzene		40.6	0.500	40.00	0	101	37	151				
Bromodichloromethane		43.4	0.500	40.00	0	108	35	155				
Bromoform		41.1	0.500	40.00	0	103	45	169				
Bromomethane		43.3	0.500	40.00	0	108	0.01	242				
Carbon tetrachloride		40.1	0.500	40.00	0	100	70	140				
Chlorobenzene		40.9	0.500	40.00	0	102	37	160				
Chloroethane		41.8	0.500	40.00	0	104	14	230				
Chloroform		44.1	0.500	40.00	0	110	51	138				
Chloromethane		46.8	0.500	40.00	0	117	0.01	273				
cis-1,3-Dichloropropene		42.5	0.500	40.00	0	106	0.01	227				
Dibromochloromethane		37.9	0.500	40.00	0	94.6	53	149				

**Qualifiers:** E Value above quantitation range  
S Spike Recovery outside accepted recovery limits  
H Holding times for preparation or analysis exceeded  
R RPD outside accepted recovery limits

# QC SUMMARY REPORT

WO#: 2407267  
8/27/2024

## Specialty Analytical

Client: Weyerhaeuser  
Project: Priority Pollutants/ Outfall 001B

TestCode: 624\_W

Sample ID: LCS	SampType: LCS	TestCode: 624_W	Units: µg/L	Prep Date:	RunNo: 55012						
Client ID: LCSW	Batch ID: 24129	TestNo: E624.1	SW 5030B	Analysis Date: 7/31/2024	SeqNo: 713004						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ethylbenzene	39.1	0.500	40.00	0	97.7	37	162			
Methylene chloride	40.7	20.0	40.00	0	102	0.01	221			
Tetrachloroethene	35.1	0.500	40.00	0	87.7	64	148			
Toluene	39.8	0.500	40.00	0	99.5	47	150			
trans-1,2-Dichloroethene	40.3	0.500	40.00	0	101	54	156			
trans-1,3-Dichloropropene	39.4	0.500	40.00	0	98.6	17	183			
Trichloroethene	44.7	0.500	40.00	0	112	71	157			
Vinyl chloride	42.4	0.500	40.00	0	106	0.01	251			

Sample ID: CCV	SampType: CCV	TestCode: 624_W	Units: µg/L	Prep Date:	RunNo: 55012						
Client ID: CCV	Batch ID: 24129	TestNo: E624.1	SW 5030B	Analysis Date: 7/31/2024	SeqNo: 713005						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1-Trichloroethane	45.4	0.500	40.00	0	114	75	125			
1,1,2,2-Tetrachloroethane	33.6	0.500	40.00	0	84.1	60.5	139.5			
1,1,2-Trichloroethane	41.3	0.500	40.00	0	103	71	129			
1,1-Dichloroethane	39.8	0.500	40.00	0	99.4	72.5	127.5			
1,1-Dichloroethene	38.4	0.500	40.00	0	95.9	50.5	149.5			
1,2-Dichlorobenzene	39.1	0.500	40.00	0	97.9	63	137			
1,2-Dichloroethane	42.6	0.500	40.00	0	107	68	132			
1,2-Dichloropropane	43.6	0.500	40.00	0	109	34	166			

Qualifiers: E Value above quantitation range  
S Spike Recovery outside accepted recovery limits

H Holding times for preparation or analysis exceeded

R

RPD outside accepted recovery limits

# QC SUMMARY REPORT

WO#: 2407267  
8/27/2024

## Specialty Analytical

Client: Weyerhaeuser  
Project: Priority Pollutants/ Outfall 001B

TestCode: 624\_W

Sample ID: CCV	SampType: CCV	TestCode: 624_W	Units: µg/L	Prep Date:			RunNo: 55012				
Client ID: CCV	Batch ID: 24129	TestNo: E624.1	SW 5030B	Analysis Date: 7/31/2024			SeqNo: 713005				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	39.2	0.500	40.00	0	97.9	73	127				
1,4-Dichlorobenzene	37.9	0.500	40.00	0	94.8	63	137				
2-Chloroethyl vinyl ether	62.7	10.0	40.00	0	157	0.01	224				
Acrylonitrile	44.4	2.00	40.00	0	111	50	150				
Benzene	40.6	0.500	40.00	0	101	64	136				
Bromodichloromethane	43.4	0.500	40.00	0	108	65.5	134.5				
Bromoform	41.1	0.500	40.00	0	103	71	129				
Bromomethane	43.3	0.500	40.00	0	108	14	186				
Carbon tetrachloride	40.1	0.500	40.00	0	100	73	127				
Chlorobenzene	40.9	0.500	40.00	0	102	66	134				
Chloroethane	41.8	0.500	40.00	0	104	38	162				
Chloroform	44.1	0.500	40.00	0	110	67.5	132.5				
Chloromethane	46.8	0.500	40.00	0	117	0.01	204				
cis-1,3-Dichloropropene	42.5	0.500	40.00	0	106	24	176				
Dibromochloromethane	37.9	0.500	40.00	0	94.6	67.5	132.5				
Ethylbenzene	39.1	0.500	40.00	0	97.7	59	141				
Methylene chloride	40.7	20.0	40.00	0	102	60.5	139.5				
Tetrachloroethene	35.1	0.500	40.00	0	87.7	73.5	126.5				
Toluene	39.8	0.500	40.00	0	99.5	74.5	125.5				
trans-1,2-Dichloroethene	40.3	0.500	40.00	0	101	69.5	130.5				
trans-1,3-Dichloropropene	39.4	0.500	40.00	0	98.6	50	150				
Trichloroethene	44.7	0.500	40.00	0	112	66.5	133.5				
Vinyl chloride	42.4	0.500	40.00	0	106	4	196				

**Qualifiers:** E Value above quantitation range  
S Spike Recovery outside accepted recovery limits  
H Holding times for preparation or analysis exceeded  
R RPD outside accepted recovery limits

# QC SUMMARY REPORT

WO#: 2407267  
8/27/2024

## Specialty Analytical

Client: Weyerhaeuser  
Project: Priority Pollutants/ Outfall 001B

TestCode: 624\_W

Sample ID: CCV	SampType: CCV	TestCode: 624_W	Units: µg/L	Prep Date:	RunNo: 55012						
Client ID: CCV	Batch ID: 24129	TestNo: E624.1	SW 5030B	Analysis Date: 7/31/2024	SeqNo: 713005						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: <b>MBLK</b>	SampType: <b>MBLK</b>	TestCode: <b>624_W</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>55012</b>						
Client ID: <b>PBW</b>	Batch ID: <b>24129</b>	TestNo: <b>E624.1</b>	<b>SW 5030B</b>	Analysis Date: <b>7/31/2024</b>	SeqNo: <b>713006</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1-Trichloroethane	ND	0.500									
1,1,2,2-Tetrachloroethane	ND	0.500									
1,1,2-Trichloroethane	ND	0.500									
1,1-Dichloroethane	ND	0.500									
1,1-Dichloroethene	ND	0.500									
1,2-Dichlorobenzene	ND	0.500									
1,2-Dichloroethane	ND	0.500									
1,2-Dichloropropane	ND	0.500									
1,3-Dichlorobenzene	ND	0.500									
1,4-Dichlorobenzene	ND	0.500									
2-Chloroethyl vinyl ether	ND	10.0									
Acrylonitrile	ND	2.00									
Benzene	ND	0.500									
Bromodichloromethane	ND	0.500									
Bromoform	ND	0.500									
Bromomethane	ND	0.500									

Qualifiers: E Value above quantitation range  
S Spike Recovery outside accepted recovery limits

H Holding times for preparation or analysis exceeded

R

RPD outside accepted recovery limits

# QC SUMMARY REPORT

WO#: 2407267  
8/27/2024

## Specialty Analytical

**Client:** Weyerhaeuser  
**Project:** Priority Pollutants/ Outfall 001B

**TestCode:** 624\_W

Sample ID: MBLK	SampType: MBLK	TestCode: 624_W	Units: µg/L	Prep Date:	RunNo: 55012						
Client ID: PBW	Batch ID: 24129	TestNo: E624.1	SW 5030B	Analysis Date: 7/31/2024	SeqNo: 713006						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon tetrachloride	ND	0.500									
Chlorobenzene	ND	0.500									
Chloroethane	ND	0.500									
Chloroform	ND	0.500									
Chloromethane	ND	0.500									
cis-1,3-Dichloropropene	ND	0.500									
Dibromochloromethane	ND	0.500									
Ethylbenzene	ND	0.500									
Methylene chloride	ND	20.0									
Tetrachloroethene	ND	0.500									
Toluene	ND	0.500									
trans-1,2-Dichloroethene	ND	0.500									
trans-1,3-Dichloropropene	ND	0.500									
Trichloroethene	ND	0.500									
Vinyl chloride	ND	0.500									
Surr: 1,2-Dichloroethane-d4	105		100.0			105	83.4			126	
Surr: 4-Bromofluorobenzene	104		100.0			104	80.9			127	
Surr: Dibromofluoromethane	101		100.0			101	81.1			122	
Surr: Toluene-d8	98.0		100.0			98.0	80			120	

**Qualifiers:** E Value above quantitation range  
S Spike Recovery outside accepted recovery limits

H Holding times for preparation or analysis exceeded

R RPD outside accepted recovery limits



# QC SUMMARY REPORT

WO#: 2407267  
8/27/2024

## Specialty Analytical

Client: Weyerhaeuser  
Project: Priority Pollutants/ Outfall 001B

TestCode: 624\_W

Sample ID: 2407267-001CMS		SampType: MS		TestCode: 624_W		Units: µg/L		Prep Date:		RunNo: 55012	
Client ID: Outfall 001B		Batch ID: 24129		TestNo: E624.1		SW 5030B		Analysis Date: 7/31/2024		SeqNo: 713007	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	189	2.00	160.0	0	118	52	162				
1,1,2,2-Tetrachloroethane	154	2.00	160.0	0	96.2	46	157				
1,1,2-Trichloroethane	186	2.00	160.0	0	116	52	150				
1,1-Dichloroethane	166	2.00	160.0	0	104	59	155				
1,1-Dichloroethene	156	2.00	160.0	0	97.2	47.8	165				
1,2-Dichlorobenzene	189	2.00	160.0	0	118	18	190				
1,2-Dichloroethane	162	2.00	160.0	0	101	49	155				
1,2-Dichloropropane	166	2.00	160.0	0	104	0.01	210				
1,3-Dichlorobenzene	189	2.00	160.0	0	118	59	156				
1,4-Dichlorobenzene	181	2.00	160.0	0	113	18	190				
2-Chloroethyl vinyl ether	244	40.0	160.0	0	152	0.01	305				
Acrylonitrile	137	8.00	160.0	0	85.9	20	150				
Benzene	159	2.00	160.0	0	99.5	37	151				
Bromodichloromethane	169	2.00	160.0	0	106	35	155				
Bromoform	174	2.00	160.0	0	109	45	169				
Bromomethane	170	2.00	160.0	0	106	0.01	242				
Carbon tetrachloride	168	2.00	160.0	0	105	70	140				
Chlorobenzene	191	2.00	160.0	0	119	37	160				
Chloroethane	176	2.00	160.0	0	110	14	230				
Chloroform	179	2.00	160.0	3,200	110	51	138				
Chloromethane	188	2.00	160.0	0	118	0.01	273				
cis-1,3-Dichloropropene	162	2.00	160.0	0	101	0.01	227				
Dibromochloromethane	168	2.00	160.0	0	105	53	149				

**Qualifiers:** E Value above quantitation range  
S Spike Recovery outside accepted recovery limits  
H Holding times for preparation or analysis exceeded  
R RPD outside accepted recovery limits

# QC SUMMARY REPORT

WO#: 2407267  
8/27/2024

## Specialty Analytical

Client: Weyerhaeuser  
Project: Priority Pollutants/ Outfall 001B

TestCode: 624\_W

Sample ID: 2407267-001CMS	SampType: MS	TestCode: 624_W	Units: µg/L	Prep Date:		RunNo: 55012					
Client ID: Outfall 001B	Batch ID: 24129	TestNo: E624.1	SW 5030B	Analysis Date: 7/31/2024		SeqNo: 713007					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	188	2.00	160.0	0	118	37		162			
Methylene chloride	151	80.0	160.0	0	94.5	0.01		221			
Tetrachloroethene	155	2.00	160.0	0	96.8	64		148			
Toluene	225	2.00	160.0	30.44	122	47		150			
trans-1,2-Dichloroethene	159	2.00	160.0	0	99.1	54		156			
trans-1,3-Dichloropropene	176	2.00	160.0	0	110	17		183			
Trichloroethene	172	2.00	160.0	0	107	71		157			
Vinyl chloride	187	2.00	160.0	0	117	0.01		251			

Qualifiers: E Value above quantitation range  
S Spike Recovery outside accepted recovery limits

H Holding times for preparation or analysis exceeded

R RPD outside accepted recovery limits

# QC SUMMARY REPORT

WO#: 2407267  
8/27/2024

## Specialty Analytical

**Client:** Weyerhaeuser  
**Project:** Priority Pollutants/ Outfall 001B

**TestCode:** CN\_AVAILSP

Sample ID: ICB-R55101	SampType: ICB	TestCode: CN_AVAILSP	Units: mg/L	Prep Date:	RunNo: 55101
Client ID: ICB	Batch ID: 24161	TestNo: OIA-1677	OIA-1677	Analysis Date: 8/7/2024	SeqNo: 714276
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Cyanide, Available	0.0530	0.00500	0.05000	0	106 90 110

Sample ID: ICB-R55101	SampType: ICB	TestCode: CN_AVAILSP	Units: mg/L	Prep Date:	RunNo: 55101
Client ID: ICB	Batch ID: 24161	TestNo: OIA-1677	OIA-1677	Analysis Date: 8/7/2024	SeqNo: 714277
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Cyanide, Available	ND	0.00500			

