284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

DATA PACKAGE

METALS
GC SEMI-VOLATILES
SEMI-VOLATILE ORGANICS
VOLATILE ORGANICS

PROJECT NAME : SOUTH RIVER WM REPLACEMENT

CDM SMITH

110 Fieldcrest Ave

Raritan Center

Edison, NJ - 08837

Phone No: 732-225-7000

ORDER ID : Q2543

ATTENTION : Marcie Ann Encinas

Laboratory Certification ID # 20012

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Cover Page

Order ID : Q2543

Project ID : South River WM Replacement

Client : CDM Smith

Lab Sample Number	Client Sample Number
Q2543-01	TP-41
Q2543-02	TP-49
Q2543-03	TP-23
Q2543-04	TP-23-99

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____ Date: 7/23/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

CDM Smith
Project Name: South River WM Replacement
Project # N/A
Order ID # Q2543
Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 07/09/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_W were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868.The analysis of VOC-TCLVOA-10 was based on method 8260D.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries were met for all analysis.
The Internal Standards Areas were met for all analysis.
The Retention Times were met for all analysis.

The RPD were met for all analysis.
The Blank Spike met requirements for all compounds.
The Blank Spike Duplicate met requirements for all compounds.
The Blank analysis did not indicate the presence of lab contamination.
The %RSD is greater than 20% in the Initial Calibration method (82W063025S.M) for Methylene Chloride passing on Quadratic Regression.
The Continuous Calibration met the requirements.
The Tuning criteria met requirements.

E. Additional Comments:
Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

Trip Blank was not provided with this set of samples.

The soil samples results are based on a dry weight basis.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial

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Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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CASE NARRATIVE

CDM Smith
Project Name: South River WM Replacement
Project # N/A
Order ID # Q2543
Test Name: Gasoline Range Organics

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 07/09/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Gasoline Range Organics. This data package contains results for Gasoline Range Organics.

C. Analytical Techniques:
The analysis performed on instrument FID_B were done using GC column RTX502.2 which is 60 meters, 0.53mm ID, 3.0 um df, cat#10909.The analysis of Gasoline Range Organics was based on method 8015D.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries were met for all analysis.
The Retention Times were met for all analysis.
The RPD were met for all analysis.
The Blank Spike met requirements for all compounds.
The Blank Spike Duplicate met requirements for all compounds.
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements.
The Continuous Calibration met the requirements.

E. Additional Comments:
The soil samples results are based on a dry weight basis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed

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CASE NARRATIVE

CDM Smith
Project Name: South River WM Replacement
Project # N/A
Order ID # Q2543
Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 07/09/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: SVOC-TCL BNA -20. This data package contains results for SVOC-TCL BNA -20.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_M using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGA. The samples were analyzed on instrument BNA_P using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGA. The analysis of SVOC-TCL BNA -20 was based on method 8270E and extraction was done based on method 3541.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries were met for all analysis.
The Internal Standards Areas were met for all analysis.
The Retention Times were met for all analysis.
The MS recoveries met the requirements for all compounds.
The MSD recoveries met the requirements for all compounds.
The RPD were met for all analysis.

The Blank Spike for {PB168787BS} with File ID: BP025140.D met requirements for all compounds except for 2,4,5-Trichlorophenol[100%], 2,4,6-Trichlorophenol[106%], 4,6-Dinitro-2-methylphenol[118%], Butylbenzylphthalate[106%], Hexachlorobenzene[100%], Hexachlorobutadiene[100%], Hexachlorocyclopentadiene[242%] and Indeno(1,2,3-cd)pyrene[106%],are slightly biased failing high but no positive hit in associate samples therefore no corrective action taken and Benzo(a)pyrene[106%], is Failing high but Associated sample having hit below CRQL, therefore no corrective action taken.

The Blank analysis did not indicate the presence of lab contamination.

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The % RSD is greater than 20% in the Initial Calibration (8270-BM070825.M) for 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 4-Nitroaniline and 4,6-Dinitro-2-methylphenol these compounds are passing on Linear Regression.

The % RSD is greater than 20% in the Initial Calibration (8270-BP070325.M) for 2-Nitrophenol,2-Nitroaniline,2,4-Dinitrophenol,2,4-Dinitrotoluene,4,6-Dinitro-2-methylphenol,Butylbenzylphthalate,Di-n-octyl phthalate,these compounds are passing on LinearRegression.

The Continuous Calibration File ID BP025138.D met the requirements except for 2,4-Dinitrophenol,4,6-Dinitro-2-methylphenol., Hexachlorocyclopentadiene, 3,3-Dichlorobenzidine, are biased high therefore no corrective action was taken.

The Tuning criteria met requirements.

E. Additional Comments:
The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

The soil samples results are based on a dry weight basis.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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CASE NARRATIVE

CDM Smith
Project Name: South River WM Replacement
Project # N/A
Order ID # Q2543
Test Name: Pesticide-TCL

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 07/09/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Pesticide-TCL. This data package contains results for Pesticide-TCL.

C. Analytical Techniques:
The analysis was performed on instrument ECD_D. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0. 5 um df,: Catalog # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 7HMG017- 11.The analysis of Pesticide-TCLs was based on method 8081B and extraction was done based on method 3541.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries were met for all analysis.
The Retention Times were met for all analysis.
The MS recoveries met the requirements for all compounds.
The MSD recoveries met the requirements for all compounds .
The RPD were met for all analysis.
The Blank Spike met requirements for all compounds.
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements.
The Continuous Calibration met the requirements.

E. Additional Comments:
The soil samples results are based on a dry weight basis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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CASE NARRATIVE

CDM Smith
Project Name: South River WM Replacement
Project # N/A
Order ID # Q2543
Test Name: PCB

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 07/09/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: PCB. This data package contains results for PCB.

C. Analytical Techniques:
The analyses were performed on instrument GCECD_P. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11.The analyses were performed on instrument GCECD_O. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11.The analysis of PCBs was based on method 8082A and extraction was done based on method 3541.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds .
The MSD recoveries met the acceptable requirements .
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .

The Continuous Calibration File ID PP073705.D met the requirements except for Aroclor-1260(Peak-02) is failing in 1st column, however it is passed in 2nd column therefore no corrective action was taken.

The Continuous Calibration File ID PO112196.D met the requirements except for Decachlorobiphenyl is failing in 1st column, however it is passed in 2nd column therefore no corrective action was taken.

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E. Additional Comments:
The soil samples results are based on a dry weight basis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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CASE NARRATIVE

CDM Smith
Project Name: South River WM Replacement
Project # N/A
Order ID # Q2543
Test Name: Herbicide

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 07/09/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Herbicide. This data package contains results for Herbicide.

C. Analytical Techniques:
The analysis was performed on instrument ECD_S. The front column is RTX-CLPesticides which is 30 meters, 0.32 mm ID, 0. 5 um df,: Catalog # 11139. The rear column is RTX-CLPesticides2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 11324. The analysis of Herbicides was based on method 8151A and extraction was done based on method 3541.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries were met for all analysis.
The Retention Times were met for all analysis.

The MS {Q2529-10MS} with File ID: PS031145.D recoveries met the requirements for all compounds except for [Dinoseb(1)0% - Dinoseb(2)0%] due to matrix interference.

The MSD {Q2529-10MSD} with File ID: PS031146.D recoveries met the requirements for all compounds except for [Dinoseb(1)0% - Dinoseb(2)0%] due to matrix interference.

The RPD were met for all analysis.
The Blank Spike met requirements for all compounds.
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements.
The Continuous Calibration met the requirements.

E. Additional Comments:
The soil samples results are based on a dry weight basis.

F. Manual Integration Comments:

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Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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CASE NARRATIVE

CDM Smith
Project Name: South River WM Replacement
Project # N/A
Order ID # Q2543
Test Name: Diesel Range Organics

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 07/09/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Diesel Range Organics. This data package contains results for Diesel Range Organics.

C. Analytical Techniques:
The analysis were performed on instrument FID_G. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 13302.The analysis were performed on instrument FID_F. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 13302.The analysis of Diesel Range Organics was based on method 8015D and extraction was done based on method 3541.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries were met for all analysis.
The Retention Times were met for all analysis.
The MS recoveries met the requirements for all compounds.
The MSD recoveries met the requirements for all compounds.
The RPD were met for all analysis.
The Blank Spike met requirements for all compounds.
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements.
The Continuous Calibration met the requirements.

E. Additional Comments:
The soil samples results are based on a dry weight basis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed

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CASE NARRATIVE

CDM Smith
Project Name: South River WM Replacement
Project # N/A
Order ID # Q2543
Test Name: Mercury,Metals ICP-TAL

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 07/09/2025.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Diesel Range Organics, Gasoline Range Organics, Herbicide, Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SVOC-TCL BNA -20 and VOC-TCLVOA-10. This data package contains results for Mercury,Metals ICP-TAL.