Sample ID: MB-R55101	SampType: MBLK	TestCode: CN_AVAILSP	Units: mg/L	Prep Date:	RunNo: 55101
Client ID: PBW	Batch ID: 24161	TestNo: OIA-1677	OIA-1677	Analysis Date: 8/7/2024	SeqNo: 714279
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Cyanide, Available	ND	0.00500			

Sample ID: LCS-R55101	SampType: LCS	TestCode: CN_AVAILSP	Units: mg/L	Prep Date:	RunNo: 55101
Client ID: LCSW	Batch ID: 24161	TestNo: OIA-1677	OIA-1677	Analysis Date: 8/7/2024	SeqNo: 714280
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Cyanide, Available	0.100	0.00500	0.1000	0	100 80 120

**Qualifiers:** E Value above quantitation range  
S Spike Recovery outside accepted recovery limits  
H Holding times for preparation or analysis exceeded  
R RPD outside accepted recovery limits

# QC SUMMARY REPORT

WO#: 2407267  
8/27/2024

## Specialty Analytical

**Client:** Weyerhaeuser  
**Project:** Priority Pollutants/ Outfall 001B

**TestCode:** CN\_AVAILSP

Sample ID: LCS-R55101	SampType: LCS	TestCode: CN_AVAILSP	Units: mg/L	Prep Date:	RunNo: 55101
Client ID: LCSW	Batch ID: 24161	TestNo: OIA-1677	OIA-1677	Analysis Date: 8/7/2024	SeqNo: 714280
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Sample ID: 2407261-002CMS	SampType: MS	TestCode: CN_AVAILSP	Units: mg/L	Prep Date: 8/7/2024	RunNo: 55101
Client ID: BatchQC	Batch ID: 24161	TestNo: OIA-1677	OIA-1677	Analysis Date: 8/7/2024	SeqNo: 714282
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Cyanide, Available	0.0563	0.00500	0.05000	0	113 67.9 120

Sample ID: 2407261-002CMSD	SampType: MSD	TestCode: CN_AVAILSP	Units: mg/L	Prep Date: 8/7/2024	RunNo: 55101
Client ID: BatchQC	Batch ID: 24161	TestNo: OIA-1677	OIA-1677	Analysis Date: 8/7/2024	SeqNo: 714283
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Cyanide, Available	0.0579	0.00500	0.05000	0	116 67.9 120 0.05632 2.85 20

Sample ID: CCV-R55101	SampType: CCV	TestCode: CN_AVAILSP	Units: mg/L	Prep Date:	RunNo: 55101
Client ID: CCV	Batch ID: 24161	TestNo: OIA-1677	OIA-1677	Analysis Date: 8/7/2024	SeqNo: 714286
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Cyanide, Available	0.103	0.00500	0.1000	0	103 90 110

**Qualifiers:** E Value above quantitation range  
S Spike Recovery outside accepted recovery limits  
H Holding times for preparation or analysis exceeded  
R RPD outside accepted recovery limits

# QC SUMMARY REPORT

WO#: 2407267  
8/27/2024

## Specialty Analytical

Client: Weyerhaeuser  
Project: Priority Pollutants/ Outfall 001B

TestCode: CN\_AVAILSP

Sample ID: CCB-R55101	SampType: CCB	TestCode: CN_AVAILSP	Units: mg/L	Prep Date:	RunNo: 55101						
Client ID: CCB	Batch ID: 24161	TestNo: OIA-1677	OIA-1677	Analysis Date: 8/7/2024	SeqNo: 714287						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide, Available	ND	0.00500									

Qualifiers: E Value above quantitation range  
S Spike Recovery outside accepted recovery limits

H Holding times for preparation or analysis exceeded

R

RPD outside accepted recovery limits

# QC SUMMARY REPORT

WO#: 2407267  
8/27/2024

## Specialty Analytical

Client: Weyerhaeuser  
Project: Priority Pollutants/ Outfall 001B

TestCode: CN\_W

Sample ID: ICB-R55083	SampType: ICB	TestCode: CN_W	Units: mg/L	Prep Date:	RunNo: 55083
Client ID: ICB	Batch ID: 24164	TestNo: D7284	D7284	Analysis Date: 8/6/2024	SeqNo: 713976
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Cyanide	0.0540	0.00500	0.05000	0	108 90 110

Sample ID: ICB-R55083	SampType: ICB	TestCode: CN_W	Units: mg/L	Prep Date:	RunNo: 55083
Client ID: ICB	Batch ID: 24164	TestNo: D7284	D7284	Analysis Date: 8/6/2024	SeqNo: 713977
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Cyanide	ND	0.00500			

Sample ID: MB-R55083	SampType: MBLK	TestCode: CN_W	Units: mg/L	Prep Date:	RunNo: 55083
Client ID: PBW	Batch ID: 24164	TestNo: D7284	D7284	Analysis Date: 8/6/2024	SeqNo: 713979
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Cyanide	ND	0.00500			

Sample ID: LCS-R55083	SampType: LCS	TestCode: CN_W	Units: mg/L	Prep Date:	RunNo: 55083
Client ID: LCSW	Batch ID: 24164	TestNo: D7284	D7284	Analysis Date: 8/6/2024	SeqNo: 713980
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Cyanide	0.0909	0.00500	0.1000	0	90.9 80 120

Qualifiers: E Value above quantitation range  
S Spike Recovery outside accepted recovery limits  
H Holding times for preparation or analysis exceeded  
R RPD outside accepted recovery limits

# QC SUMMARY REPORT

WO#: 2407267  
8/27/2024

## Specialty Analytical

Client: Weyerhaeuser  
Project: Priority Pollutants/ Outfall 001B

TestCode: CN\_W

Sample ID: LCS-R55083	SampType: LCS	TestCode: CN_W	Units: mg/L	Prep Date:	RunNo: 55083
Client ID: LCSW	Batch ID: 24164	TestNo: D7284	D7284	Analysis Date: 8/6/2024	SeqNo: 713980
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Sample ID: 2408010-003BMS	SampType: MS	TestCode: CN_W	Units: mg/L	Prep Date: 8/6/2024	RunNo: 55083
Client ID: BatchQC	Batch ID: 24164	TestNo: D7284	D7284	Analysis Date: 8/6/2024	SeqNo: 713985
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Cyanide	0.0534	0.00500	0.05000	0.004300	98.2 67.9 120

Sample ID: 2408010-003BMSD	SampType: MSD	TestCode: CN_W	Units: mg/L	Prep Date: 8/6/2024	RunNo: 55083
Client ID: BatchQC	Batch ID: 24164	TestNo: D7284	D7284	Analysis Date: 8/6/2024	SeqNo: 713986
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Cyanide	0.0528	0.00500	0.05000	0.004300	97.0 67.9 120 0.05339 1.11 20

Sample ID: CCV2-R55083	SampType: CCV	TestCode: CN_W	Units: mg/L	Prep Date:	RunNo: 55083
Client ID: CCV	Batch ID: 24164	TestNo: D7284	D7284	Analysis Date: 8/6/2024	SeqNo: 713994
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Cyanide	0.109	0.00500	0.1000	0 109 90 110	

**Qualifiers:** E Value above quantitation range  
S Spike Recovery outside accepted recovery limits  
H Holding times for preparation or analysis exceeded  
R RPD outside accepted recovery limits

QC SUMMARY REPORT

WO#: 2407267  
8/27/2024

Specialty Analytical

Client: Weyerhaeuser  
Project: Priority Pollutants/ Outfall 001B

TestCode: CN\_W

Sample ID: CCB2-R55083	SampType: CCB	TestCode: CN_W	Units: mg/L	Prep Date:	RunNo: 55083						
Client ID: CCB	Batch ID: 24164	TestNo: D7284	D7284	Analysis Date: 8/6/2024	SeqNo: 713995						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	ND		0.00500								

Qualifiers: E Value above quantitation range  
S Spike Recovery outside accepted recovery limits

H Holding times for preparation or analysis exceeded

R RPD outside accepted recovery limits



# QC SUMMARY REPORT

WO#: 2407267  
8/27/2024

## Specialty Analytical

**Client:** Weyerhaeuser  
**Project:** Priority Pollutants/ Outfall 001B

**TestCode:** CN\_WAD

Sample ID: CCV1-R55085	SampType: CCV	TestCode: CN_WAD	Units: mg/L	Prep Date:	RunNo: 55085
Client ID: CCV	Batch ID: 24167	TestNo: D2036	D2036	Analysis Date: 8/6/2024	SeqNo: 714012
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Cyanide, WAD	0.106	0.005	0.100	0	106 90 110

Sample ID: CCB1-R55085	SampType: CCB	TestCode: CN_WAD	Units: mg/L	Prep Date:	RunNo: 55085
Client ID: CCB	Batch ID: 24167	TestNo: D2036	D2036	Analysis Date: 8/6/2024	SeqNo: 714013
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Cyanide, WAD	ND	0.005			

Sample ID: MB-R55085	SampType: MBLK	TestCode: CN_WAD	Units: mg/L	Prep Date:	RunNo: 55085
Client ID: PBW	Batch ID: 24167	TestNo: D2036	D2036	Analysis Date: 8/6/2024	SeqNo: 714014
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Cyanide, WAD	ND	0.005			

Sample ID: LCS-R55085	SampType: LCS	TestCode: CN_WAD	Units: mg/L	Prep Date:	RunNo: 55085
Client ID: LCSW	Batch ID: 24167	TestNo: D2036	D2036	Analysis Date: 8/6/2024	SeqNo: 714015
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Cyanide, WAD	0.100	0.005	0.100	0	100 70 130

**Qualifiers:** E Value above quantitation range  
S Spike Recovery outside accepted recovery limits  
H Holding times for preparation or analysis exceeded  
R RPD outside accepted recovery limits

# QC SUMMARY REPORT

WO#: 2407267  
8/27/2024

## Specialty Analytical

Client: Weyerhaeuser  
Project: Priority Pollutants/ Outfall 001B

TestCode: CN\_WAD

Sample ID: LCS-R55085	SampType: LCS	TestCode: CN_WAD	Units: mg/L	Prep Date:	RunNo: 55085
Client ID: LCSW	Batch ID: 24167	TestNo: D2036	D2036	Analysis Date: 8/6/2024	SeqNo: 714015
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Sample ID: 2407267-001AMS	SampType: MS	TestCode: CN_WAD	Units: mg/L	Prep Date: 8/6/2024	RunNo: 55085						
Client ID: Outfall 001B	Batch ID: 24167	TestNo: D2036	D2036	Analysis Date: 8/6/2024	SeqNo: 714017						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide, WAD	0.045	0.005	0.050	0	90.0	67.9	119				

Sample ID: 2407267-001AMSD	SampType: MSD	TestCode: CN_WAD	Units: mg/L	Prep Date: 8/6/2024	RunNo: 55085						
Client ID: Outfall 001B	Batch ID: 24167	TestNo: D2036	D2036	Analysis Date: 8/6/2024	SeqNo: 714018						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide, WAD	0.046	0.005	0.050	0	91.6	67.9	119	0.045	1.79	20	

Sample ID: CCV2-R55085	SampType: CCV	TestCode: CN_WAD	Units: mg/L	Prep Date:	RunNo: 55085						
Client ID: CCV	Batch ID: 24167	TestNo: D2036	D2036	Analysis Date: 8/6/2024	SeqNo: 714019						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide, WAD	0.108	0.005	0.100	0	108	90	110				

**Qualifiers:** E Value above quantitation range  
S Spike Recovery outside accepted recovery limits  
H Holding times for preparation or analysis exceeded  
R RPD outside accepted recovery limits

# QC SUMMARY REPORT

WO#: 2407267  
8/27/2024

## Specialty Analytical

Client: Weyerhaeuser  
Project: Priority Pollutants/ Outfall 001B

TestCode: CN\_WAD

Sample ID: CCB2-R55085	SampType: CCB	TestCode: CN_WAD	Units: mg/L	Prep Date:	RunNo: 55085						
Client ID: CCB	Batch ID: 24167	TestNo: D2036	D2036	Analysis Date: 8/6/2024	SeqNo: 714020						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide, WAD	ND	0.005									

Qualifiers: E Value above quantitation range  
S Spike Recovery outside accepted recovery limits

H Holding times for preparation or analysis exceeded

R RPD outside accepted recovery limits

# QC SUMMARY REPORT

WO#: 2407267  
8/27/2024

## Specialty Analytical

Client: Weyerhaeuser  
Project: Priority Pollutants/ Outfall 001B

TestCode: CR6\_IC

Sample ID: CCV-1	SampType: CCV	TestCode: CR6_IC	Units: µg/L	Prep Date:	RunNo: 55057						
Client ID: CCV	Batch ID: R55057	TestNo: 218.6		Analysis Date: 8/2/2024	SeqNo: 713678						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	19.2	0.500	20.00	0	96.2	90	110				

Sample ID: MB-1	SampType: MBLK	TestCode: CR6_IC	Units: µg/L	Prep Date:	RunNo: 55057						
Client ID: PBW	Batch ID: R55057	TestNo: 218.6		Analysis Date: 8/2/2024	SeqNo: 713679						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	ND	0.500									

Sample ID: LCS-R55057	SampType: LCS	TestCode: CR6_IC	Units: µg/L	Prep Date:	RunNo: 55057						
Client ID: LCSW	Batch ID: R55057	TestNo: 218.6		Analysis Date: 8/2/2024	SeqNo: 713680						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	9.54	0.500	10.00	0	95.4	90	110				