C. Analytical Techniques:
The analysis of Metals ICP-TAL was based on method 6010D, digestion based on method 3050 (soils). The analysis and digestion of Mercury was based on method 7471B.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all compounds.
The Duplicate analysis met criteria for all compounds.
The Matrix Spike (OU4-TS-Grillo-OG-070925MS) analysis met criteria for all compounds except for Mercury due to sample matrix interference. The Matrix Spike (VNJ-245MS) analysis met criteria for all compounds except for Antimony due to Chemical Interference during Digestion Process.
The Matrix Spike Duplicate (OU4-TS-Grillo-OG-070925MSD) analysis met criteria for all compounds except for Mercury due to matrix interference. The Matrix Spike Duplicate (VNJ-245MSD) analysis met criteria for all compounds except for Antimony, Barium, Selenium and Vanadium due to Chemical Interference during Digestion Process.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met the acceptable requirements.

E. Additional Comments:
The Post Digest Spike (VNJ-245A) analysis met criteria for all compounds except for Barium due to unknown chemical interference of matrix with the addition of spike amount after digestion and before analysis; matrix has suppression effect during addition of spike.

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Signature_____

DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following " Results Qualifiers" are used:

J	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
U	Indicates the analyte was analyzed for, but not detected.
ND	Indicates the analyte was analyzed for, but not detected
E	Indicates the reported value is estimated because of the presence of interference
M	Indicates Duplicate injection precision not met.
N	Indicates the spiked sample recovery is not within control limits.
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).
*	Indicates that the duplicate analysis is not within control limits.
+	Indicates the correlation coefficient for the MSA is less than 0.995.
D	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
M	Method qualifiers **"P"** for ICP instrument **"PM"** for ICP when Microwave Digestion is used **"CV"** for Manual Cold Vapor AA **"AV"** for automated Cold Vapor AA **"CA"** for MIDI-Distillation Spectrophotometric **"AS"** for Semi –Automated Spectrophotometric **"C"** for Manual Spectrophotometric **"T"** for Titrimetric **"NR"** for analyte not required to be analyzed
OR	Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis.
Q	Indicates the LCS did not meet the control limits requirements
H	Sample Analysis Out Of Hold Time

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DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value**.** This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2543

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: SOHIL JODHANI **Date:** 07/23/2025

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LAB CHRONICLE

OrderID:	Q2543	**OrderDate:**	7/9/2025 12:26:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	O42,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2543-01	**TP-41**	**SOIL**			**07/08/25**			**07/09/25**
			VOC-TCLVOA-10	8260D			07/10/25	
Q2543-02	**TP-49**	**SOIL**			**07/09/25**			**07/09/25**
			VOC-TCLVOA-10	8260D			07/10/25	
Q2543-03	**TP-23**	**SOIL**			**07/09/25**			**07/09/25**
			VOC-TCLVOA-10	8260D			07/10/25	
Q2543-04	**TP-23-99**	**SOIL**			**07/09/25**			**07/09/25**
			VOC-TCLVOA-10	8260D			07/10/25	

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: Q2543

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID:	**TP-41**								
Q2543-01	TP-41	SOIL	Acetone		77.9		3.60	19.2	ug/Kg
Q2543-01	TP-41	SOIL	Carbon Disulfide		1.10	J	0.81	3.80	ug/Kg
Q2543-01	TP-41	SOIL	2-Butanone		22.2		5.00	19.2	ug/Kg
Q2543-01	TP-41	SOIL	Methylcyclohexane		4.40		0.70	3.80	ug/Kg
Q2543-01	TP-41	SOIL	m/p-Xylenes		4.20	J	0.95	7.70	ug/Kg
			Total Voc :		110				
Q2543-01	TP-41	SOIL	2-Ethyl-oxetane	*	4.30	J	0	0	ug/Kg
			Total Tics :		4.30				
			Total Concentration:		114				
Client ID:	**TP-49**								
Q2543-02	TP-49	SOIL	Acetone		14.8	J	4.10	21.5	ug/Kg
			Total Voc :		14.8				
			Total Concentration:		14.8				
Client ID:	**TP-23**								
Q2543-03	TP-23	SOIL	Acetone		6.90	J	4.30	22.5	ug/Kg
Q2543-03	TP-23	SOIL	Methylene Chloride		5.90	J	3.20	9.00	ug/Kg
			Total Voc :		12.8				
Q2543-03	TP-23	SOIL	n-Hexane	*	4.70	J	0	0	ug/Kg
			Total Tics :		4.70				
			Total Concentration:		17.5				
Client ID:	**TP-23-99**								
Q2543-04	TP-23-99	SOIL	Acetone		7.50	J	5.30	27.8	ug/Kg
			Total Voc :		7.50				
			Total Concentration:		7.50				

SAMPLE DATA

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-41	SDG No.:	Q2543
Lab Sample ID:	Q2543-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	82
Sample Wt/Vol:	7.94 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031809.D	1	07/10/25 17:26	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.88	U	0.88	3.80	ug/Kg
74-87-3	Chloromethane	0.88	U	0.88	3.80	ug/Kg
75-01-4	Vinyl Chloride	0.61	U	0.61	3.80	ug/Kg
74-83-9	Bromomethane	0.82	U	0.82	3.80	ug/Kg
75-00-3	Chloroethane	0.97	U	0.97	3.80	ug/Kg
75-69-4	Trichlorofluoromethane	0.93	U	0.93	3.80	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.81	U	0.81	3.80	ug/Kg
75-35-4	1,1-Dichloroethene	0.77	U	0.77	3.80	ug/Kg
67-64-1	Acetone	77.9		3.60	19.2	ug/Kg
75-15-0	Carbon Disulfide	1.10	J	0.81	3.80	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.56	U	0.56	3.80	ug/Kg
79-20-9	Methyl Acetate	1.20	U	1.20	3.80	ug/Kg
75-09-2	Methylene Chloride	2.70	U	2.70	7.70	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.66	U	0.66	3.80	ug/Kg
75-34-3	1,1-Dichloroethane	0.61	U	0.61	3.80	ug/Kg
110-82-7	Cyclohexane	0.61	U	0.61	3.80	ug/Kg
78-93-3	2-Butanone	22.2		5.00	19.2	ug/Kg
56-23-5	Carbon Tetrachloride	0.74	U	0.74	3.80	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.58	U	0.58	3.80	ug/Kg
74-97-5	Bromochloromethane	0.88	U	0.88	3.80	ug/Kg
67-66-3	Chloroform	0.65	U	0.65	3.80	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.71	U	0.71	3.80	ug/Kg
108-87-2	Methylcyclohexane	4.40		0.70	3.80	ug/Kg
71-43-2	Benzene	0.61	U	0.61	3.80	ug/Kg
107-06-2	1,2-Dichloroethane	0.61	U	0.61	3.80	ug/Kg
79-01-6	Trichloroethene	0.62	U	0.62	3.80	ug/Kg
78-87-5	1,2-Dichloropropane	0.70	U	0.70	3.80	ug/Kg
75-27-4	Bromodichloromethane	0.60	U	0.60	3.80	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.70	U	2.70	19.2	ug/Kg
108-88-3	Toluene	0.60	U	0.60	3.80	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-41	SDG No.:	Q2543
Lab Sample ID:	Q2543-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	82
Sample Wt/Vol:	7.94 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031809.D	1	07/10/25 17:26	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.50	3.80	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.48	U	0.48	3.80	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.71	U	0.71	3.80	ug/Kg
591-78-6	2-Hexanone	2.80	U	2.80	19.2	ug/Kg
124-48-1	Dibromochloromethane	0.67	U	0.67	3.80	ug/Kg
106-93-4	1,2-Dibromoethane	0.68	U	0.68	3.80	ug/Kg
127-18-4	Tetrachloroethene	0.81	U	0.81	3.80	ug/Kg
108-90-7	Chlorobenzene	0.70	U	0.70	3.80	ug/Kg
100-41-4	Ethyl Benzene	0.51	U	0.51	3.80	ug/Kg
179601-23-1	m/p-Xylenes	4.20	J	0.95	7.70	ug/Kg
95-47-6	o-Xylene	0.63	U	0.63	3.80	ug/Kg
100-42-5	Styrene	0.55	U	0.55	3.80	ug/Kg
75-25-2	Bromoform	0.66	U	0.66	3.80	ug/Kg
98-82-8	Isopropylbenzene	0.60	U	0.60	3.80	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.93	U	0.93	3.80	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.30	U	1.30	3.80	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.20	U	1.20	3.80	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.10	U	1.10	3.80	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.40	U	1.40	3.80	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.30	U	2.30	3.80	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.40	U	2.40	3.80	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.7		63 - 155	113%	SPK: 50
1868-53-7	Dibromofluoromethane	47.2		70 - 134	94%	SPK: 50
2037-26-5	Toluene-d8	46.0		74 - 123	92%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.2		17 - 146	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	171000	7.965			
540-36-3	1,4-Difluorobenzene	378000	8.855			
3114-55-4	Chlorobenzene-d5	348000	11.635			
3855-82-1	1,4-Dichlorobenzene-d4	159000	13.555			
TENTATIVE IDENTIFIED COMPOUNDS						