Sample ID: LCSD-R55057	SampType: LCSD	TestCode: CR6_IC	Units: µg/L	Prep Date:	RunNo: 55057						
Client ID: LCSS02	Batch ID: R55057	TestNo: 218.6		Analysis Date: 8/2/2024	SeqNo: 713681						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium Hexavalent	9.56	0.500	10.00	0	95.6	90	110	9.540	0.209	20	

**Qualifiers:** E Value above quantitation range  
S Spike Recovery outside accepted recovery limits  
H Holding times for preparation or analysis exceeded  
R RPD outside accepted recovery limits

# QC SUMMARY REPORT

WO#: 2407267  
8/27/2024

## Specialty Analytical

Client: Weyerhaeuser  
Project: Priority Pollutants/ Outfall 001B

TestCode: CR6\_IC

Sample ID: LCSD-R55057	SampType: LCSD	TestCode: CR6_IC	Units: µg/L	Prep Date:	RunNo: 55057						
Client ID: LCSS02	Batch ID: R55057	TestNo: 218.6		Analysis Date: 8/2/2024	SeqNo: 713681						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: 2407236-001ADUP	SampType: DUP	TestCode: CR6_IC	Units: µg/L	Prep Date:	RunNo: 55057						
Client ID: BatchQC	Batch ID: R55057	TestNo: 218.6		Analysis Date: 8/2/2024	SeqNo: 713685						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	0.770	0.500						0.8200	6.29	20	

Sample ID: 2407236-001AMS		SampType: MS	TestCode: CR6_IC		Units: µg/L	Prep Date:		RunNo: 55057			
Client ID: BatchQC		Batch ID: R55057	TestNo: 218.6		Analysis Date: 8/2/2024		SeqNo: 713686				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	10.1	0.500	10.00	0.8200	92.6	75	125				

Sample ID: 2407236-001AMSD		SampType: MSD		TestCode: CR6_IC		Units: µg/L		Prep Date:		RunNo: 55057			
Client ID: BatchQC		Batch ID: R55057		TestNo: 218.6				Analysis Date: 8/2/2024		SeqNo: 713687			
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent		10.1		0.500	10.00	0.8200	92.4	75	125	10.08	0.199		20

**Qualifiers:** E Value above quantitation range  
S Spike Recovery outside accepted recovery limits  
H Holding times for preparation or analysis exceeded  
R RPD outside accepted recovery limits

# QC SUMMARY REPORT

WO#: 2407267  
8/27/2024

## Specialty Analytical

Client: Weyerhaeuser  
Project: Priority Pollutants/ Outfall 001B

TestCode: CR6\_IC

Sample ID: CCV-2	SampType: CCV	TestCode: CR6_IC	Units: µg/L	Prep Date:	RunNo: 55057						
Client ID: CCV	Batch ID: R55057	TestNo: 218.6		Analysis Date: 8/2/2024	SeqNo: 713693						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	19.4	0.500	20.00	0	97.0	90	110				

Sample ID: MB-2	SampType: MBLK	TestCode: CR6_IC	Units: µg/L	Prep Date:	RunNo: 55057						
Client ID: PBW	Batch ID: R55057	TestNo: 218.6		Analysis Date: 8/2/2024	SeqNo: 713694						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	ND	0.500									

Qualifiers: E Value above quantitation range  
S Spike Recovery outside accepted recovery limits

H Holding times for preparation or analysis exceeded

R

RPD outside accepted recovery limits

# QC SUMMARY REPORT

WO#: 2407267  
8/27/2024

## Specialty Analytical

Client: Weyerhaeuser  
Project: Priority Pollutants/ Outfall 001B

TestCode: PHENOLICS\_W

Sample ID: MB-R55019	SampType: MBLK	TestCode: PHENOLICS_	Units: mg/L	Prep Date:	RunNo: 55019						
Client ID: PBW	Batch ID: R55019	TestNo: E420.1		Analysis Date: 8/1/2024	SeqNo: 713098						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenolics, Total Recoverable	ND	0.0500									

Sample ID: LCS-R55019	SampType: LCS	TestCode: PHENOLICS_	Units: mg/L	Prep Date:	RunNo: 55019						
Client ID: LCSW	Batch ID: R55019	TestNo: E420.1		Analysis Date: 8/1/2024	SeqNo: 713099						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenolics, Total Recoverable	0.934	0.0500	1.000	0	93.4	90	110				

Sample ID: 2407228-001BMS	SampType: MS	TestCode: PHENOLICS_		Units: mg/L	Prep Date:		RunNo: 55019				
Client ID: BatchQC	Batch ID: R55019	TestNo: E420.1		Analysis Date: 8/1/2024		SeqNo: 713103					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenolics, Total Recoverable	2.43	0.0500	0.2500	2.301	50.9	75	125				SE

Sample ID: 2407228-001BMSD	SampType: MSD	TestCode: PHENOLICS_ Units: mg/L				Prep Date:	RunNo: 55019				
Client ID: BatchQC	Batch ID: R55019	TestNo: E420.1				Analysis Date: 8/1/2024	SeqNo: 713104				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenolics, Total Recoverable	2.57	0.0500	0.2500	2.301	109	75	125	2.428	5.77	20	E

Qualifiers: E Value above quantitation range  
S Spike Recovery outside accepted recovery limits

H Holding times for preparation or analysis exceeded

R RPD outside accepted recovery limits

# QC SUMMARY REPORT

WO#: 2407267  
8/27/2024

## Specialty Analytical

Client: Weyerhaeuser  
Project: Priority Pollutants/ Outfall 001B

TestCode: PHENOLICS\_W

Sample ID: 2407228-001BMSD	SampType: MSD	TestCode: PHENOLICS_	Units: mg/L	Prep Date:	RunNo: 55019						
Client ID: BatchQC	Batch ID: R55019	TestNo: E420.1		Analysis Date: 8/1/2024	SeqNo: 713104						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: CCV1-R55019	SampType: CCV	TestCode: PHENOLICS_	Units: mg/L	Prep Date:	RunNo: 55019						
Client ID: CCV	Batch ID: R55019	TestNo: E420.1		Analysis Date: 8/1/2024	SeqNo: 713108						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: CCB1-R55019	SampType: CCB	TestCode: PHENOLICS_	Units: mg/L	Prep Date:	RunNo: 55019						
Client ID: CCB	Batch ID: R55019	TestNo: E420.1		Analysis Date: 8/1/2024	SeqNo: 713109						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: CCV2-R55019	SampType: CCV	TestCode: PHENOLICS_	Units: mg/L	Prep Date:	RunNo: 55019						
Client ID: CCV	Batch ID: R55019	TestNo: E420.1		Analysis Date: 8/1/2024	SeqNo: 713111						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: E Value above quantitation range  
S Spike Recovery outside accepted recovery limits

H Holding times for preparation or analysis exceeded

R

RPD outside accepted recovery limits



QC SUMMARY REPORT

WO#: 2407267  
8/27/2024

Specialty Analytical

Client: Weyerhaeuser  
Project: Priority Pollutants/ Outfall 001B

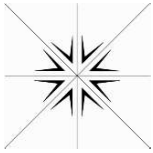
TestCode: PHENOLICS\_W

Sample ID: CCB2-R55019	SampType: CCB	TestCode: PHENOLICS_	Units: mg/L	Prep Date:	RunNo: 55019						
Client ID: CCB	Batch ID: R55019	TestNo: E420.1		Analysis Date: 8/1/2024	SeqNo: 713112						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenolics, Total Recoverable	ND	0.0500									

Qualifiers: E Value above quantitation range  
S Spike Recovery outside accepted recovery limits

H Holding times for preparation or analysis exceeded

R RPD outside accepted recovery limits



Specialty Analytical  
9011 SE Jannsen Ra  
Clackamas, Oregon 97015  
TEL: 503-607-1331 FAX: 503-607-1336  
Website: www.specialtyanalytical.com

## Sample Receipt Checklist

Client Name: WEYERHAEUSER

Work Order Number 2407267

RcptNo: 1

Date and Time Received 7/30/2024 4:10:00 PM

Received by: Mandy Wehe

Completed by

Reviewed by:

Completed Date:

7/30/2024

Reviewed Date:

7/31/2024 8:50:10 AM

Carrier name: SA

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present	<input type="checkbox"/>
Are matrices correctly identified on Chain of custody?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Is it clear what analyses were requested?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present	<input checked="" type="checkbox"/>
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Were correct preservatives used and noted?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA	<input type="checkbox"/>
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Were container labels complete (ID, Pres, Date)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Was an attempt made to cool the samples?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA	<input type="checkbox"/>
All samples received at a temp. of > 0° C to 6.0° C?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA	<input type="checkbox"/>
Response when temperature is outside of range:				
Preservative added to bottles:				
Sample Temp. taken and recorded upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	To	2.6°C
Water - Were bubbles absent in VOC vials?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No Vials	<input type="checkbox"/>
Water - Was there Chlorine Present?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA	<input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA	<input type="checkbox"/>
Are Samples considered acceptable?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Custody Seals present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Traffic Report or Packing Lists present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		
Airbill or Sticker?	Air Bill <input type="checkbox"/>	Sticker <input type="checkbox"/>	Not Present	<input checked="" type="checkbox"/>
Airbill No:				
Sample Tags Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		
Sample Tags Listed on COC?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		
Tag Numbers:				
Sample Condition?	Intact <input checked="" type="checkbox"/>	Broken <input type="checkbox"/>	Leaking	<input type="checkbox"/>

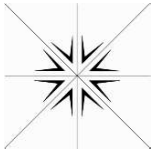
Case Number:

SDG:

SAS:

Adjusted? \_\_\_\_\_ Checked by

Any No and/or NA (not applicable) response must be detailed in the comments section be



*Specialty Analytical*  
9011 SE Jannsen Ra  
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## Sample Receipt Checklist

---

Client Contacted? ☐ Yes ☒ No ☐ NA Person Contacted: \_\_\_\_\_ Comments: \_\_\_\_\_  
Contact Mode: ☐ Phone: ☐ Fax: ☐ Email: ☐ In Person: \_\_\_\_\_  
Client Instructions: \_\_\_\_\_  
Date Contacted: \_\_\_\_\_ Contacted By: \_\_\_\_\_  
Regarding: \_\_\_\_\_  
CorrectiveAction: \_\_\_\_\_

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ALS Environmental  
ALS Group USA, Corp  
1317 South 13th Avenue  
Kelso, WA 98626  
T : +1 360 577 7222  
F : +1 360 636 1068  
[www.alsglobal.com](http://www.alsglobal.com)

August 16, 2024

**Analytical Report for Service Request No: K2407848**

Julie Clay  
Specialty Analytical  
9011 SE Jannsen Road  
Clackamas, OR 97015

**RE: 2407267**

Dear Julie,

Enclosed are the results of the sample(s) submitted to our laboratory July 30, 2024  
For your reference, these analyses have been assigned our service request number **K2407848**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at [www.alsglobal.com](http://www.alsglobal.com). All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3364. You may also contact me via email at [howard.holmes@alsglobal.com](mailto:howard.holmes@alsglobal.com).

Respectfully submitted,

**ALS Group USA, Corp. dba ALS Environmental**

Howard Holmes  
Project Manager



---

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State Certifications, Accreditations, And Licenses

Case Narrative

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Organochlorine Pesticides and Polychlorinated Biphenyls

Semivolatile Organic Compounds by GCMS

## Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

### Inorganic Data Qualifiers

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

### Metals Data Qualifiers

- # The control limit criteria is not applicable.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

### Organic Data Qualifiers

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

### Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso**  
**State Certifications, Accreditations, and Licenses**

<b>Agency</b>	<b>Web Site</b>	<b>Number</b>
Alaska DEH	<a href="http://dec.alaska.gov/eh/lab/cs/csapproval.htm">http://dec.alaska.gov/eh/lab/cs/csapproval.htm</a>	UST-040
Arizona DHS	<a href="http://www.azdhs.gov/lab/license/env.htm">http://www.azdhs.gov/lab/license/env.htm</a>	AZ0339
Arkansas - DEQ	<a href="http://www.adeq.state.ar.us/techsvs/labcert.htm">http://www.adeq.state.ar.us/techsvs/labcert.htm</a>	88-0637
California DHS (ELAP)	<a href="http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx">http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx</a>	2795
DOD ELAP	<a href="http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm">http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm</a>	L16-58-R4
Florida DOH	<a href="http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm">http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm</a>	E87412
Hawaii DOH	<a href="http://health.hawaii.gov/">http://health.hawaii.gov/</a>	-
ISO 17025	<a href="http://www.pjllabs.com/">http://www.pjllabs.com/</a>	L16-57
Louisiana DEQ	<a href="http://www.deq.louisiana.gov/page/la-lab-accreditation">http://www.deq.louisiana.gov/page/la-lab-accreditation</a>	03016
Maine DHS	<a href="http://www.maine.gov/dhhs/">http://www.maine.gov/dhhs/</a>	WA01276
Minnesota DOH	<a href="http://www.health.state.mn.us/accreditation">http://www.health.state.mn.us/accreditation</a>	053-999-457
Nevada DEP	<a href="http://ndep.nv.gov/bsdwlabservice.htm">http://ndep.nv.gov/bsdwlabservice.htm</a>	WA01276
New Jersey DEP	<a href="http://www.nj.gov/dep/enforcement/oqa.html">http://www.nj.gov/dep/enforcement/oqa.html</a>	WA005
New York - DOH	<a href="https://www.wadsworth.org/regulatory/elap">https://www.wadsworth.org/regulatory/elap</a>	12060
North Carolina DEQ	<a href="https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification">https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification</a>	605
Oklahoma DEQ	<a href="http://www.deq.state.ok.us/CSDnew/labcert.htm">http://www.deq.state.ok.us/CSDnew/labcert.htm</a>	9801
Oregon – DEQ (NELAP)	<a href="http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx">http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx</a>	WA100010
South Carolina DHEC	<a href="http://www.scdhec.gov/environment/EnvironmentalLabCertification/">http://www.scdhec.gov/environment/EnvironmentalLabCertification/</a>	61002
Texas CEQ	<a href="http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html">http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html</a>	T104704427
Washington DOE	<a href="http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html">http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html</a>	C544
Wyoming (EPA Region 8)	<a href="https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water">https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water</a>	-
Kelso Laboratory Website	<a href="http://www.alsglobal.com">www.alsglobal.com</a>	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at [www.ALSGlobal.com](http://www.ALSGlobal.com) or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.





## Case Narrative

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360)577- 7222 Fax (360)636- 1068  
[www.alsglobal.com](http://www.alsglobal.com)

**Client:** Specialty Analytical  
**Project:** 2407267  
**Sample Matrix:** Water

**Service Request:** K2407848  
**Date Received:** 07/30/2024

### CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

#### Sample Receipt:

One water sample was received for analysis at ALS Environmental on 07/30/2024. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

#### Semivolatiles by GC/MS:

Method 625.1, 08/08/2024: The lower control criterion was exceeded for several analytes in the replicate Laboratory Control Samples (LCS/DLCS) KQ2411802-02/-03. The problem indicated a potential low bias to the affected analytes in the associated field sample. The data was flagged to indicate the issue. No further corrective action was taken.

Method 625.1: The following analytes were searched for and quantitated as Tentatively Identified Compounds (TICs): 3-Methylcholanthrene, Dibenz(a,h)acridine, Dibenz(a,j)acridine, Dibenzo(a,e)pyrene, Dibenz(a,h)pyrene, Dibenz(a,i)pyrene, and Perylene. No quantitative standards were analyzed for these analytes.

Method 625.1, 08/08/2024: The detection limits were elevated for sample Outfall 001B. The chromatogram indicated the presence of non-target background components. The sample was diluted in order to prevent damage to the instrument or was diluted in order to achieve optimal resolution of the target analytes.

Method 625.1, 08/08/2024: The lower control criterion was exceeded for 2-Fluorobiphenyl in method blank KQ2411802-01. No target analytes were detected in the Method Blank. The problem indicated a potential negative bias to the Method Blank results. All surrogate recoveries were acceptable for the associated field sample and other batch QC samples.

Method 625.1, 08/08/2024: X-The analysis of the following analytes by EPA 625.1 in sample Outfall 001B was performed on 08/08/24: Indeno(1,2,3-cd)pyrene and Benzo(b)fluoranthene. As a result of a recent external audit, ALS Kelso did not have accreditation for the analytes in question at time of analysis. Efforts are being made to restore accreditation for the analytes in question as soon as possible. The results are reported in accordance with client instruction.

#### Semivolatile GC:

Method 608.3, 08/08/2024: The detection limits were elevated for analytes in sample 001B Outfall. The chromatogram indicated the presence of non-target background components. The matrix interference may have prevented adequate resolution of the target compounds at the normal limit and so the sample was re-analyzed at a dilution. The results from the dilution were reported.

Method 608.3, 08/08/2024: The control criteria were exceeded for Decachlorobiphenyl in sample 001B Outfall due to matrix interference. The recovery for Tetrachloro-m-xylene was acceptable. No further corrective action was appropriate.

Method 608.3, 08/08/2024: The upper control criterion was exceeded for 4,4'-DDT, Endrin Aldehyde, and Decachlorobiphenyl in Continuing Calibration Verification (CCV) KQ2412350-03. The field samples analyzed in this sequence did not contain the target analytes in question. The surrogate was affected by matrix interference for the associated field sample. Since the apparent problem indicated a potential high bias, the data quality was not affected. No further corrective action was required.

Method 608.3, 08/08/2024: The analysis of Organochlorine Pesticides and Polychlorinated Biphenyls by EPA 608.3 requires the use of dual column confirmation. When the Continuing Calibration Verification (CCV) criterion is met for both columns, the lower of the two sample results is generally reported. The primary evaluation criteria were not met on the confirmation column for 4,4'-DDD and Endosulfan Sulfate. The results were reported from the column with an acceptable CCV. The data quality was not affected. No further corrective action was necessary.

Method 608.3, 08/08/2024: The spike recovery of trans-Chlordane for Laboratory Control Sample (LCS) KQ2411791-02 was outside the lower control criterion. The analyte in question was not detected in the associated field samples. The error associated with reduced recovery indicated a potential slight low bias. The data was flagged to indicate the problem.

Approved by



Date

08/16/2024

**Metals:**

No significant anomalies were noted with this analysis.

Approved by



Date

08/16/2024



## Chain of Custody

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360)577- 7222 Fax (360)636- 1068  
[www.alsglobal.com](http://www.alsglobal.com)

K24078-18

Specialty Analytical				Chain of Custody Record			
9011 SE Jannsen Rd Clackamas, OR 97015 Phone: 503-607-1331 www.specialtyanalytical.com				Date: 7-30-24 Page: 1 of 1			
Client: Specialty Analytical				Project Name: 2407267			
Address:				Project No: PO No:			
City, State, Zip:				Collected by: Client			
Telephone:				State Collected: OR WA OTHER			
Invoice Email: Mandy@specialtyanalytical.com				Report To (PM): PM/Mandy Wehe			
PM Email(s): julie@specialtyanalytical.com				PM Email(s): julie@specialtyanalytical.com			
Sample Name	Sample Date	Sample Time	Sample Matrix*	# of Containers	Requested Tests	Comments	
1 Outfall 001B	7-30-24	0930	WW	3	1631 TL Hg 625 Pst/PCB 608 Pst/PCB	— Please use analyte list from ALS job K2407702 (2407228) —	
2							
3							
4							
5						2-1 liter cumbars	
6						1-1631 bottle kit	
7							
8							
9							
10							
* Matrix: A = Air, AQ = Aqueous, L = Liquid, O = Oil, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, VWW = Waste Water, M = Miscellaneous							
Turn-around Time:				Standard: X 3 Day: 2 Day: Next Day: Same Day:			
Relinquished x				Expedited turn-around requests should be coordinated in advance			
Date/Time 7-30-24 1409				Date/Time 7-30-24 1409			
Relinquished x				Date/Time			
Date/Time				Date/Time			
Relinquished x				Date/Time			
Date/Time				Date/Time			

Cooler Receipt and Preservation Form

Client Specialty Analytica Service Request K24 07848  
Received: 7/30/24 Opened: 7/30/24 By: HS Unloaded: 7/30/24 By: HS

1. Samples were received via? USPS Fed Ex UPS DHL PDX Courier Hand Delivered  
2. Samples were received in: (circle) Cooler Box Envelope Other NA  
3. Were custody seals on coolers? NA Y N If yes, how many and where? \_\_\_\_\_  
If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp Indicate with "X"	PM Notified If out of temp	Tracking Number NA	Filed
<u>11.4</u>	<u>5.1</u>	<u>1202</u> <u>1208</u>					

4. Was a Temperature Blank present in cooler? NA Y N If yes, notate the temperature in the appropriate column above:  
If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":  
5. Were samples received within the method specified temperature ranges? NA Y N  
If no, were they received on ice and same day as collected? If not, notate the cooler # above and notify the PM. NA Y N  
If applicable, tissue samples were received: Frozen Partially Thawed Thawed  
6. Packing material: Inserts Baggies Bubble Wrap Gel Packs Wet Ice Dry Ice Sleeves \_\_\_\_\_  
7. Were custody papers properly filled out (ink, signed, etc.)? NA Y N  
8. Were samples received in good condition (unbroken) NA Y N  
9. Were all sample labels complete (ie, analysis, preservation, etc.)? NA Y N  
10. Did all sample labels and tags agree with custody papers? NA Y N  
11. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N  
12. Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below NA Y N  
13. Were VOA vials received without headspace? Indicate in the table below. NA Y N  
14. Was C12/Res negative? NA Y N  
15. Were samples received within the method specified time limit? If not, notate the error below and notify the PM NA Y N  
16. Were 100ml sterile microbiology bottles filled exactly to the 100ml mark? NA Y N Underfilled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Head- space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

SHORT HOLD



# Metals

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360)577-7222 Fax (360)636-1068  
[www.alsglobal.com](http://www.alsglobal.com)

ALS Group USA, Corp.  
dba ALS Environmental  
Analytical Report

**Client:** Specialty Analytical  
**Project:** 2407267  
**Sample Matrix:** Water

**Service Request:** K2407848  
**Date Collected:** 07/30/24  
**Date Received:** 07/30/24

Mercury, Total

**Prep Method:** METHOD  
**Analysis Method:** 1631E  
**Test Notes:**

**Units:** ng/L  
**Basis:** NA

Sample Name	Lab Code	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Outfall 001B	K2407848-001	0.5	1	08/07/24	08/08/24	5.3	
Method Blank 1	K2407848-MB1	0.5	1	08/07/24	08/08/24	ND	
Method Blank 2	K2407848-MB2	0.5	1	08/07/24	08/08/24	ND	
Method Blank 3	K2407848-MB3	0.5	1	08/07/24	08/08/24	ND	



ALS Group USA, Corp.  
dba ALS Environmental  
QA/QC Report

Client: Specialty Analytical  
Project: 2407267  
LCS Matrix: Water

Service Request: K2407848  
Date Collected: NA  
Date Received: NA  
Date Extracted: NA  
Date Analyzed: 08/08/24

Ongoing Precision and Recovery (OPR) Sample Summary  
Total Metals

Sample Name: Ongoing Precision and Recovery (Initial) Units: ng/L  
Basis: NA

Test Notes:

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	ALS	Result Notes
						Percent Recovery Acceptance Limits	
Mercury	METHOD	1631E	5.00	5.14	103	77-123	

ALS Group USA, Corp.  
dba ALS Environmental  
QA/QC Report

Client: Specialty Analytical  
Project: 2407267  
LCS Matrix: Water

Service Request: K2407848  
Date Collected: NA  
Date Received: NA  
Date Extracted: NA  
Date Analyzed: 08/08/24

Ongoing Precision and Recovery (OPR) Sample Summary  
Total Metals

Sample Name: Ongoing Precision and Recovery (Final) Units: ng/L  
Basis: NA

Test Notes:

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	ALS	Result Notes
						Percent Recovery Acceptance Limits	
Mercury	METHOD	1631E	5.00	5.08	102	77-123	

ALS Group USA, Corp.  
dba ALS Environmental  
QA/QC Report

Client: Specialty Analytical  
Project: 2407267  
LCS Matrix: Water

Service Request: K2407848  
Date Collected: NA  
Date Received: NA  
Date Extracted: 8/7/2024  
Date Analyzed: 08/08/24

Quality Control Sample (QCS) Summary  
Total Metals

Sample Name: Quality Control Sample  
Units: ng/L  
Basis: NA  
Test Notes:

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	ALS	Result Notes
						Percent Recovery Acceptance Limits	
Mercury	METHOD	1631E	5.00	5.04	101	77-123	



# Organochlorine Pesticides and Polychlorinated Biphenyls

**ALS Environmental—Kelso Laboratory**  
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Phone (360)577-7222 Fax (360)636-1068  
[www.alsglobal.com](http://www.alsglobal.com)

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Specialty Analytical  
**Project:** 2407267  
**Sample Matrix:** Water

**Service Request:** K2407848  
**Date Collected:** 07/30/24 09:30  
**Date Received:** 07/30/24 14:09

**Sample Name:** Outfall 001B  
**Lab Code:** K2407848-001

**Units:** ug/L  
**Basis:** NA

**Organochlorine Pesticides and Polychlorinated Biphenyls**

**Analysis Method:** 608.3  
**Prep Method:** EPA 3520C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aldrin	ND U	0.095	10	08/08/24 17:02	7/31/24	
Aroclor 1016	ND U	1.0	10	08/08/24 17:02	7/31/24	
Aroclor 1221	ND U	1.0	10	08/08/24 17:02	7/31/24	
Aroclor 1232	ND U	1.0	10	08/08/24 17:02	7/31/24	
Aroclor 1242	ND U	1.0	10	08/08/24 17:02	7/31/24	
Aroclor 1248	ND U	1.0	10	08/08/24 17:02	7/31/24	
Aroclor 1254	ND U	1.0	10	08/08/24 17:02	7/31/24	
Aroclor 1260	ND U	1.0	10	08/08/24 17:02	7/31/24	
alpha-BHC	ND U	0.095	10	08/08/24 17:02	7/31/24	
beta-BHC	ND U	0.42	10	08/08/24 17:02	7/31/24	
delta-BHC	ND U	0.095	10	08/08/24 17:02	7/31/24	
gamma-BHC (Lindane)	ND U	0.095	10	08/08/24 17:02	7/31/24	
Chlordane	ND U	1.9	10	08/08/24 17:02	7/31/24	
cis-Chlordane	ND U	0.095	10	08/08/24 17:02	7/31/24	
trans-Chlordane	ND U	0.095	10	08/08/24 17:02	7/31/24	*
4,4'-DDD	ND U	0.095	10	08/08/24 17:02	7/31/24	
4,4'-DDE	ND U	0.095	10	08/08/24 17:02	7/31/24	
4,4'-DDT	ND U	0.095	10	08/08/24 17:02	7/31/24	*
Dieldrin	ND U	0.095	10	08/08/24 17:02	7/31/24	
Endosulfan I	0.17 P	0.095	10	08/08/24 17:02	7/31/24	
Endosulfan II	ND U	0.095	10	08/08/24 17:02	7/31/24	
Endosulfan Sulfate	ND U	0.095	10	08/08/24 17:02	7/31/24	
Endrin	ND U	0.095	10	08/08/24 17:02	7/31/24	
Endrin Aldehyde	ND U	0.095	10	08/08/24 17:02	7/31/24	*
Heptachlor	ND U	0.095	10	08/08/24 17:02	7/31/24	
Heptachlor Epoxide	ND U	0.095	10	08/08/24 17:02	7/31/24	
Toxaphene	ND U	4.8	10	08/08/24 17:02	7/31/24	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	0	10 - 134	08/08/24 17:02	*
Tetrachloro-m-xylene	32	10 - 134	08/08/24 17:02	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Specialty Analytical  
**Project:** 2407267  
**Sample Matrix:** Water