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-41	SDG No.:	Q2543
Lab Sample ID:	Q2543-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	82
Sample Wt/Vol:	7.94 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031809.D	1	07/10/25 17:26	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
1010386-40-2	2-Ethyl-oxetane	4.30	J		5.98	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-49	SDG No.:	Q2543
Lab Sample ID:	Q2543-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	73.9
Sample Wt/Vol:	7.88 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031810.D	1	07/10/25 17:48	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.98	U	0.98	4.30	ug/Kg
74-87-3	Chloromethane	0.98	U	0.98	4.30	ug/Kg
75-01-4	Vinyl Chloride	0.68	U	0.68	4.30	ug/Kg
74-83-9	Bromomethane	0.92	U	0.92	4.30	ug/Kg
75-00-3	Chloroethane	1.10	U	1.10	4.30	ug/Kg
75-69-4	Trichlorofluoromethane	1.00	U	1.00	4.30	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.91	U	0.91	4.30	ug/Kg
75-35-4	1,1-Dichloroethene	0.86	U	0.86	4.30	ug/Kg
67-64-1	Acetone	14.8	J	4.10	21.5	ug/Kg
75-15-0	Carbon Disulfide	0.91	U	0.91	4.30	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.63	U	0.63	4.30	ug/Kg
79-20-9	Methyl Acetate	1.30	U	1.30	4.30	ug/Kg
75-09-2	Methylene Chloride	3.00	U	3.00	8.60	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.74	U	0.74	4.30	ug/Kg
75-34-3	1,1-Dichloroethane	0.69	U	0.69	4.30	ug/Kg
110-82-7	Cyclohexane	0.68	U	0.68	4.30	ug/Kg
78-93-3	2-Butanone	5.60	U	5.60	21.5	ug/Kg
56-23-5	Carbon Tetrachloride	0.83	U	0.83	4.30	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.64	U	0.64	4.30	ug/Kg
74-97-5	Bromochloromethane	0.99	U	0.99	4.30	ug/Kg
67-66-3	Chloroform	0.72	U	0.72	4.30	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.80	U	0.80	4.30	ug/Kg
108-87-2	Methylcyclohexane	0.78	U	0.78	4.30	ug/Kg
71-43-2	Benzene	0.68	U	0.68	4.30	ug/Kg
107-06-2	1,2-Dichloroethane	0.68	U	0.68	4.30	ug/Kg
79-01-6	Trichloroethene	0.70	U	0.70	4.30	ug/Kg
78-87-5	1,2-Dichloropropane	0.78	U	0.78	4.30	ug/Kg
75-27-4	Bromodichloromethane	0.67	U	0.67	4.30	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.10	U	3.10	21.5	ug/Kg
108-88-3	Toluene	0.67	U	0.67	4.30	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-49	SDG No.:	Q2543
Lab Sample ID:	Q2543-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	73.9
Sample Wt/Vol:	7.88 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031810.D	1	07/10/25 17:48	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.56	U	0.56	4.30	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.53	U	0.53	4.30	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.79	U	0.79	4.30	ug/Kg
591-78-6	2-Hexanone	3.20	U	3.20	21.5	ug/Kg
124-48-1	Dibromochloromethane	0.75	U	0.75	4.30	ug/Kg
106-93-4	1,2-Dibromoethane	0.76	U	0.76	4.30	ug/Kg
127-18-4	Tetrachloroethene	0.90	U	0.90	4.30	ug/Kg
108-90-7	Chlorobenzene	0.78	U	0.78	4.30	ug/Kg
100-41-4	Ethyl Benzene	0.58	U	0.58	4.30	ug/Kg
179601-23-1	m/p-Xylenes	1.10	U	1.10	8.60	ug/Kg
95-47-6	o-Xylene	0.70	U	0.70	4.30	ug/Kg
100-42-5	Styrene	0.61	U	0.61	4.30	ug/Kg
75-25-2	Bromoform	0.74	U	0.74	4.30	ug/Kg
98-82-8	Isopropylbenzene	0.67	U	0.67	4.30	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	1.00	4.30	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.50	U	1.50	4.30	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.30	U	1.30	4.30	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.20	U	1.20	4.30	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.60	U	1.60	4.30	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.60	U	2.60	4.30	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.70	U	2.70	4.30	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	58.9		63 - 155	118%	SPK: 50
1868-53-7	Dibromofluoromethane	50.1		70 - 134	100%	SPK: 50
2037-26-5	Toluene-d8	48.0		74 - 123	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.6		17 - 146	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	160000	7.965			
540-36-3	1,4-Difluorobenzene	353000	8.849			
3114-55-4	Chlorobenzene-d5	345000	11.635			
3855-82-1	1,4-Dichlorobenzene-d4	158000	13.556			

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-49	SDG No.:	Q2543
Lab Sample ID:	Q2543-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	73.9
Sample Wt/Vol:	7.88 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031810.D	1	07/10/25 17:48	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23	SDG No.:	Q2543
Lab Sample ID:	Q2543-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85
Sample Wt/Vol:	6.54 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031811.D	1	07/10/25 18:10	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	1.00	4.50	ug/Kg
74-87-3	Chloromethane	1.00	U	1.00	4.50	ug/Kg
75-01-4	Vinyl Chloride	0.71	U	0.71	4.50	ug/Kg
74-83-9	Bromomethane	0.96	U	0.96	4.50	ug/Kg
75-00-3	Chloroethane	1.10	U	1.10	4.50	ug/Kg
75-69-4	Trichlorofluoromethane	1.10	U	1.10	4.50	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.95	U	0.95	4.50	ug/Kg
75-35-4	1,1-Dichloroethene	0.90	U	0.90	4.50	ug/Kg
67-64-1	Acetone	6.90	J	4.30	22.5	ug/Kg
75-15-0	Carbon Disulfide	0.95	U	0.95	4.50	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.66	U	0.66	4.50	ug/Kg
79-20-9	Methyl Acetate	1.40	U	1.40	4.50	ug/Kg
75-09-2	Methylene Chloride	5.90	J	3.20	9.00	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.77	U	0.77	4.50	ug/Kg
75-34-3	1,1-Dichloroethane	0.72	U	0.72	4.50	ug/Kg
110-82-7	Cyclohexane	0.71	U	0.71	4.50	ug/Kg
78-93-3	2-Butanone	5.90	U	5.90	22.5	ug/Kg
56-23-5	Carbon Tetrachloride	0.87	U	0.87	4.50	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.67	U	0.67	4.50	ug/Kg
74-97-5	Bromochloromethane	1.00	U	1.00	4.50	ug/Kg
67-66-3	Chloroform	0.76	U	0.76	4.50	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.84	U	0.84	4.50	ug/Kg
108-87-2	Methylcyclohexane	0.82	U	0.82	4.50	ug/Kg
71-43-2	Benzene	0.71	U	0.71	4.50	ug/Kg
107-06-2	1,2-Dichloroethane	0.71	U	0.71	4.50	ug/Kg
79-01-6	Trichloroethene	0.73	U	0.73	4.50	ug/Kg
78-87-5	1,2-Dichloropropane	0.82	U	0.82	4.50	ug/Kg
75-27-4	Bromodichloromethane	0.70	U	0.70	4.50	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.20	U	3.20	22.5	ug/Kg
108-88-3	Toluene	0.70	U	0.70	4.50	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23	SDG No.:	Q2543
Lab Sample ID:	Q2543-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85
Sample Wt/Vol:	6.54 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031811.D	1	07/10/25 18:10	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.58	U	0.58	4.50	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.56	U	0.56	4.50	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.83	U	0.83	4.50	ug/Kg
591-78-6	2-Hexanone	3.30	U	3.30	22.5	ug/Kg
124-48-1	Dibromochloromethane	0.78	U	0.78	4.50	ug/Kg
106-93-4	1,2-Dibromoethane	0.79	U	0.79	4.50	ug/Kg
127-18-4	Tetrachloroethene	0.94	U	0.94	4.50	ug/Kg
108-90-7	Chlorobenzene	0.82	U	0.82	4.50	ug/Kg
100-41-4	Ethyl Benzene	0.60	U	0.60	4.50	ug/Kg
179601-23-1	m/p-Xylenes	1.10	U	1.10	9.00	ug/Kg
95-47-6	o-Xylene	0.74	U	0.74	4.50	ug/Kg
100-42-5	Styrene	0.64	U	0.64	4.50	ug/Kg
75-25-2	Bromoform	0.77	U	0.77	4.50	ug/Kg
98-82-8	Isopropylbenzene	0.70	U	0.70	4.50	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	4.50	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.50	U	1.50	4.50	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.40	U	1.40	4.50	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.30	U	1.30	4.50	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.70	U	1.70	4.50	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.70	U	2.70	4.50	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.90	U	2.90	4.50	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	58.5		63 - 155	117%	SPK: 50
1868-53-7	Dibromofluoromethane	50.4		70 - 134	101%	SPK: 50
2037-26-5	Toluene-d8	47.9		74 - 123	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.0		17 - 146	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	167000	7.965			
540-36-3	1,4-Difluorobenzene	355000	8.855			
3114-55-4	Chlorobenzene-d5	345000	11.629			
3855-82-1	1,4-Dichlorobenzene-d4	166000	13.556			
TENTATIVE IDENTIFIED COMPOUNDS						