**Service Request:** K2407848  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Method Blank  
**Lab Code:** KQ2411794-01

**Units:** ug/L  
**Basis:** NA

Organochlorine Pesticides and Polychlorinated Biphenyls

**Analysis Method:** 608.3  
**Prep Method:** EPA 3520C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aldrin	ND U	0.0095	1	08/13/24 17:45	7/31/24	
Aroclor 1016	ND U	0.10	1	08/13/24 17:45	7/31/24	
Aroclor 1221	ND U	0.10	1	08/13/24 17:45	7/31/24	
Aroclor 1232	ND U	0.10	1	08/13/24 17:45	7/31/24	
Aroclor 1242	ND U	0.10	1	08/13/24 17:45	7/31/24	
Aroclor 1248	ND U	0.10	1	08/13/24 17:45	7/31/24	
Aroclor 1254	ND U	0.10	1	08/13/24 17:45	7/31/24	
Aroclor 1260	ND U	0.10	1	08/13/24 17:45	7/31/24	
alpha-BHC	ND U	0.0095	1	08/13/24 17:45	7/31/24	
beta-BHC	ND U	0.042	1	08/13/24 17:45	7/31/24	
delta-BHC	ND U	0.0095	1	08/13/24 17:45	7/31/24	
gamma-BHC (Lindane)	ND U	0.0095	1	08/13/24 17:45	7/31/24	
Chlordane	ND U	0.19	1	08/13/24 17:45	7/31/24	
cis-Chlordane	ND U	0.0095	1	08/13/24 17:45	7/31/24	
trans-Chlordane	ND U	0.0095	1	08/13/24 17:45	7/31/24	
4,4'-DDD	ND U	0.0095	1	08/13/24 17:45	7/31/24	
4,4'-DDE	ND U	0.0095	1	08/13/24 17:45	7/31/24	
4,4'-DDT	ND U	0.0095	1	08/13/24 17:45	7/31/24	
Dieldrin	ND U	0.0095	1	08/13/24 17:45	7/31/24	
Endosulfan I	ND U	0.0095	1	08/13/24 17:45	7/31/24	
Endosulfan II	ND U	0.0095	1	08/13/24 17:45	7/31/24	
Endosulfan Sulfate	ND U	0.0095	1	08/13/24 17:45	7/31/24	
Endrin	ND U	0.0095	1	08/13/24 17:45	7/31/24	
Endrin Aldehyde	ND U	0.0095	1	08/13/24 17:45	7/31/24	
Heptachlor	ND U	0.0095	1	08/13/24 17:45	7/31/24	
Heptachlor Epoxide	ND U	0.0095	1	08/13/24 17:45	7/31/24	
Toxaphene	ND U	0.48	1	08/13/24 17:45	7/31/24	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	62	10 - 134	08/13/24 17:45	
Tetrachloro-m-xylene	63	10 - 134	08/13/24 17:45	

ALS Group USA, Corp.  
dba ALS Environmental

Confirmation Results

**Client:** Specialty Analytical  
**Project:** 2407267  
**Matrix:** Water

**Service Request:** K2407848  
**Date Collected:** 07/30/24 09:30  
**Date Received:** 7/30/24

**Sample Name:** Outfall 001B  
**Lab Code:** K2407848-001

**Units:** ug/L  
**Basis:** NA

Organochlorine Pesticides and Polychlorinated Biphenyls

**Analytical Method:** 608.3  
**Prep Method:** EPA 3520C

Analyte Name	MRL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Endosulfan I	0.095	0.17	0.30	55	P	10	08/08/24 17:02

ALS Group USA, Corp.  
dba ALS Environmental

Confirmation Results

**Client:** Specialty Analytical  
**Project:** 2407267  
**Matrix:** Water

**Service Request:** K2407848  
**Date Collected:** NA  
**Date Received:**

**Sample Name:** Lab Control Sample  
**Lab Code:** KQ2411794-02

**Units:** ug/L

**Basis:** NA

Organochlorine Pesticides and Polychlorinated Biphenyls

**Analytical Method:** 608.3  
**Prep Method:** EPA 3520C

Analyte Name	MRL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
4,4'-DDD	0.010	0.0471	0.0490	4		1	08/13/24 18:18
4,4'-DDE	0.010	0.0492	0.0502	2		1	08/13/24 18:18
4,4'-DDT	0.010	0.0508	0.0518	2		1	08/13/24 18:18
Aldrin	0.010	0.0473	0.0481	2		1	08/13/24 18:18
Dieldrin	0.010	0.0467	0.0474	1		1	08/13/24 18:18
Endosulfan I	0.010	0.0447	0.0452	1		1	08/13/24 18:18
Endosulfan II	0.010	0.0448	0.0451	<1		1	08/13/24 18:18
Endosulfan Sulfate	0.010	0.0467	0.0520	11		1	08/13/24 18:18
Endrin	0.010	0.0493	0.0497	<1		1	08/13/24 18:18
Endrin Aldehyde	0.010	0.0509	0.0598	16		1	08/13/24 18:18
Heptachlor	0.010	0.0476	0.0479	<1		1	08/13/24 18:18
Heptachlor Epoxide	0.010	0.0488	0.0488	<1		1	08/13/24 18:18
alpha-BHC	0.010	0.0476	0.0478	<1		1	08/13/24 18:18
beta-BHC	0.042	0.0450	0.0484	7		1	08/13/24 18:18
cis-Chlordane	0.010	0.0493	0.0499	1		1	08/13/24 18:18
delta-BHC	0.010	0.0478	0.0480	<1		1	08/13/24 18:18
gamma-BHC (Lindane)	0.010	0.0480	0.0500	4		1	08/13/24 18:18
trans-Chlordane	0.010	0.0435	0.0439	<1		1	08/13/24 18:18



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Confirmation Results

**Client:** Specialty Analytical  
**Project:** 2407267  
**Matrix:** Water

**Service Request:** K2407848  
**Date Collected:** NA  
**Date Received:**

**Sample Name:** Duplicate Lab Control Sample  
**Lab Code:** KQ2411794-03

**Units:** ug/L

**Basis:** NA

Organochlorine Pesticides and Polychlorinated Biphenyls

**Analytical Method:** 608.3  
**Prep Method:** EPA 3520C

Analyte Name	MRL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
4,4'-DDD	0.010	0.0497	0.0528	6		1	08/13/24 18:50
4,4'-DDE	0.010	0.0513	0.0542	5		1	08/13/24 18:50
4,4'-DDT	0.010	0.0547	0.0556	2		1	08/13/24 18:50
Aldrin	0.010	0.0495	0.0514	4		1	08/13/24 18:50
Dieldrin	0.010	0.0494	0.0512	4		1	08/13/24 18:50
Endosulfan I	0.010	0.0470	0.0486	3		1	08/13/24 18:50
Endosulfan II	0.010	0.0474	0.0481	1		1	08/13/24 18:50
Endosulfan Sulfate	0.010	0.0491	0.0564	14		1	08/13/24 18:50
Endrin	0.010	0.0524	0.0541	3		1	08/13/24 18:50
Endrin Aldehyde	0.010	0.0547	0.0626	13		1	08/13/24 18:50
Heptachlor	0.010	0.0501	0.0512	2		1	08/13/24 18:50
Heptachlor Epoxide	0.010	0.0512	0.0525	3		1	08/13/24 18:50
alpha-BHC	0.010	0.0500	0.0515	3		1	08/13/24 18:50
beta-BHC	0.042	0.0510	0.0531	4		1	08/13/24 18:50
cis-Chlordane	0.010	0.0523	0.0525	<1		1	08/13/24 18:50
delta-BHC	0.010	0.0506	0.0510	<1		1	08/13/24 18:50
gamma-BHC (Lindane)	0.010	0.0505	0.0539	7		1	08/13/24 18:50
trans-Chlordane	0.010	0.0462	0.0465	<1		1	08/13/24 18:50

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Confirmation Results

**Client:** Specialty Analytical  
**Project:** 2407267  
**Matrix:** Water

**Service Request:** K2407848  
**Date Collected:** NA  
**Date Received:**

**Sample Name:** Lab Control Sample  
**Lab Code:** KQ2411794-04

**Units:** ug/L  
**Basis:** NA

Organochlorine Pesticides and Polychlorinated Biphenyls

**Analytical Method:** 608.3  
**Prep Method:** EPA 3520C

Analyte Name	MRL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Aroclor 1016	0.10	0.271	0.281	4		1	08/13/24 19:23
Aroclor 1260	0.10	0.222	0.261	16		1	08/13/24 19:23

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Confirmation Results

**Client:** Specialty Analytical  
**Project:** 2407267  
**Matrix:** Water

**Service Request:** K2407848  
**Date Collected:** NA  
**Date Received:**

**Sample Name:** Duplicate Lab Control Sample  
**Lab Code:** KQ2411794-05

**Units:** ug/L  
**Basis:** NA

Organochlorine Pesticides and Polychlorinated Biphenyls

**Analytical Method:** 608.3  
**Prep Method:** EPA 3520C

Analyte Name	MRL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Aroclor 1016	0.10	0.303	0.318	5		1	08/13/24 19:55
Aroclor 1260	0.10	0.259	0.286	10		1	08/13/24 19:55

**Client:** Specialty Analytical  
**Project:** 2407267  
**Sample Matrix:** Water

**Service Request:** K2407848

**SURROGATE RECOVERY SUMMARY**  
**Organochlorine Pesticides and Polychlorinated Biphenyls**

**Analysis Method:** 608.3  
**Extraction Method:** EPA 3520C

Sample Name	Lab Code	Decachlorobiphenyl	Tetrachloro-m-xylene
		10 - 134	10 - 134
Outfall 001B	K2407848-001	0 *	32
Method Blank	KQ2411794-01	62	63
Lab Control Sample	KQ2411794-02	62	62
Duplicate Lab Control Sample	KQ2411794-03	73	59
Lab Control Sample	KQ2411794-04	67	58
Duplicate Lab Control Sample	KQ2411794-05	72	62

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QA/QC Report

**Client:** Specialty Analytical  
**Project:** 2407267  
**Sample Matrix:** Water

**Service Request:** K2407848  
**Date Analyzed:** 08/13/24  
**Date Extracted:** 07/31/24

**Duplicate Lab Control Sample Summary**  
**Organochlorine Pesticides and Polychlorinated Biphenyls**

**Analysis Method:** 608.3  
**Prep Method:** EPA 3520C

**Units:** ug/L  
**Basis:** NA  
**Analysis Lot:** 850415

**Lab Control Sample**  
**KQ2411794-02**

**Duplicate Lab Control Sample**  
**KQ2411794-03**

Analyte Name	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
4,4'-DDD	0.0471	0.100	47	0.0497	0.100	50	31-141	5	39
4,4'-DDE	0.0492	0.100	49	0.0513	0.100	51	30-145	4	35
4,4'-DDT	0.0508	0.100	51	0.0547	0.100	55	25-160	7	42
Aldrin	0.0473	0.100	47	0.0495	0.100	50	42-140	5	35
alpha-BHC	0.0476	0.100	48	0.0500	0.100	50	37-140	5	36
beta-BHC	0.0450	0.100	45	0.0510	0.100	51	17-147	12	44
cis-Chlordane	0.0493	0.100	49	0.0523	0.100	52	45-140	6	35
delta-BHC	0.0478	0.100	48	0.0506	0.100	51	19-140	6	52
Dieldrin	0.0467	0.100	47	0.0494	0.100	49	36-146	6	49
Endosulfan I	0.0447	0.100	45	0.0470	0.100	47	45-153	5	28
Endosulfan II	0.0448	0.100	45	0.0474	0.100	47	10-202	6	53
Endosulfan Sulfate	0.0467	0.100	47	0.0491	0.100	49	26-144	5	38
Endrin	0.0493	0.100	49	0.0524	0.100	52	30-147	6	48
Endrin Aldehyde	0.0509	0.100	51	0.0547	0.100	55	43-125	7	30
gamma-BHC (Lindane)	0.0480	0.100	48	0.0505	0.100	51	32-140	5	39
Heptachlor	0.0476	0.100	48	0.0501	0.100	50	34-140	5	43
Heptachlor Epoxide	0.0488	0.100	49	0.0512	0.100	51	37-142	5	26
trans-Chlordane	0.0435	0.100	44 *	0.0462	0.100	46	45-140	6	35

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QA/QC Report

**Client:** Specialty Analytical  
**Project:** 2407267  
**Sample Matrix:** Water

**Service Request:** K2407848  
**Date Analyzed:** 08/13/24  
**Date Extracted:** 07/31/24

**Duplicate Lab Control Sample Summary**  
**Organochlorine Pesticides and Polychlorinated Biphenyls**

**Analysis Method:** 608.3  
**Prep Method:** EPA 3520C

**Units:** ug/L  
**Basis:** NA  
**Analysis Lot:** 850415

**Lab Control Sample**  
**KQ2411794-04**

**Duplicate Lab Control Sample**  
**KQ2411794-05**

Analyte Name	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Aroclor 1016	0.271	0.500	54	0.303	0.500	61	50-140	11	36
Aroclor 1260	0.222	0.500	44	0.259	0.500	52	8-140	15	38