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23	SDG No.:	Q2543
Lab Sample ID:	Q2543-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85
Sample Wt/Vol:	6.54 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031811.D	1	07/10/25 18:10	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000110-54-3	n-Hexane	4.70	J		5.97	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23-99	SDG No.:	Q2543
Lab Sample ID:	Q2543-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85.4
Sample Wt/Vol:	5.27 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031812.D	1	07/10/25 18:32	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.30	U	1.30	5.60	ug/Kg
74-87-3	Chloromethane	1.30	U	1.30	5.60	ug/Kg
75-01-4	Vinyl Chloride	0.88	U	0.88	5.60	ug/Kg
74-83-9	Bromomethane	1.20	U	1.20	5.60	ug/Kg
75-00-3	Chloroethane	1.40	U	1.40	5.60	ug/Kg
75-69-4	Trichlorofluoromethane	1.30	U	1.30	5.60	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.20	U	1.20	5.60	ug/Kg
75-35-4	1,1-Dichloroethene	1.10	U	1.10	5.60	ug/Kg
67-64-1	Acetone	7.50	J	5.30	27.8	ug/Kg
75-15-0	Carbon Disulfide	1.20	U	1.20	5.60	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.81	U	0.81	5.60	ug/Kg
79-20-9	Methyl Acetate	1.70	U	1.70	5.60	ug/Kg
75-09-2	Methylene Chloride	3.90	U	3.90	11.1	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.96	U	0.96	5.60	ug/Kg
75-34-3	1,1-Dichloroethane	0.89	U	0.89	5.60	ug/Kg
110-82-7	Cyclohexane	0.88	U	0.88	5.60	ug/Kg
78-93-3	2-Butanone	7.30	U	7.30	27.8	ug/Kg
56-23-5	Carbon Tetrachloride	1.10	U	1.10	5.60	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.83	U	0.83	5.60	ug/Kg
74-97-5	Bromochloromethane	1.30	U	1.30	5.60	ug/Kg
67-66-3	Chloroform	0.93	U	0.93	5.60	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.00	U	1.00	5.60	ug/Kg
108-87-2	Methylcyclohexane	1.00	U	1.00	5.60	ug/Kg
71-43-2	Benzene	0.88	U	0.88	5.60	ug/Kg
107-06-2	1,2-Dichloroethane	0.88	U	0.88	5.60	ug/Kg
79-01-6	Trichloroethene	0.90	U	0.90	5.60	ug/Kg
78-87-5	1,2-Dichloropropane	1.00	U	1.00	5.60	ug/Kg
75-27-4	Bromodichloromethane	0.87	U	0.87	5.60	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.00	U	4.00	27.8	ug/Kg
108-88-3	Toluene	0.87	U	0.87	5.60	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23-99	SDG No.:	Q2543
Lab Sample ID:	Q2543-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85.4
Sample Wt/Vol:	5.27 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031812.D	1	07/10/25 18:32	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.72	U	0.72	5.60	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.69	U	0.69	5.60	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.00	U	1.00	5.60	ug/Kg
591-78-6	2-Hexanone	4.10	U	4.10	27.8	ug/Kg
124-48-1	Dibromochloromethane	0.97	U	0.97	5.60	ug/Kg
106-93-4	1,2-Dibromoethane	0.98	U	0.98	5.60	ug/Kg
127-18-4	Tetrachloroethene	1.20	U	1.20	5.60	ug/Kg
108-90-7	Chlorobenzene	1.00	U	1.00	5.60	ug/Kg
100-41-4	Ethyl Benzene	0.74	U	0.74	5.60	ug/Kg
179601-23-1	m/p-Xylenes	1.40	U	1.40	11.1	ug/Kg
95-47-6	o-Xylene	0.91	U	0.91	5.60	ug/Kg
100-42-5	Styrene	0.79	U	0.79	5.60	ug/Kg
75-25-2	Bromoform	0.96	U	0.96	5.60	ug/Kg
98-82-8	Isopropylbenzene	0.87	U	0.87	5.60	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.30	U	1.30	5.60	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.90	U	1.90	5.60	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.70	U	1.70	5.60	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.60	U	1.60	5.60	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.00	U	2.00	5.60	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.30	U	3.30	5.60	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.50	U	3.50	5.60	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.8		63 - 155	112%	SPK: 50
1868-53-7	Dibromofluoromethane	47.1		70 - 134	94%	SPK: 50
2037-26-5	Toluene-d8	45.4		74 - 123	91%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.4		17 - 146	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	171000	7.965			
540-36-3	1,4-Difluorobenzene	375000	8.849			
3114-55-4	Chlorobenzene-d5	354000	11.635			
3855-82-1	1,4-Dichlorobenzene-d4	168000	13.556			

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23-99	SDG No.:	Q2543
Lab Sample ID:	Q2543-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85.4
Sample Wt/Vol:	5.27 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031812.D	1	07/10/25 18:32	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

QC SUMMARY

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Surrogate Summary

SDG No.: Q2543

Client: CDM Smith

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
Q2543-01	TP-41	1,2-Dichloroethane-d4	50	56.7	113		63	155
		Dibromofluoromethane	50	47.2	94		70	134
		Toluene-d8	50	46.0	92		74	123
		4-Bromofluorobenzene	50	49.2	98		17	146
Q2543-02	TP-49	1,2-Dichloroethane-d4	50	58.9	118		63	155
		Dibromofluoromethane	50	50.1	100		70	134
		Toluene-d8	50	48.0	96		74	123
		4-Bromofluorobenzene	50	51.6	103		17	146
Q2543-03	TP-23	1,2-Dichloroethane-d4	50	58.5	117		63	155
		Dibromofluoromethane	50	50.4	101		70	134
		Toluene-d8	50	47.9	96		74	123
		4-Bromofluorobenzene	50	52.0	104		17	146
Q2543-04	TP-23-99	1,2-Dichloroethane-d4	50	55.8	112		63	155
		Dibromofluoromethane	50	47.1	94		70	134
		Toluene-d8	50	45.4	91		74	123
		4-Bromofluorobenzene	50	49.4	99		17	146
VW0710SBL01	VW0710SBL01	1,2-Dichloroethane-d4	50	55.9	112		63	155
		Dibromofluoromethane	50	46.0	92		70	134
		Toluene-d8	50	45.5	91		74	123
		4-Bromofluorobenzene	50	45.6	91		17	146
VW0710SBS01	VW0710SBS01	1,2-Dichloroethane-d4	50	48.8	98		63	155
		Dibromofluoromethane	50	47.6	95		70	134
		Toluene-d8	50	49.3	99		74	123
		4-Bromofluorobenzene	50	51.3	103		17	146
VW0710SBSD0	VW0710SBSD01	1,2-Dichloroethane-d4	50	51.5	103		63	155
		Dibromofluoromethane	50	49.9	100		70	134
		Toluene-d8	50	49.8	100		74	123
		4-Bromofluorobenzene	50	51.9	104		17	146

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2543 **Analytical Method:** SW8260D

Client: CDM Smith **Datafile :** VW031793.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VW0710SBS01	Dichlorodifluoromethane	20	18.5	ug/Kg	93			64	136	
	Chloromethane	20	19.3	ug/Kg	97			52	151	
	Vinyl chloride	20	20.1	ug/Kg	101			56	148	
	Bromomethane	20	18.8	ug/Kg	94			58	141	
	Chloroethane	20	19.6	ug/Kg	98			69	130	
	Trichlorofluoromethane	20	18.3	ug/Kg	92			69	134	
	1,1,2-Trichlorotrifluoroethane	20	19.3	ug/Kg	97			81	123	
	1,1-Dichloroethene	20	20.2	ug/Kg	101			79	121	
	Acetone	100	100	ug/Kg	100			40	171	
	Carbon disulfide	20	18.7	ug/Kg	94			59	130	
	Methyl tert-butyl Ether	20	21.2	ug/Kg	106			77	129	
	Methyl Acetate	20	17.7	ug/Kg	89			69	149	
	Methylene Chloride	20	24.3	ug/Kg	121			72	131	
	trans-1,2-Dichloroethene	20	20.1	ug/Kg	101			80	123	
	1,1-Dichloroethane	20	20.3	ug/Kg	102			82	123	
	Cyclohexane	20	20.2	ug/Kg	101			76	122	
	2-Butanone	100	110	ug/Kg	110			69	131	
	Carbon Tetrachloride	20	19.6	ug/Kg	98			76	129	
	cis-1,2-Dichloroethene	20	20.8	ug/Kg	104			82	123	
	Bromochloromethane	20	20.2	ug/Kg	101			80	127	
	Chloroform	20	21.2	ug/Kg	106			82	125	
	1,1,1-Trichloroethane	20	19.8	ug/Kg	99			80	126	
	Methylcyclohexane	20	20.4	ug/Kg	102			77	123	
	Benzene	20	20.8	ug/Kg	104			84	121	
	1,2-Dichloroethane	20	20.4	ug/Kg	102			81	126	
	Trichloroethene	20	20.4	ug/Kg	102			83	122	
	1,2-Dichloropropane	20	21.1	ug/Kg	106			83	122	
	Bromodichloromethane	20	20.3	ug/Kg	102			82	123	
	4-Methyl-2-Pentanone	100	100	ug/Kg	100			70	135	
	Toluene	20	20.9	ug/Kg	104			83	122	
	t-1,3-Dichloropropene	20	20.6	ug/Kg	103			78	124	
	cis-1,3-Dichloropropene	20	20.9	ug/Kg	104			81	122	
	1,1,2-Trichloroethane	20	20.6	ug/Kg	103			82	125	
	2-Hexanone	100	110	ug/Kg	110			66	138	
	Dibromochloromethane	20	19.4	ug/Kg	97			79	125	
	1,2-Dibromoethane	20	20.5	ug/Kg	103			80	125	
	Tetrachloroethene	20	19.5	ug/Kg	98			83	125	
	Chlorobenzene	20	21.4	ug/Kg	107			84	122	
	Ethyl Benzene	20	22.0	ug/Kg	110			82	124	
	m/p-Xylenes	40	42.3	ug/Kg	106			83	124	
	o-Xylene	20	21.8	ug/Kg	109			83	123	
	Styrene	20	21.4	ug/Kg	107			82	124	
	Bromoform	20	18.0	ug/Kg	90			75	127	
	Isopropylbenzene	20	20.4	ug/Kg	102			82	124	
	1,1,2,2-Tetrachloroethane	20	19.8	ug/Kg	99			77	127	
	1,3-Dichlorobenzene	20	19.9	ug/Kg	100			83	122	
	1,4-Dichlorobenzene	20	19.1	ug/Kg	96			84	121	
	1,2-Dichlorobenzene	20	20.0	ug/Kg	100			83	124	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2543 **Analytical Method:** SW8260D

Client: CDM Smith **Datafile :** VW031793.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VW0710SBS01	1,2-Dibromo-3-Chloropropane	20	18.2	ug/Kg	91			66	134	
	1,2,4-Trichlorobenzene	20	19.4	ug/Kg	97			78	127	
	1,2,3-Trichlorobenzene	20	18.5	ug/Kg	93			70	137	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2543 **Analytical Method:** SW8260D

Client: CDM Smith **Datafile :** VW031794.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VW0710SBSD01	Dichlorodifluoromethane	20	19.6	ug/Kg	98	5		64	136	20
	Chloromethane	20	19.4	ug/Kg	97	0		52	151	20
	Vinyl chloride	20	20.7	ug/Kg	104	3		56	148	20
	Bromomethane	20	18.6	ug/Kg	93	1		58	141	20
	Chloroethane	20	19.4	ug/Kg	97	1		69	130	20
	Trichlorofluoromethane	20	16.6	ug/Kg	83	10		69	134	20
	1,1,2-Trichlorotrifluoroethane	20	20.5	ug/Kg	103	6		81	123	20
	1,1-Dichloroethene	20	20.2	ug/Kg	101	0		79	121	20
	Acetone	100	110	ug/Kg	110	10		40	171	20
	Carbon disulfide	20	19.3	ug/Kg	97	3		59	130	20
	Methyl tert-butyl Ether	20	21.6	ug/Kg	108	2		77	129	20
	Methyl Acetate	20	19.0	ug/Kg	95	7		69	149	20
	Methylene Chloride	20	24.4	ug/Kg	122	1		72	131	20
	trans-1,2-Dichloroethene	20	20.6	ug/Kg	103	2		80	123	20
	1,1-Dichloroethane	20	21.2	ug/Kg	106	4		82	123	20
	Cyclohexane	20	21.2	ug/Kg	106	5		76	122	20
	2-Butanone	100	110	ug/Kg	110	0		69	131	20
	Carbon Tetrachloride	20	19.7	ug/Kg	99	1		76	129	20
	cis-1,2-Dichloroethene	20	21.4	ug/Kg	107	3		82	123	20
	Bromochloromethane	20	21.5	ug/Kg	108	7		80	127	20
	Chloroform	20	21.0	ug/Kg	105	1		82	125	20
	1,1,1-Trichloroethane	20	20.0	ug/Kg	100	1		80	126	20
	Methylcyclohexane	20	20.6	ug/Kg	103	1		77	123	20
	Benzene	20	21.2	ug/Kg	106	2		84	121	20
	1,2-Dichloroethane	20	21.3	ug/Kg	106	4		81	126	20
	Trichloroethene	20	19.5	ug/Kg	98	4		83	122	20
	1,2-Dichloropropane	20	21.1	ug/Kg	106	0		83	122	20
	Bromodichloromethane	20	20.8	ug/Kg	104	2		82	123	20
	4-Methyl-2-Pentanone	100	100	ug/Kg	100	0		70	135	20
	Toluene	20	20.7	ug/Kg	104	0		83	122	20
	t-1,3-Dichloropropene	20	20.6	ug/Kg	103	0		78	124	20
	cis-1,3-Dichloropropene	20	21.3	ug/Kg	106	2		81	122	20
	1,1,2-Trichloroethane	20	21.5	ug/Kg	108	5		82	125	20
	2-Hexanone	100	110	ug/Kg	110	0		66	138	20
	Dibromochloromethane	20	20.4	ug/Kg	102	5		79	125	20
	1,2-Dibromoethane	20	20.5	ug/Kg	103	0		80	125	20
	Tetrachloroethene	20	19.2	ug/Kg	96	2		83	125	20
	Chlorobenzene	20	21.2	ug/Kg	106	1		84	122	20
	Ethyl Benzene	20	21.3	ug/Kg	106	4		82	124	20
	m/p-Xylenes	40	41.8	ug/Kg	104	2		83	124	20
	o-Xylene	20	21.1	ug/Kg	106	3		83	123	20
	Styrene	20	21.4	ug/Kg	107	0		82	124	20
	Bromoform	20	19.5	ug/Kg	98	9		75	127	20
	Isopropylbenzene	20	21.1	ug/Kg	106	4		82	124	20
	1,1,2,2-Tetrachloroethane	20	21.3	ug/Kg	106	7		77	127	20
	1,3-Dichlorobenzene	20	21.9	ug/Kg	110	10		83	122	20
	1,4-Dichlorobenzene	20	20.5	ug/Kg	103	7		84	121	20
	1,2-Dichlorobenzene	20	20.8	ug/Kg	104	4		83	124	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2543 **Analytical Method:** SW8260D

Client: CDM Smith **Datafile :** VW031794.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VW0710SBSD01	1,2-Dibromo-3-Chloropropane	20	19.9	ug/Kg	100	9		66	134	20
	1,2,4-Trichlorobenzene	20	19.8	ug/Kg	99	2		78	127	20
	1,2,3-Trichlorobenzene	20	19.5	ug/Kg	98	5		70	137	20

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VOLATILE METHOD BLANK SUMMARY

Client ID: VW0710SBL01

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2543

Lab File ID: VW031792.D Lab Sample ID: VW0710SBL01

Date Analyzed: 07/10/2025 Time Analyzed: 10:15

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOA_W

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VW0710SBS01	VW0710SBS01	VW031793.D	07/10/2025
VW0710SBSD01	VW0710SBSD01	VW031794.D	07/10/2025
TP-41	Q2543-01	VW031809.D	07/10/2025
TP-49	Q2543-02	VW031810.D	07/10/2025
TP-23	Q2543-03	VW031811.D	07/10/2025
TP-23-99	Q2543-04	VW031812.D	07/10/2025

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2543

Lab File ID: VW031728.D | BFB Injection Date: 06/30/2025

Instrument ID: MSVOA_W | BFB Injection Time: 08:56

GC Column: RXI-624 ID: 0.25 (mm) | Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.7
75	30.0 - 60.0% of mass 95	52.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	65.4
175	5.0 - 9.0% of mass 174	5.4 (8.2) 1
176	95.0 - 101.0% of mass 174	64.8 (99.2) 1
177	5.0 - 9.0% of mass 176	4.1 (6.3) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC005	VSTDICC005	VW031729.D	06/30/2025	09:54
VSTDICC010	VSTDICC010	VW031730.D	06/30/2025	10:15
VSTDICC020	VSTDICC020	VW031731.D	06/30/2025	10:58
VSTDICCC050	VSTDICCC050	VW031732.D	06/30/2025	11:21
VSTDICC100	VSTDICC100	VW031733.D	06/30/2025	12:34
VSTDICC150	VSTDICC150	VW031734.D	06/30/2025	12:55