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QA/QC Report

**Client:** Specialty Analytical  
**Project:** 2407267  
**Sample Matrix:** Water

**Service Request:** K2407848  
**Date Analyzed:** NA  
**Date Extracted:**

**Lab Control Sample Summary**  
**Organochlorine Pesticides and Polychlorinated Biphenyls**

**Sample Name:**  
**Lab Code:**  
**Analysis Method:** 608.3  
**Prep Method:** None

**Instrument ID:**  
**File ID:**  
**Analysis Lot:**850125

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Performance Evaluation	KQ2412350-01	J:\GC33\DATA\080724\0807F047.D\	08/08/24 12:42
Performance Evaluation	KQ2412482-01	J:\GC33\DATA\081324\0813F003.D\	08/13/24 14:30

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QA/QC Report

**Client:** Specialty Analytical  
**Project:** 2407267  
**Sample Matrix:** Water

**Service Request:** K2407848  
**Date Analyzed:** 08/13/24 19:23  
**Date Extracted:** 07/31/24

**Lab Control Sample Summary**  
**Organochlorine Pesticides and Polychlorinated Biphenyls**

**Sample Name:** Lab Control Sample  
**Lab Code:** KQ2411794-04  
**Analysis Method:** 608.3  
**Prep Method:** EPA 3520C

**Instrument ID:** K-GC-33  
**File ID:** J:\GC33\DATA\081324\0813F012.D\  
**Analysis Lot:** 850125,850415  
**Extraction Lot:** 442446

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Outfall 001B	K2407848-001	J:\GC33\DATA\080724\0807F055.D\	08/08/24 17:02
Method Blank	KQ2411794-01	J:\GC33\DATA\081324\0813F009.D\	08/13/24 17:45
Duplicate Lab Control Sample	KQ2411794-03	J:\GC33\DATA\081324\0813F011.D\	08/13/24 18:50
Duplicate Lab Control Sample	KQ2411794-05	J:\GC33\DATA\081324\0813F013.D\	08/13/24 19:55





## Semi-Volatile Organic Compounds by GC/MS

**ALS Environmental—Kelso Laboratory**  
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Analytical Report

**Client:** Specialty Analytical  
**Project:** 2407267  
**Sample Matrix:** Water

**Service Request:** K2407848  
**Date Collected:** 07/30/24 09:30  
**Date Received:** 07/30/24 14:09

**Sample Name:** Outfall 001B  
**Lab Code:** K2407848-001

**Units:** ug/L  
**Basis:** NA

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 625.1  
**Prep Method:** EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Acenaphthene	ND U	4.0	5	08/08/24 00:36	7/31/24	
Acenaphthylene	ND U	4.0	5	08/08/24 00:36	7/31/24	
Anthracene	ND U	4.0	5	08/08/24 00:36	7/31/24	
Benz(a)anthracene	ND U	4.0	5	08/08/24 00:36	7/31/24	
Benzidine	ND U	10	5	08/08/24 00:36	7/31/24	
Benzo(b)fluoranthene	ND UX	4.0	5	08/08/24 00:36	7/31/24	
Benzo(k)fluoranthene	ND U	4.0	5	08/08/24 00:36	7/31/24	
Benzo(g,h,i)perylene	ND U	4.0	5	08/08/24 00:36	7/31/24	
Benzo(a)pyrene	ND U	4.0	5	08/08/24 00:36	7/31/24	
Bis(2-chloroethyl) Ether	ND U	4.0	5	08/08/24 00:36	7/31/24	
Bis(2-ethylhexyl) Phthalate	14	4.0	5	08/08/24 00:36	7/31/24	
Bis(2-chloroethoxy)methane	ND U	4.0	5	08/08/24 00:36	7/31/24	
4-Bromophenyl Phenyl Ether	ND U	4.0	5	08/08/24 00:36	7/31/24	
Butyl Benzyl Phthalate	ND U	4.0	5	08/08/24 00:36	7/31/24	
4-Chloro-3-methylphenol	ND U	4.0	5	08/08/24 00:36	7/31/24	
2-Chloronaphthalene	ND U	4.0	5	08/08/24 00:36	7/31/24	*
2-Chlorophenol	ND U	4.0	5	08/08/24 00:36	7/31/24	
4-Chlorophenyl Phenyl Ether	ND U	4.0	5	08/08/24 00:36	7/31/24	
Chrysene	ND U	4.0	5	08/08/24 00:36	7/31/24	
Di-n-butyl Phthalate	ND U	4.0	5	08/08/24 00:36	7/31/24	
Di-n-octyl Phthalate	ND U	4.0	5	08/08/24 00:36	7/31/24	
Dibenz(a,h)acridine	ND U	10	5	08/08/24 00:36	7/31/24	
Dibenz(a,j)acridine	ND U	10	5	08/08/24 00:36	7/31/24	
Dibenz(a,h)anthracene	ND U	4.0	5	08/08/24 00:36	7/31/24	
Dibenzo(a,e)pyrene	ND U	10	5	08/09/24 13:07	7/31/24	
Dibenzo(a,h)pyrene	ND U	10	5	08/09/24 13:07	7/31/24	
Dibenzo(a,i)pyrene	ND U	10	5	08/09/24 13:07	7/31/24	
3,3'-Dichlorobenzidine	ND U	4.0	5	08/08/24 00:36	7/31/24	
2,4-Dichlorophenol	ND U	4.0	5	08/08/24 00:36	7/31/24	
Diethyl Phthalate	ND U	4.0	5	08/08/24 00:36	7/31/24	
Dimethyl Phthalate	ND U	4.0	5	08/08/24 00:36	7/31/24	
2,4-Dimethylphenol	ND U	4.0	5	08/08/24 00:36	7/31/24	
4,6-Dinitro-2-methylphenol	ND U	10	5	08/08/24 00:36	7/31/24	
2,4-Dinitrophenol	ND U	20	5	08/08/24 00:36	7/31/24	
2,4-Dinitrotoluene	ND U	4.0	5	08/08/24 00:36	7/31/24	
2,6-Dinitrotoluene	ND U	4.0	5	08/08/24 00:36	7/31/24	
1,2-Diphenylhydrazine	ND U	4.0	5	08/08/24 00:36	7/31/24	
Fluoranthene	ND U	4.0	5	08/08/24 00:36	7/31/24	
Fluorene	ND U	4.0	5	08/08/24 00:36	7/31/24	*
Hexachlorobenzene	ND U	4.0	5	08/08/24 00:36	7/31/24	
Hexachlorobutadiene	ND U	4.0	5	08/08/24 00:36	7/31/24	

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Analytical Report

**Client:** Specialty Analytical  
**Project:** 2407267  
**Sample Matrix:** Water

**Service Request:** K2407848  
**Date Collected:** 07/30/24 09:30  
**Date Received:** 07/30/24 14:09

**Sample Name:** Outfall 001B  
**Lab Code:** K2407848-001

**Units:** ug/L  
**Basis:** NA

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 625.1  
**Prep Method:** EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Hexachlorocyclopentadiene	ND U	20	5	08/08/24 00:36	7/31/24	
Hexachloroethane	ND U	4.0	5	08/08/24 00:36	7/31/24	
Indeno(1,2,3-cd)pyrene	ND UX	4.0	5	08/08/24 00:36	7/31/24	
Isophorone	ND U	4.0	5	08/08/24 00:36	7/31/24	
3-Methylcholanthrene	ND U	10	5	08/08/24 00:36	7/31/24	
Naphthalene	ND U	4.0	5	08/08/24 00:36	7/31/24	
Nitrobenzene	ND U	4.0	5	08/08/24 00:36	7/31/24	
2-Nitrophenol	ND U	4.0	5	08/08/24 00:36	7/31/24	
4-Nitrophenol	ND U	10	5	08/08/24 00:36	7/31/24	
N-Nitrosodi-n-propylamine	ND U	4.0	5	08/08/24 00:36	7/31/24	
N-Nitrosodimethylamine	ND U	4.0	5	08/08/24 00:36	7/31/24	
N-Nitrosodiphenylamine	ND U	4.0	5	08/08/24 00:36	7/31/24	
2,2'-Oxybis(1-chloropropane)	ND U	4.0	5	08/08/24 00:36	7/31/24	*
Pentachlorophenol (PCP)	ND U	10	5	08/08/24 00:36	7/31/24	
Perylene	ND U	4.0	5	08/08/24 00:36	7/31/24	
Phenanthrene	ND U	4.0	5	08/08/24 00:36	7/31/24	*
Phenol	12	4.0	5	08/08/24 00:36	7/31/24	
Pyrene	ND U	4.0	5	08/08/24 00:36	7/31/24	*
1,2,4-Trichlorobenzene	ND U	4.0	5	08/08/24 00:36	7/31/24	
2,4,6-Trichlorophenol	ND U	4.0	5	08/08/24 00:36	7/31/24	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	53	38 - 105	08/08/24 00:36	
2-Fluorophenol	49	17 - 101	08/08/24 00:36	
Nitrobenzene-d5	68	15 - 314	08/08/24 00:36	
Phenol-d6	39	8 - 424	08/08/24 00:36	
p-Terphenyl-d14	40	35 - 133	08/08/24 00:36	
2,4,6-Tribromophenol	91	12 - 129	08/08/24 00:36	

**Analyte Comments:**

Benzo(b)fluoranthene      This analyte cannot be separated from Benzo(j)fluoranthene.

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Analytical Report

**Client:** Specialty Analytical  
**Project:** 2407267  
**Sample Matrix:** Water

**Service Request:** K2407848  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Method Blank  
**Lab Code:** KQ2411802-01

**Units:** ug/L  
**Basis:** NA

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 625.1  
**Prep Method:** EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Acenaphthene	ND U	0.80	1	08/07/24 16:13	7/31/24	
Acenaphthylene	ND U	0.80	1	08/07/24 16:13	7/31/24	
Anthracene	ND U	0.80	1	08/07/24 16:13	7/31/24	
Benz(a)anthracene	ND U	0.80	1	08/07/24 16:13	7/31/24	
Benzidine	ND U	2.0	1	08/07/24 16:13	7/31/24	
Benzo(b)fluoranthene	ND U	0.80	1	08/07/24 16:13	7/31/24	
Benzo(k)fluoranthene	ND U	0.80	1	08/07/24 16:13	7/31/24	
Benzo(g,h,i)perylene	ND U	0.80	1	08/07/24 16:13	7/31/24	
Benzo(a)pyrene	ND U	0.80	1	08/07/24 16:13	7/31/24	
Bis(2-chloroethyl) Ether	ND U	0.80	1	08/07/24 16:13	7/31/24	
Bis(2-ethylhexyl) Phthalate	ND U	0.80	1	08/07/24 16:13	7/31/24	
Bis(2-chloroethoxy)methane	ND U	0.80	1	08/07/24 16:13	7/31/24	
4-Bromophenyl Phenyl Ether	ND U	0.80	1	08/07/24 16:13	7/31/24	
Butyl Benzyl Phthalate	ND U	0.80	1	08/07/24 16:13	7/31/24	
4-Chloro-3-methylphenol	ND U	0.80	1	08/07/24 16:13	7/31/24	
2-Chloronaphthalene	ND U	0.80	1	08/07/24 16:13	7/31/24	
2-Chlorophenol	ND U	0.80	1	08/07/24 16:13	7/31/24	
4-Chlorophenyl Phenyl Ether	ND U	0.80	1	08/07/24 16:13	7/31/24	
Chrysene	ND U	0.80	1	08/07/24 16:13	7/31/24	
Di-n-butyl Phthalate	ND U	0.80	1	08/07/24 16:13	7/31/24	
Di-n-octyl Phthalate	ND U	0.80	1	08/07/24 16:13	7/31/24	
Dibenz(a,h)acridine	ND U	2.0	1	08/07/24 16:13	7/31/24	
Dibenz(a,j)acridine	ND U	2.0	1	08/07/24 16:13	7/31/24	
Dibenz(a,h)anthracene	ND U	0.80	1	08/07/24 16:13	7/31/24	
Dibenzo(a,e)pyrene	ND U	2.0	1	08/09/24 12:41	7/31/24	
Dibenzo(a,h)pyrene	ND U	2.0	1	08/09/24 12:41	7/31/24	
Dibenzo(a,i)pyrene	ND U	2.0	1	08/09/24 12:41	7/31/24	
3,3'-Dichlorobenzidine	ND U	0.80	1	08/07/24 16:13	7/31/24	
2,4-Dichlorophenol	ND U	0.80	1	08/07/24 16:13	7/31/24	
Diethyl Phthalate	ND U	0.80	1	08/07/24 16:13	7/31/24	
Dimethyl Phthalate	ND U	0.80	1	08/07/24 16:13	7/31/24	
2,4-Dimethylphenol	ND U	0.80	1	08/07/24 16:13	7/31/24	
4,6-Dinitro-2-methylphenol	ND U	2.0	1	08/07/24 16:13	7/31/24	
2,4-Dinitrophenol	ND U	4.0	1	08/07/24 16:13	7/31/24	
2,4-Dinitrotoluene	ND U	0.80	1	08/07/24 16:13	7/31/24	
2,6-Dinitrotoluene	ND U	0.80	1	08/07/24 16:13	7/31/24	
1,2-Diphenylhydrazine	ND U	0.80	1	08/07/24 16:13	7/31/24	
Fluoranthene	ND U	0.80	1	08/07/24 16:13	7/31/24	
Fluorene	ND U	0.80	1	08/07/24 16:13	7/31/24	
Hexachlorobenzene	ND U	0.80	1	08/07/24 16:13	7/31/24	
Hexachlorobutadiene	ND U	0.80	1	08/07/24 16:13	7/31/24	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Specialty Analytical  
**Project:** 2407267  
**Sample Matrix:** Water

**Service Request:** K2407848  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Method Blank  
**Lab Code:** KQ2411802-01