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Contract: CAMP02
Lab Code: ACE
SDG NO.: Q2543
Lab File ID: VW031790.D
BFB Injection Date: 07/10/2025
Instrument ID: MSVOA_W
BFB Injection Time: 08:16
GC Column: RXI-624 ID: 0.25 (mm)
Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.3
75	30.0 - 60.0% of mass 95	52.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	64.3
175	5.0 - 9.0% of mass 174	4.9 (7.6) 1
176	95.0 - 101.0% of mass 174	63.2 (98.3) 1
177	5.0 - 9.0% of mass 176	3.9 (6.1) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VW031791.D	07/10/2025	08:47
VW0710SBL01	VW0710SBL01	VW031792.D	07/10/2025	10:15
VW0710SBS01	VW0710SBS01	VW031793.D	07/10/2025	11:05
VW0710SBSD01	VW0710SBSD01	VW031794.D	07/10/2025	11:33
TP-41	Q2543-01	VW031809.D	07/10/2025	17:26
TP-49	Q2543-02	VW031810.D	07/10/2025	17:48
TP-23	Q2543-03	VW031811.D	07/10/2025	18:10
TP-23-99	Q2543-04	VW031812.D	07/10/2025	18:32

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2543

Lab File ID: VW031791.D Date Analyzed: 07/10/2025

Instrument ID: MSVOA_W Time Analyzed: 08:47

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	245114	7.97	431816	8.85	372703	11.63
UPPER LIMIT	490228	8.465	863632	9.349	745406	12.129
LOWER LIMIT	122557	7.465	215908	8.349	186352	11.129
EPA SAMPLE NO.						
TP-41	171010	7.97	378208	8.86	348050	11.64
TP-49	160019	7.97	352818	8.85	344995	11.64
TP-23	167231	7.97	355443	8.86	345205	11.63
TP-23-99	171007	7.97	374934	8.85	354079	11.64
VW0710SBL01	178449	7.96	403423	8.85	368923	11.64
VW0710SBS01	227800	7.97	411611	8.86	356304	11.64
VW0710SBSD01	226314	7.97	415001	8.85	365558	11.63

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2543

Lab File ID: VW031791.D Date Analyzed: 07/10/2025

Instrument ID: MSVOA_W Time Analyzed: 08:47

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	173821	13.556				
UPPER LIMIT	347642	14.056				
LOWER LIMIT	86910.5	13.056				
EPA SAMPLE NO.						
TP-41	159478	13.56				
TP-49	157809	13.56				
TP-23	165908	13.56				
TP-23-99	167590	13.56				
VW0710SBL01	171872	13.56				
VW0710SBS01	178658	13.56				
VW0710SBSD01	173637	13.56				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VW0710SBL01	SDG No.:	Q2543
Lab Sample ID:	VW0710SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031792.D	1	07/10/25 10:15	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	5.00	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	0.79	U	0.79	5.00	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	5.00	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	1.20	U	1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	1.00	U	1.00	5.00	ug/Kg
67-64-1	Acetone	4.70	U	4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.73	U	0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	3.50	U	3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.86	U	0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.80	U	0.80	5.00	ug/Kg
110-82-7	Cyclohexane	0.79	U	0.79	5.00	ug/Kg
78-93-3	2-Butanone	6.50	U	6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.97	U	0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	1.20	U	1.20	5.00	ug/Kg
67-66-3	Chloroform	0.84	U	0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.93	U	0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.91	U	0.91	5.00	ug/Kg
71-43-2	Benzene	0.79	U	0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.79	U	0.79	5.00	ug/Kg
79-01-6	Trichloroethene	0.81	U	0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.91	U	0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.78	U	0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.60	U	3.60	25.0	ug/Kg
108-88-3	Toluene	0.78	U	0.78	5.00	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VW0710SBL01	SDG No.:	Q2543
Lab Sample ID:	VW0710SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031792.D	1	07/10/25 10:15	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.65	U	0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.62	U	0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.92	U	0.92	5.00	ug/Kg
591-78-6	2-Hexanone	3.70	U	3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.87	U	0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.88	U	0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	0.91	U	0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.67	U	0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	10.0	ug/Kg
95-47-6	o-Xylene	0.82	U	0.82	5.00	ug/Kg
100-42-5	Styrene	0.71	U	0.71	5.00	ug/Kg
75-25-2	Bromoform	0.86	U	0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.70	U	1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.60	U	1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.00	U	3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.20	U	3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.9		63 - 155	112%	SPK: 50
1868-53-7	Dibromofluoromethane	46.0		70 - 134	92%	SPK: 50
2037-26-5	Toluene-d8	45.5		74 - 123	91%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.6		17 - 146	91%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	178000	7.959			
540-36-3	1,4-Difluorobenzene	403000	8.849			
3114-55-4	Chlorobenzene-d5	369000	11.635			
3855-82-1	1,4-Dichlorobenzene-d4	172000	13.556			

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VW0710SBL01	SDG No.:	Q2543
Lab Sample ID:	VW0710SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031792.D	1	07/10/25 10:15	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VW0710SBS01	SDG No.:	Q2543
Lab Sample ID:	VW0710SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031793.D	1	07/10/25 11:05	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	18.5		1.10	5.00	ug/Kg
74-87-3	Chloromethane	19.3		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	20.1		0.79	5.00	ug/Kg
74-83-9	Bromomethane	18.8		1.10	5.00	ug/Kg
75-00-3	Chloroethane	19.6		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	18.3		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	19.3		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.2		1.00	5.00	ug/Kg
67-64-1	Acetone	100		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	18.7		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	21.2		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	17.7		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	24.3		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.1		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.3		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	20.2		0.79	5.00	ug/Kg
78-93-3	2-Butanone	110		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.6		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.8		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	20.2		1.20	5.00	ug/Kg
67-66-3	Chloroform	21.2		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	19.8		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	20.4		0.91	5.00	ug/Kg
71-43-2	Benzene	20.8		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.4		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.4		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	21.1		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.3		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	100		3.60	25.0	ug/Kg
108-88-3	Toluene	20.9		0.78	5.00	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VW0710SBS01	SDG No.:	Q2543
Lab Sample ID:	VW0710SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031793.D	1	07/10/25 11:05	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.6		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.9		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.6		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	110		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	19.4		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.5		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	19.5		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	21.4		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	22.0		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	42.3		1.20	10.0	ug/Kg
95-47-6	o-Xylene	21.8		0.82	5.00	ug/Kg
100-42-5	Styrene	21.4		0.71	5.00	ug/Kg
75-25-2	Bromoform	18.0		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	20.4		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	19.8		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.9		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.1		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.0		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	18.2		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.4		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	18.5		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.8		63 - 155	98%	SPK: 50
1868-53-7	Dibromofluoromethane	47.6		70 - 134	95%	SPK: 50
2037-26-5	Toluene-d8	49.3		74 - 123	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.3		17 - 146	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	228000	7.965			
540-36-3	1,4-Difluorobenzene	412000	8.855			
3114-55-4	Chlorobenzene-d5	356000	11.635			
3855-82-1	1,4-Dichlorobenzene-d4	179000	13.556			

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Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VW0710SBS01	SDG No.:	Q2543
Lab Sample ID:	VW0710SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031793.D	1	07/10/25 11:05	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VW0710SBSD01	SDG No.:	Q2543
Lab Sample ID:	VW0710SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031794.D	1	07/10/25 11:33	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	19.6		1.10	5.00	ug/Kg
74-87-3	Chloromethane	19.4		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	20.7		0.79	5.00	ug/Kg
74-83-9	Bromomethane	18.6		1.10	5.00	ug/Kg
75-00-3	Chloroethane	19.4		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	16.6		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.5		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.2		1.00	5.00	ug/Kg
67-64-1	Acetone	110		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	19.3		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	21.6		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	19.0		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	24.4		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.6		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	21.2		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	21.2		0.79	5.00	ug/Kg
78-93-3	2-Butanone	110		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.7		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	21.4		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	21.5		1.20	5.00	ug/Kg
67-66-3	Chloroform	21.0		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.0		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	20.6		0.91	5.00	ug/Kg
71-43-2	Benzene	21.2		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	21.3		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	19.5		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	21.1		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.8		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	100		3.60	25.0	ug/Kg
108-88-3	Toluene	20.7		0.78	5.00	ug/Kg

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VW0710SBSD01	SDG No.:	Q2543
Lab Sample ID:	VW0710SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031794.D	1	07/10/25 11:33	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.6		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	21.3		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	21.5		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	110		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.4		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.5		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	19.2		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	21.2		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	21.3		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	41.8		1.20	10.0	ug/Kg
95-47-6	o-Xylene	21.1		0.82	5.00	ug/Kg
100-42-5	Styrene	21.4		0.71	5.00	ug/Kg
75-25-2	Bromoform	19.5		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	21.1		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	21.3		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	21.9		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.5		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.8		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	19.9		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.8		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	19.5		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.5		63 - 155	103%	SPK: 50
1868-53-7	Dibromofluoromethane	49.9		70 - 134	100%	SPK: 50
2037-26-5	Toluene-d8	49.8		74 - 123	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.9		17 - 146	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	226000	7.965			
540-36-3	1,4-Difluorobenzene	415000	8.849			
3114-55-4	Chlorobenzene-d5	366000	11.629			
3855-82-1	1,4-Dichlorobenzene-d4	174000	13.556			

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VW0710SBSD01	SDG No.:	Q2543
Lab Sample ID:	VW0710SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031794.D	1	07/10/25 11:33	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG No.: Q2543