**Units:** ug/L  
**Basis:** NA

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 625.1  
**Prep Method:** EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Hexachlorocyclopentadiene	ND U	4.0	1	08/07/24 16:13	7/31/24	
Hexachloroethane	ND U	0.80	1	08/07/24 16:13	7/31/24	
Indeno(1,2,3-cd)pyrene	ND U	0.80	1	08/07/24 16:13	7/31/24	
Isophorone	ND U	0.80	1	08/07/24 16:13	7/31/24	
3-Methylcholanthrene	ND U	2.0	1	08/07/24 16:13	7/31/24	
Naphthalene	ND U	0.80	1	08/07/24 16:13	7/31/24	
Nitrobenzene	ND U	0.80	1	08/07/24 16:13	7/31/24	
2-Nitrophenol	ND U	0.80	1	08/07/24 16:13	7/31/24	
4-Nitrophenol	ND U	2.0	1	08/07/24 16:13	7/31/24	
N-Nitrosodi-n-propylamine	ND U	0.80	1	08/07/24 16:13	7/31/24	
N-Nitrosodimethylamine	ND U	0.80	1	08/07/24 16:13	7/31/24	
N-Nitrosodiphenylamine	ND U	0.80	1	08/07/24 16:13	7/31/24	
2,2'-Oxybis(1-chloropropane)	ND U	0.80	1	08/07/24 16:13	7/31/24	
Pentachlorophenol (PCP)	ND U	2.0	1	08/07/24 16:13	7/31/24	
Perylene	ND U	0.80	1	08/07/24 16:13	7/31/24	
Phenanthrene	ND U	0.80	1	08/07/24 16:13	7/31/24	
Phenol	ND U	0.80	1	08/07/24 16:13	7/31/24	
Pyrene	ND U	0.80	1	08/07/24 16:13	7/31/24	
1,2,4-Trichlorobenzene	ND U	0.80	1	08/07/24 16:13	7/31/24	
2,4,6-Trichlorophenol	ND U	0.80	1	08/07/24 16:13	7/31/24	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	34	38 - 105	08/07/24 16:13	*
2-Fluorophenol	27	17 - 101	08/07/24 16:13	
Nitrobenzene-d5	34	15 - 314	08/07/24 16:13	
Phenol-d6	21	8 - 424	08/07/24 16:13	
p-Terphenyl-d14	42	35 - 133	08/07/24 16:13	
2,4,6-Tribromophenol	36	12 - 129	08/07/24 16:13	

**Analyte Comments:**

Benzo(b)fluoranthene      This analyte cannot be separated from Benzo(j)fluoranthene.

**Client:** Specialty Analytical  
**Project:** 2407267  
**Sample Matrix:** Water

**Service Request:** K2407848

**SURROGATE RECOVERY SUMMARY**  
**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 625.1  
**Extraction Method:** EPA 3510C

Sample Name	Lab Code	2,4,6-Tribromophenol	2-Fluorobiphenyl	2-Fluorophenol
		12 - 129	38 - 105	17 - 101
Outfall 001B	K2407848-001	91	53	49
Method Blank	KQ2411802-01	36	34 *	27
Lab Control Sample	KQ2411802-02	76	61	52
Duplicate Lab Control Sample	KQ2411802-03	74	59	53

**Client:** Specialty Analytical  
**Project:** 2407267  
**Sample Matrix:** Water

**Service Request:** K2407848

**SURROGATE RECOVERY SUMMARY**  
**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 625.1  
**Extraction Method:** EPA 3510C

Sample Name	Lab Code	Nitrobenzene-d5	Phenol-d6	p-Terphenyl-d14
		15 - 314	8 - 424	35 - 133
Outfall 001B	K2407848-001	68	39	40
Method Blank	KQ2411802-01	34	21	42
Lab Control Sample	KQ2411802-02	62	41	64
Duplicate Lab Control Sample	KQ2411802-03	65	41	59

**ALS Group USA, Corp.**  
dba ALS Environmental

QA/QC Report

**Client:** Specialty Analytical  
**Project:** 2407267  
**Sample Matrix:** Water

**Service Request:** K2407848  
**Date Analyzed:** 08/07/24  
**Date Extracted:** 07/31/24

**Duplicate Lab Control Sample Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 625.1  
**Prep Method:** EPA 3510C

**Units:** ug/L  
**Basis:** NA  
**Analysis Lot:** 850135

Lab Control Sample KQ2411802-02				Duplicate Lab Control Sample KQ2411802-03					
Analyte Name	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	12.7	20.0	64	13.0	20.0	65	57-130	2	30
1,2-Diphenylhydrazine	12.4	20.0	62	12.6	20.0	63	32-134	2	30
2,2'-Oxybis(1-chloropropane)	10.5	20.0	53 *	11.1	20.0	56 *	63-139	6	30
2,4,6-Trichlorophenol	11.8	20.0	59	12.5	20.0	63	52-129	6	30
2,4-Dichlorophenol	13.8	20.0	69	14.0	20.0	70	53-122	1	30
2,4-Dimethylphenol	12.6	20.0	63	13.0	20.0	65	42-120	3	30
2,4-Dinitrophenol	11.2	20.0	56	11.5	20.0	57	0.1-173	3	30
2,4-Dinitrotoluene	16.2	20.0	81	16.6	20.0	83	48-127	3	30
2,6-Dinitrotoluene	15.7	20.0	78	16.1	20.0	81	68-137	3	30
2-Chloronaphthalene	12.7	20.0	64 *	13.2	20.0	66	65-120	4	30
2-Chlorophenol	12.9	20.0	65	13.7	20.0	68	36-120	6	30
2-Nitrophenol	15.3	20.0	76	16.0	20.0	80	45-167	5	30
3,3'-Dichlorobenzidine	18.4	20.0	92	20.3	20.0	102	8-213	10	30
4,6-Dinitro-2-methylphenol	16.8	20.0	84	17.5	20.0	88	53-130	4	30
4-Bromophenyl Phenyl Ether	13.3	20.0	66	13.8	20.0	69	65-120	4	30
4-Chloro-3-methylphenol	12.3	20.0	62	12.9	20.0	65	41-128	5	30
4-Chlorophenyl Phenyl Ether	13.4	20.0	67	14.0	20.0	70	38-145	4	30
4-Nitrophenol	8.52	20.0	43	8.63	20.0	43	13-129	1	30
Acenaphthene	12.8	20.0	64	13.1	20.0	65	60-132	3	30
Acenaphthylene	13.3	20.0	66	13.9	20.0	69	54-126	5	30
Anthracene	13.1	20.0	65	13.6	20.0	68	43-120	4	30
Benz(a)anthracene	12.9	20.0	64	12.9	20.0	64	42-133	<1	30
Benzo(a)pyrene	13.3	20.0	67	13.5	20.0	67	32-148	1	30
Benzo(b)fluoranthene	13.2	20.0	66	12.7	20.0	64	42-140	4	30
Benzo(g,h,i)perylene	14.8	20.0	74	15.0	20.0	75	0.1-195	2	30
Benzo(k)fluoranthene	13.7	20.0	68	14.7	20.0	73	25-146	7	30
Bis(2-chloroethoxy)methane	12.4	20.0	62	12.6	20.0	63	49-165	2	30
Bis(2-chloroethyl) Ether	12.4	20.0	62	13.4	20.0	67	43-126	7	30
Bis(2-ethylhexyl) Phthalate	12.2	20.0	61	12.5	20.0	62	29-137	3	30
Butyl Benzyl Phthalate	14.0	20.0	70	14.6	20.0	73	0.1-140	4	30
Chrysene	12.6	20.0	63	13.4	20.0	67	44-140	6	30
Dibenz(a,h)anthracene	12.7	20.0	63	12.9	20.0	64	0.1-200	1	30
Diethyl Phthalate	14.1	20.0	70	13.9	20.0	70	0.1-120	<1	30
Dimethyl Phthalate	13.5	20.0	67	13.6	20.0	68	0.1-120	<1	30
Di-n-butyl Phthalate	12.6	20.0	63	13.0	20.0	65	8-120	3	30
Di-n-octyl Phthalate	12.4	20.0	62	12.7	20.0	63	19-132	2	30
Fluoranthene	12.7	20.0	63	12.6	20.0	63	43-121	<1	30
Fluorene	13.5	20.0	67 *	13.8	20.0	69 *	70-120	3	30
Hexachlorobenzene	13.3	20.0	66	13.6	20.0	68	8-142	2	30
Hexachlorobutadiene	13.2	20.0	66	13.2	20.0	66	38-120	<1	30
Hexachlorocyclopentadiene	7.82	20.0	39	8.46	20.0	42	3-80	8	30



ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Specialty Analytical  
**Project:** 2407267  
**Sample Matrix:** Water

**Service Request:** K2407848  
**Date Analyzed:** 08/07/24  
**Date Extracted:** 07/31/24

**Duplicate Lab Control Sample Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 625.1  
**Prep Method:** EPA 3510C

**Units:** ug/L  
**Basis:** NA  
**Analysis Lot:** 850135

Lab Control Sample KQ2411802-02				Duplicate Lab Control Sample KQ2411802-03					
Analyte Name	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Hexachloroethane	11.7	20.0	59	12.6	20.0	63	55-120	7	30
Indeno(1,2,3-cd)pyrene	11.8	20.0	59	12.2	20.0	61	0.1-151	3	30
Isophorone	11.5	20.0	58	12.1	20.0	60	47-180	5	30
Naphthalene	12.6	20.0	63	12.8	20.0	64	36-120	2	30
Nitrobenzene	12.5	20.0	62	13.4	20.0	67	54-158	7	30
N-Nitrosodimethylamine	9.55	20.0	48	9.99	20.0	50	0.1-223	5	30
N-Nitrosodi-n-propylamine	11.0	20.0	55	11.9	20.0	59	14-198	7	30
N-Nitrosodiphenylamine	14.4	20.0	72	14.8	20.0	74	37-98	3	30
Pentachlorophenol (PCP)	9.02	20.0	45	9.15	20.0	46	38-152	1	30
Phenanthrene	12.8	20.0	64 *	13.2	20.0	66	65-120	3	30
Phenol	8.27	20.0	41	8.42	20.0	42	17-120	2	30
Pyrene	11.6	20.0	58 *	11.8	20.0	59 *	70-120	2	30

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Specialty Analytical  
**Project:** 2407267  
**Sample Matrix:** Water

**Service Request:** K2407848  
**Date Analyzed:** 08/07/24  
**Date Extracted:** 07/31/24

**Duplicate Lab Control Sample Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 625.1  
**Prep Method:** EPA 3510C

**Units:** ug/L  
**Basis:** NA  
**Analysis Lot:** 850163

Analyte Name	Lab Control Sample			Duplicate Lab Control Sample			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Benzidine	3.92	40.0	10	4.40	40.0	11	0.1-140	12	30

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Specialty Analytical  
**Project:** 2407267  
**Sample Matrix:** Water

**Service Request:** K2407848  
**Date Analyzed:** 08/07/24 18:25  
**Date Extracted:** 07/31/24

**Lab Control Sample Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Sample Name:** Lab Control Sample  
**Lab Code:** KQ2411802-02  
**Analysis Method:** 625.1  
**Prep Method:** EPA 3510C

**Instrument ID:** K-MS-48  
**File ID:** J:\MS48\DATA\080724\0807F017.D\  
**Analysis Lot:** 850135,850163,850191  
**Extraction Lot:** 442453

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	KQ2411802-01	J:\MS48\DATA\080724\0807F011.D\	08/07/24 16:13
Method Blank	KQ2411802-01	J:\MS48\DATA\080724_BENZIDINE\0807F011.D\	08/07/24 16:13
Duplicate Lab Control Sample	KQ2411802-03	J:\MS48\DATA\080724\0807F018.D\	08/07/24 18:47
Duplicate Lab Control Sample	KQ2411802-03	J:\MS48\DATA\080724_BENZIDINE\0807F018.D\	08/07/24 18:47
Outfall 001B	K2407848-001	J:\MS48\DATA\080724\0807F034.D\	08/08/24 00:36
Outfall 001B	K2407848-001	J:\MS48\DATA\080724_BENZIDINE\0807F034.D\	08/08/24 00:36
Method Blank	KQ2411802-01	J:\MS48\DATA\080924\0809F003.D\	08/09/24 12:41
Outfall 001B	K2407848-001	J:\MS48\DATA\080924\0809F004.D\	08/09/24 13:07



August 27, 2024

**Enthalpy Analytical - El Dorado Hills**  
**Work Order No. 2408030**

Ms. Mandy Wehe  
Specialty Analytical  
11711 SE Capps Rd, Ste B  
Clackamas, OR 97015

Dear Ms. Wehe,

Enclosed are the results for the sample set received at Enthalpy Analytical - EDH on August 02, 2024 under your Project Name '2407267'.

Enthalpy Analytical - EDH is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at [kathy.zipp@enthalpy.com](mailto:kathy.zipp@enthalpy.com).

Thank you for choosing Enthalpy Analytical - EDH as part of your analytical support team.

Sincerely,

A handwritten signature in blue ink that reads 'Kathy Zipp'.

Kathy Zipp  
Project Manager

*Enthalpy Analytical - EDH certifies that the report herein meets all the requirements set forth by NELAP for those applicable test methods. Results relate only to the samples as received by the laboratory. This report should not be reproduced except in full without the written approval of Enthalpy Analytical - EDH.*

## **Enthalpy Analytical - EDH Order No. 2408030**

### **Case Narrative**

#### **Sample Condition on Receipt:**

One wastewater sample was received and stored securely in accordance with Enthalpy Analytical - EDH standard operating procedures and EPA methodology. The sample was received in good condition and within the method temperature requirements.