Instrument ID: MSVOA_W | Calibration Date(s): 06/30/2025 06/30/2025

Heated Purge: (Y/N) Y | Calibration Time(s): 09:54 12:55

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VW031729.D RRF010 = VW031730.D RRF020 = VW031731.D
RRF050 = VW031732.D RRF100 = VW031733.D RRF150 = VW031734.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.330	0.371	0.352	0.310	0.329	0.351	0.341	6.3
Chloromethane	0.409	0.410	0.428	0.375	0.405	0.436	0.411	5.1
Vinyl Chloride	0.523	0.534	0.576	0.514	0.545	0.546	0.540	4
Bromomethane	0.429	0.431	0.443	0.396	0.412	0.418	0.421	3.9
Chloroethane	0.370	0.372	0.379	0.347	0.360	0.372	0.367	3.1
Trichlorofluoromethane	0.509	0.508	0.442	0.469	0.466	0.546	0.490	7.7
1,1,2-Trichlorotrifluoroethane	0.577	0.563	0.569	0.508	0.517	0.530	0.544	5.4
1,1-Dichloroethene	0.602	0.625	0.622	0.556	0.581	0.588	0.596	4.4
Acetone	0.238	0.191	0.171	0.163	0.157	0.144	0.177	18.8
Carbon Disulfide	1.571	1.588	1.647	1.536	1.590	1.633	1.594	2.5
Methyl tert-butyl Ether	1.007	1.018	1.038	1.033	0.982	0.988	1.011	2.3
Methyl Acetate	0.540	0.523	0.498	0.528	0.467	0.485	0.507	5.6
Methylene Chloride	1.029	0.980	0.905	0.692	0.655	0.626	0.814	21.7
trans-1,2-Dichloroethene	0.635	0.623	0.667	0.613	0.631	0.629	0.633	2.9
1,1-Dichloroethane	1.154	1.163	1.219	1.116	1.131	1.153	1.156	3.1
Cyclohexane	1.175	1.065	1.033	0.937	0.940	0.981	1.022	8.9
2-Butanone	0.224	0.224	0.221	0.249	0.231	0.237	0.231	4.6
Carbon Tetrachloride	0.477	0.498	0.498	0.461	0.468	0.485	0.481	3.2
cis-1,2-Dichloroethene	0.711	0.709	0.754	0.716	0.736	0.740	0.728	2.5
Bromochloromethane	0.531	0.501	0.535	0.504	0.500	0.489	0.510	3.7
Chloroform	1.230	1.239	1.299	1.204	1.189	1.208	1.228	3.2
1,1,1-Trichloroethane	0.933	0.983	0.971	0.925	0.907	0.959	0.946	3.1
Methylcyclohexane	0.573	0.571	0.604	0.566	0.592	0.619	0.587	3.6
Benzene	1.410	1.394	1.483	1.375	1.349	1.371	1.397	3.4
1,2-Dichloroethane	0.490	0.490	0.493	0.464	0.449	0.445	0.472	4.7
Trichloroethene	0.344	0.346	0.367	0.344	0.337	0.354	0.349	3.1
1,2-Dichloropropane	0.348	0.344	0.353	0.331	0.324	0.325	0.338	3.7
Bromodichloromethane	0.509	0.512	0.524	0.511	0.502	0.510	0.511	1.4
4-Methyl-2-Pentanone	0.285	0.301	0.295	0.313	0.289	0.287	0.295	3.5
Toluene	0.882	0.898	0.938	0.876	0.874	0.899	0.894	2.7

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG No.: Q2543

Instrument ID: MSVOA_W | Calibration Date(s): 06/30/2025 06/30/2025

Heated Purge: (Y/N) Y | Calibration Time(s): 09:54 12:55

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VW031729.D RRF010 = VW031730.D RRF020 = VW031731.D
RRF050 = VW031732.D RRF100 = VW031733.D RRF150 = VW031734.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.432	0.460	0.491	0.496	0.497	0.500	0.480	5.7
cis-1,3-Dichloropropene	0.514	0.521	0.571	0.549	0.547	0.560	0.544	4.1
1,1,2-Trichloroethane	0.299	0.282	0.299	0.285	0.275	0.273	0.286	4
2-Hexanone	0.185	0.201	0.195	0.219	0.201	0.199	0.200	5.6
Dibromochloromethane	0.329	0.332	0.353	0.352	0.336	0.345	0.341	3
1,2-Dibromoethane	0.288	0.285	0.296	0.290	0.274	0.281	0.286	2.7
Tetrachloroethene	0.331	0.321	0.324	0.314	0.329	0.344	0.327	3.2
Chlorobenzene	1.128	1.116	1.116	1.062	1.078	1.120	1.103	2.4
Ethyl Benzene	1.860	1.899	1.911	1.885	1.934	1.989	1.913	2.3
m/p-Xylenes	0.690	0.730	0.751	0.727	0.750	0.764	0.735	3.6
o-Xylene	0.636	0.654	0.685	0.682	0.705	0.723	0.681	4.7
Styrene	1.066	1.154	1.195	1.209	1.206	1.232	1.177	5.1
Bromoform	0.197	0.202	0.203	0.219	0.215	0.223	0.210	5.1
Isopropylbenzene	3.643	3.549	3.683	3.732	4.080	4.132	3.803	6.4
1,1,2,2-Tetrachloroethane	0.891	0.839	0.812	0.843	0.829	0.852	0.844	3.2
1,3-Dichlorobenzene	1.771	1.705	1.683	1.644	1.681	1.723	1.701	2.5
1,4-Dichlorobenzene	1.815	1.750	1.700	1.702	1.735	1.745	1.741	2.4
1,2-Dichlorobenzene	1.599	1.518	1.511	1.575	1.563	1.563	1.555	2.2
1,2-Dibromo-3-Chloropropane	0.169	0.159	0.153	0.166	0.167	0.174	0.165	4.6
1,2,4-Trichlorobenzene	0.965	0.899	0.929	0.933	1.000	1.028	0.959	5
1,2,3-Trichlorobenzene	0.863	0.865	0.827	0.862	0.944	0.926	0.881	5
1,2-Dichloroethane-d4	0.731	0.732	0.739	0.715	0.702	0.687	0.718	2.8
Dibromofluoromethane	0.322	0.324	0.348	0.324	0.327	0.312	0.326	3.6
Toluene-d8	1.121	1.245	1.290	1.208	1.229	1.193	1.214	4.7
4-Bromofluorobenzene	0.436	0.452	0.463	0.447	0.450	0.434	0.447	2.4

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2543

Instrument ID: MSVOA_W Calibration Date/Time: 07/10/2025 08:47

Lab File ID: VW031791.D Init. Calib. Date(s): 06/30/2025 06/30/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:54 12:55

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.341	0.332		-2.64	20
Chloromethane	0.411	0.420	0.1	2.19	20
Vinyl Chloride	0.540	0.564		4.44	20
Bromomethane	0.421	0.402		-4.51	20
Chloroethane	0.367	0.366		-0.27	20
Trichlorofluoromethane	0.490	0.492		0.41	20
1,1,2-Trichlorotrifluoroethane	0.544	0.551		1.29	20
1,1-Dichloroethene	0.596	0.602		1.01	20
Acetone	0.177	0.174		-1.7	20
Carbon Disulfide	1.594	1.572		-1.38	20
Methyl tert-butyl Ether	1.011	1.104		9.2	20
Methyl Acetate	0.507	0.519		2.37	20
Methylene Chloride	0.814	0.823		1.11	20
trans-1,2-Dichloroethene	0.633	0.640		1.11	20
1,1-Dichloroethane	1.156	1.209	0.1	4.59	20
Cyclohexane	1.022	1.029		0.69	20
2-Butanone	0.231	0.241		4.33	20
Carbon Tetrachloride	0.481	0.507		5.41	20
cis-1,2-Dichloroethene	0.728	0.766		5.22	20
Bromochloromethane	0.510	0.525		2.94	20
Chloroform	1.228	1.273		3.66	20
1,1,1-Trichloroethane	0.946	0.972		2.75	20
Methylcyclohexane	0.587	0.637		8.52	20
Benzene	1.397	1.483		6.16	20
1,2-Dichloroethane	0.472	0.498		5.51	20
Trichloroethene	0.349	0.349		0	20
1,2-Dichloropropane	0.338	0.363		7.4	20
Bromodichloromethane	0.511	0.559		9.39	20
4-Methyl-2-Pentanone	0.295	0.312		5.76	20
Toluene	0.894	0.967		8.17	20
t-1,3-Dichloropropene	0.480	0.540		12.5	20
cis-1,3-Dichloropropene	0.544	0.610		12.13	20
1,1,2-Trichloroethane	0.286	0.303		5.94	20
2-Hexanone	0.200	0.219		9.5	20
Dibromochloromethane	0.341	0.365		7.04	20
1,2-Dibromoethane	0.286	0.301		5.24	20
Tetrachloroethene	0.327	0.330		0.92	20
Chlorobenzene	1.103	1.194	0.3	8.25	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG No.: Q2543