#### **Analytical Notes:**

##### **EPA Method 1613B**

This sample was extracted and analyzed for 2,3,7,8-TCDD by EPA Method 1613B using a ZB-DIOXIN GC column.

##### **Holding Times**

The sample was extracted and analyzed within the method hold times.

##### **Quality Control**

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. The analyte was not detected in the Method Blank. The OPR recoveries were within the method acceptance criteria.

Labeled standard recoveries for all QC and field samples were within method acceptance criteria.

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## Sample Inventory Report

Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2408030-01	Outfall 001B	30-Jul-24 09:30	02-Aug-24 11:29	Amber Glass NM Bottle, 1L

## **ANALYTICAL RESULTS**



**Sample ID: Method Blank**
**EPA Method 1613B**
**Client Data**

Name: Specialty Analytical  
Project: 2407267  
Matrix: Aqueous

**Laboratory Data**

Lab Sample: B24H166-BLK1  
QC Batch: B24H166 Date Extracted: 17-Aug-24  
Sample Size: 1.00 L Column: ZB-DIOXIN

Analyte	Conc. (pg/L)	EDL	MDL	EMPC	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	ND	0.477	3.92			23-Aug-24 20:27	1
Labeled Standards	Type	% Recovery		Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	93.5		31 - 137		23-Aug-24 20:27	1
37Cl-2,3,7,8-TCDD	CRS	98.5		42 - 164		23-Aug-24 20:27	1

EDL - Sample specific estimated detection limit

EMPC - Estimated maximum possible concentration

MDL - Method Detection Limit

**Sample ID: OPR**
**EPA Method 1613B**
**Client Data**

Name: Specialty Analytical  
Project: 2407267  
Matrix: Aqueous

**Laboratory Data**

Lab Sample: B24H166-BS1  
QC Batch: B24H166      Date Extracted: 17-Aug-24 20:22  
Sample Size: 1.00 L      Column: ZB-DIOXIN

Analyte	Amt Found (pg/L)	Spike Amt	% Recovery	Limits	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	186	200	93.2	73 - 146		23-Aug-24 18:07	1
Labeled Standards	Type		% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS		104	25 - 141		23-Aug-24 18:07	1
37Cl-2,3,7,8-TCDD	CRS		110	37 - 158		23-Aug-24 18:07	1

**Sample ID: Outfall 001B**
**EPA Method 1613B**
**Client Data**

Name: Specialty Analytical  
 Project: 2407267  
 Matrix: Wastewater  
 Date Collected: 30-Jul-24 09:30

**Laboratory Data**

Lab Sample: 2408030-01      Date Received: 02-Aug-24 11:29  
 QC Batch: B24H166      Date Extracted: 17-Aug-24  
 Sample Size: 1.03 L      Column: ZB-DIOXIN

Analyte	Conc. (pg/L)	EDL	MDL	EMPC	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	ND	1.65	3.82			24-Aug-24 19:45	1
Labeled Standards	Type	% Recovery		Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	66.3		31 - 137		24-Aug-24 19:45	1
37Cl-2,3,7,8-TCDD	CRS	99.8		42 - 164		24-Aug-24 19:45	1

EDL - Sample specific estimated detection limit

EMPC - Estimated maximum possible concentration

MDL - Method Detection Limit

## DATA QUALIFIERS & ABBREVIATIONS

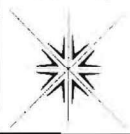
B	This compound was also detected in the method blank
Conc.	Concentration
CRS	Cleanup Recovery Standard
D	Dilution
DL	Detection Limit
E	The associated compound concentration exceeded the calibration range of the instrument
H	Recovery and/or RPD was outside laboratory acceptance limits
I	Chemical Interference
IS	Internal Standard
J	The amount detected is below the Reporting Limit/LOQ
LOD	Limit of Detection
LOQ	Limit of Quantitation
M	Estimated Maximum Possible Concentration (CA Region 2 projects only)
MDL	Method Detection Limit
NA	Not applicable
ND	Not Detected
OPR	Ongoing Precision and Recovery sample
P	The reported concentration may include contribution from chlorinated diphenyl ether(s).
Q	The ion transition ratio is outside of the acceptance criteria.
RL	Reporting Limit
RL	For 537.1, the reported RLs are the MRLs.
TEQ	Toxic Equivalency, sum of the toxic equivalency factors (TEF) multiplied by the sample concentrations.
TEQMax	TEQ calculation that uses the detection limit as the concentration for non-detects
TEQMin	TEQ calculation that uses zero as the concentration for non-detects
TEQRisk	TEQ calculation that uses ½ the detection limit as the concentration for non-detects
U	Not Detected (specific projects only)
*	See Cover Letter

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

### Enthalpy Analytical - EDH Certifications

Accrediting Authority	Certificate Number
Alaska Department of Environmental Conservation	17-013
Arkansas Department of Environmental Quality	21-023-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025	3091.01
Florida Department of Health	E87777
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2020018
Michigan Department of Environmental Quality	9932
Minnesota Department of Health	2211390
Nevada Division of Environmental Protection	CA00413
New Hampshire Environmental Accreditation Program	207721
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Ohio Environmental Protection Agency	87778
Oregon Laboratory Accreditation Program	4042-021
Texas Commission on Environmental Quality	T104704189-22-13
Vermont Department of Health	VT-4042
Virginia Department of General Services	11276
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

*Current certificates and lists of licensed parameters can be found at [Enthalpy.com/Resources/Accreditations](http://Enthalpy.com/Resources/Accreditations).*



9011 SE Jannsen Rd  
Clackamas, OR 97015  
Phone: 503-607-1331  
Fax: 503-607-1336

Specialty Analytical

## Chain of Custody Record

Date: 7/30/24 Page: 1 of 1

Laboratory Project No (internal):

Project Name: 2407267

Temperature on Receipt: °C

Client: Specialty Analytical

Project No. PO No.

Cooling: Shipped Via:

Address: 9011 SE Jannsen Rd

Client \_\_\_\_\_  
Collected by: \_\_\_\_\_

Custody Seal: Y / N Intact / Broken Cooler / Bottle

City State Zip: Clackamas, OR. 97015

State Collected: ☐ WA ☒ OTHER

MDL	TIER IV	EDD
-----	---------	-----

Telephone: 503-607-1331

Report To (PM): PM / Mandy Wehe

Sample Disposal: ☐ Return to client ☒ Disposal by lab (after 60 days)

AP Email: [mandy@specialtyanalytical.com](mailto:mandy@specialtyanalytical.com)

PM Email: [PM@specialtyanalytical.com](mailto:PM@specialtyanalytical.com) / [mandy@specialtyanalytical.com](mailto:mandy@specialtyanalytical.com)

[illegible]

\* Matrix: A = Air, AQ = Aqueous, L = Liquid, O = Oil, P = Product, S = Soil, SD = Sediment, G = Ground Water, GW = Waste Water, M = Miscellaneous

**Turn-around Time:** Standard (5-7 Business):

Standard (5-7 Business):	✓	3 Day:
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3 Day: ☐ 2 Day: ☐

**Next Day:**

Same Day:	
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Expedited turn-around requests should be coordinated in advance

Revised	Revised	Date/Time

Date/Time 1:00

Received

Date/Time

1

Relinquished	Date/Time

Received

Date/Time

Relinquished	Date/Time

Received

Date/Time

# CoC/Label Reconciliation Report WO# 2408030

LabNumber	CoC Sample ID	Sample Alias	Sample Date/Time	Container	BaseMatrix	Sample Comments
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2408030-01	A Outfall 001B	<input checked="" type="checkbox"/> A	30-Jul-24 09:30	Amber Glass NM Bottle, 1L	Aqueous	
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Checkmarks indicate that information on the CoC reconciled with the sample label.  
Any discrepancies are noted in the following columns.

	Yes	No	NA
Sample Container Intact?	<input checked="" type="checkbox"/>		
Sample Custody Seals Intact?			<input checked="" type="checkbox"/>
Adequate Sample Volume?	<input checked="" type="checkbox"/>		
Container Type Appropriate for Analysis(es)	<input checked="" type="checkbox"/>		

Comments: ☒ No back up volume.

Preservation Documented: Na2S2O3    Trizma    NH4CH3CO2    None    Other

Verified by/Date: JT 08/05/24  
Kr 08/05/24

<b>Specialty Analytical</b> www.specialtyanalytical.com 9011 SE Jannsen Rd Clackamas, OR 97015 Phone: 503-607-1331			<b>Chain of Custody Record</b> <hr/> Date: <u>7-30-24</u> Page: <u>1</u> of <u>1</u> Project Name: <u>Priority Pollutants</u> Project No: <u>Outfall 00</u> PO No: Collected by: <u>Eve Campos</u> State Collected: OR <input type="checkbox"/> WA <input checked="" type="checkbox"/> OTHER Report To (PM): PM Email:		
Client: Weyerhaeuser Longview Address: 3401 Industrial Way City, State, Zip: Longview, WA 98632 Telephone:			Laboratory Project No (Internal): <u>2407267</u> Temperature on Receipt: <u>22.6 °C</u> Cooling: <u>Refrigerated</u> Shipped Via: <u>SF</u> Custody Seal: <u>N</u> Intact / Broken Cooler / Bottle MDL <input type="checkbox"/> TIER IV <input type="checkbox"/> EDD <input type="checkbox"/> Sample Disposal: <input type="checkbox"/> Return to client <input checked="" type="checkbox"/> Disposal by lab (after 60 days)		

Sample Name	Sample Date	Sample Time	Sample Matrix*	# of Containers	Cyanide ***	Phenolics	624 Vols	625 Semi Vols	608 Pest/PDB	Dioxin Furan	PP13 metals (No Hg)	Cr6 (Hex Chrome)			
1 Outfall 00/B	7-30-24	930	WW	15	✓	✓	✓	✓	✓	✓	✓	✓			
2															
3															
4															
5															
6															
7															
8															
9															
10															

Please note if you know or suspect that your sample may contain hazardous materials or chemicals

Comments:

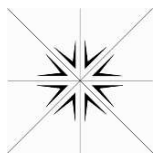
\*\*\*Total, WAD, & Available Cn

\*Matrix: A = Air, AQ = Aqueous, L=Liquid, O=Oil, P=Product, S=Soil, SD=Sediment, SL=Solid, W=Water, DW=Drinking Water, GW=Ground Water, SW=Storm Water, WW=Waste Water, M=Miscellaneous  
 Samples received after 3pm are considered as received the following business day

Turn-around Time: Standard : <input checked="" type="checkbox"/> Expedited turn-around requests should be coordinated in advance	
Date/Time	Date/Time
Relinquished x Eve Campos 7-30-24 1100	Received x [Signature] 7-30-24 1310
Date/Time	Date/Time
Relinquished x [Signature] 7-30-24 1510	Received x Anale 7-30-24 1610
Date/Time	Date/Time

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## Definition Only

WO#: 2407267  
Date: 8/27/2024

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### Definitions:

#### KEY TO FLAGS

A: This sample contains a Gasoline Range Organic not identified as a specific hydrocarbon product. The result was qualified against gasoline calibration standards.

A1: This sample contains a Diesel Range Organic not identified as a specific hydrocarbon product. The result was qualified against diesel calibration standards.

A2: This sample contains a Lube Oil Range Organic not identified as a specific hydrocarbon product. The result was qualified against lube oil calibration standards.

A3: The results was determined to be Non-Detect based on hydrocarbon pattern recognition. The product was carry-over from another hydrocarbon type.

A4: The product appears to be aged or degraded.

B: The blank exhibited a positive result greater than the reporting limit for this compound.

BC: Sample concentration is >10x positive result in blank. Data is considered acceptable.

CN: See Case Narrative.

E: Result exceeds the calibration range for this compound. The result should be considered an estimate.

F: The positive result for this hydrocarbon is due to single component contamination. The product does not match any hydrocarbon in the fuels library.

FS: Follow-up testing is suggested.

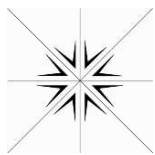
G: Result may be biased high due to biogenic interferences. Clean up is recommended.

H: Sample was analyzed outside recommended holding time.

HT: ☐ At client's request, samples was analyzed outside of recommended holding time.

HP: Sample was analyzed outside recommended holding time due to VOA having pH >2.

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### Definitions:

J: The results for this analyte is between the MDL and the PQL and should be considered an estimated concentration.

K: Diesel result is biased high due to amount of Oil contained in the sample.

L: Diesel result is biased high due to amount of Gasoline contained in the sample.

M: Oil result is biased high due to amount of Diesel contained in the sample.

N Gasoline result is biased high due to amount of Diesel contained in the sample.

MC: Sample concentration is greater than 4x the spiked value, the spiked value is considered insignificant.

MI Result is outside control limits due to matrix interference.

NH: Sample matrix is non-homogeneous

MSA: Value determined by Method of Standard Addition.

O: Laboratory Control Standard (LCS) exceeded laboratory control limits but meets CCV criteria. Data meets EPA requirements.

Q: Detection levels elevated due to sample matrix.

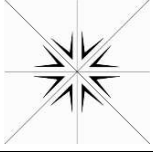
R: RPD control limits were exceeded

RF Duplicate failed due to result being at or near the method-reporting limit.

RP: Matrix spike values exceed established QC limits; post digestion spike is in control.

S: Recovery is outside control limits.

SC: CCV or LCS exceeded high recovery control limits, but associated samples are non-detect. Data meets EPA requirements.



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### **Definitions:**

SL: LCS exceeded recovery control limits, but associated MS/MSD passing. Data meets EPA requirements.

SV: CCV exceeded low recovery control limits. ND as reported evaluated using EPA method 8260D section 11.4.3.2

TA: Sample treated with ascorbic acid for the removal of thiocyanates.

TS: Sample treated with Sodium Sulfite for the removal of chlorine.