Instrument ID: MSVOA_W | Calibration Date/Time: 07/10/2025 08:47

Lab File ID: VW031791.D | Init. Calib. Date(s): 06/30/2025 06/30/2025

Heated Purge: (Y/N) Y | Init. Calib. Time(s): 09:54 12:55

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.913	2.125		11.08	20
m/p-Xylenes	0.735	0.834		13.47	20
o-Xylene	0.681	0.781		14.68	20
Styrene	1.177	1.307		11.05	20
Bromoform	0.210	0.217	0.1	3.33	20
Isopropylbenzene	3.803	4.324		13.7	20
1,1,2,2-Tetrachloroethane	0.844	0.925	0.3	9.6	20
1,3-Dichlorobenzene	1.701	1.790		5.23	20
1,4-Dichlorobenzene	1.741	1.807		3.79	20
1,2-Dichlorobenzene	1.555	1.645		5.79	20
1,2-Dibromo-3-Chloropropane	0.165	0.173		4.85	20
1,2,4-Trichlorobenzene	0.959	1.053		9.8	20
1,2,3-Trichlorobenzene	0.881	0.966		9.65	20
1,2-Dichloroethane-d4	0.718	0.700		-2.51	20
Dibromofluoromethane	0.326	0.329		0.92	20
Toluene-d8	1.214	1.231		1.4	20
4-Bromofluorobenzene	0.447	0.459		2.68	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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LAB CHRONICLE

OrderID:	Q2543	**OrderDate:**	7/9/2025 12:26:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	O42,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2543-01	**TP-41**	**SOIL**			**07/08/25**			**07/09/25**
			Gasoline Range Organics	8015D			07/10/25	
			PCB	8082A		07/10/25	07/10/25	
			Pesticide-TCL	8081B		07/10/25	07/10/25	
Q2543-02	**TP-49**	**SOIL**			**07/09/25**			**07/09/25**
			Gasoline Range Organics	8015D			07/10/25	
			PCB	8082A		07/10/25	07/10/25	
			Pesticide-TCL	8081B		07/10/25	07/10/25	
Q2543-03	**TP-23**	**SOIL**			**07/09/25**			**07/09/25**
			Gasoline Range Organics	8015D			07/10/25	
			PCB	8082A		07/10/25	07/10/25	
			Pesticide-TCL	8081B		07/10/25	07/10/25	
Q2543-04	**TP-23-99**	**SOIL**			**07/09/25**			**07/09/25**
			Gasoline Range Organics	8015D			07/10/25	
			PCB	8082A		07/10/25	07/10/25	
			Pesticide-TCL	8081B		07/10/25	07/10/25	

SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-41	SDG No.:	Q2543
Lab Sample ID:	Q2543-01	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	82 Decanted:
Sample Wt/Vol:	5.15 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032065.D	1	07/10/25 12:36	FB071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	18.0	J	10.0	53.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	16.8		50 - 150	84%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-49	SDG No.:	Q2543
Lab Sample ID:	Q2543-02	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	73.9 Decanted:
Sample Wt/Vol:	4.75 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032073.D	1	07/10/25 16:52	FB071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	12.0	U	12.0	64.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	17.7		50 - 150	88%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
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LOD = Limit of Detection
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() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23	SDG No.:	Q2543
Lab Sample ID:	Q2543-03	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	85 Decanted:
Sample Wt/Vol:	4.8 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032067.D	1	07/10/25 13:31	FB071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	10.0	U	10.0	55.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	18.0		50 - 150	90%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
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() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23-99	SDG No.:	Q2543
Lab Sample ID:	Q2543-04	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	85.4 Decanted:
Sample Wt/Vol:	4.81 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032068.D	1	07/10/25 13:59	FB071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	10.0	U	10.0	55.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	18.5		50 - 150	93%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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M = MS/MSD acceptance criteria did not meet requirements

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B = Analyte Found in Associated Method Blank
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* = Values outside of QC limits
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S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
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QC SUMMARY

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SOIL GASOLINE RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Alliance Client: CDM Smith

Lab Code: ACE SDG No.: Q2543

CLIENT ID	S1 AAA-TFT	S2	S3	S4	TOT OUT
VBF0710S1	92				0
BSF0710S1	101				0
TP-41	84				0
TP-23	90				0
TP-23-99	93				0
BSF0710S2	96				0
TP-49	88				0

	QC LIMITS
AAA-TFT	For Water : 50-150 For Soil : 50-150

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate Diluted Out

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SOIL GASOLINE RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATI

Lab Name: Alliance **Client:** CDM Smith

Lab Code: ACE **SDG No:** Q2543

Client Sample ID : BSF0710S1 **Datafile:** FB032062.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS (%)
GRO	180	0	155	86	50-150

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SOIL GASOLINE RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATI

Lab Name: Alliance **Client:** CDM Smith

Lab Code: ACE **SDG No:** Q2543

Client Sample ID : BSF0710S2 **Datafile:** FB032070.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS (%)
GRO	180	0	155	86	50-150

LCS/LCSD % Recovery RPD : 0

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METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

VBF0710S1

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2543

Lab File ID: FB032060.D Lab Sample ID: VBF0710S1

Date Analyzed: 07/10/25 Time Analyzed: 9:50

GC Column: RTX-502.2 ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID: FB

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
BSF0710S1	BSF0710S1	FB032062.D	07/10/25
TP-41	Q2543-01	FB032065.D	07/10/25
TP-23	Q2543-03	FB032067.D	07/10/25
TP-23-99	Q2543-04	FB032068.D	07/10/25
BSF0710S2	BSF0710S2	FB032070.D	07/10/25
TP-49	Q2543-02	FB032073.D	07/10/25

COMMENTS:

QC SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VBF0710S1	SDG No.:	Q2543
Lab Sample ID:	VBF0710S1	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	100 Decanted:
Sample Wt/Vol:	5 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032060.D	1	07/10/25 9:50	FB071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	8.00	U	8.00	45.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	18.4		50 - 150	92%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
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() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	BSF0710S1	SDG No.:	Q2543
Lab Sample ID:	BSF0710S1	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	100 Decanted:
Sample Wt/Vol:	5 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032062.D	1	07/10/25 10:45	FB071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	155		8.00	45.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	20.2		50 - 150	101%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	BSF0710S2	SDG No.:	Q2543
Lab Sample ID:	BSF0710S2	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	100 Decanted:
Sample Wt/Vol:	5 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032070.D	1	07/10/25 14:54	FB071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	155		8.00	45.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	19.2		50 - 150	96%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CALIBRATION SUMMARY

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GASOLINE RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: Alliance
Contract: CAMP02
ProjectID: South River WM Replacement
Lab Code: ACE
SDG No.: Q2543

Calibration Sequence : FB062325		Test : Gasoline Range Organics	
Concentration (PPB)	**Area Count**	**Reference Factor**	**File ID**
45	1490557	33123	FB031909.D
90	2566530	28517	FB031910.D
180	5166210	28701	FB031911.D
450	12609856	28022	FB031912.D
900	27368301	30409	FB031913.D
AVG RF : 29754	**% RSD : 7.013**		**AVG RT : 8.798**

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GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2543

DataFile: FB032059.D Analyst Name: YP/AJ Analyst Date: 07-10-2025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	4467208	24818	29754	16.589

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GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2543

DataFile: FB032071.D Analyst Name: YP/AJ Analyst Date: 07-10-2025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	4595160	25529	29754	14.2

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GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2543

DataFile: FB032085.D Analyst Name: YP/AJ Analyst Date: 07-10-2025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	4594906	25527	29754	14.206

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Analytical Sequence

Client: CDM Smith **SDG No.:** Q2543

Project: South River WM Replacement **Instrument ID:** FID_B

GC Column: RTX-502.2 **ID:** 0.53 **(mm)**

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SUROGATE RT FROM INITIAL CALIBRATION **8.798**

CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
20 PPB GRO STD	20 PPB GRO STD	10 Jul 2025 9:08	FB032059.D	8.796	
VBF0710S1	VBF0710S1	10 Jul 2025 9:50	FB032060.D	8.797	
BSF0710S1	BSF0710S1	10 Jul 2025 10:45	FB032062.D	8.798	
TP-41	Q2543-01	10 Jul 2025 12:36	FB032065.D	8.798	
TP-23	Q2543-03	10 Jul 2025 13:31	FB032067.D	8.799	
TP-23-99	Q2543-04	10 Jul 2025 13:59	FB032068.D	8.798	
BSF0710S2	BSF0710S2	10 Jul 2025 14:54	FB032070.D	8.799	
20 PPB GRO STD	20 PPB GRO STD	10 Jul 2025 15:22	FB032071.D	8.800	
TP-49	Q2543-02	10 Jul 2025 16:52	FB032073.D	8.800	
20 PPB GRO STD	20 PPB GRO STD	10 Jul 2025 23:17	FB032085.D	8.799	

 # Column used to flag RT values with an * values outside of QC limits

QC Limits	Lower Limit	Upper Limits
(± 0.10 minutes)	8.698	8.898

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LAB CHRONICLE

OrderID:	Q2543	**OrderDate:**	7/9/2025 12:26:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	O42,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2543-01	**TP-41**	**SOIL**			**07/08/25**			**07/09/25**
			SVOC-TCL BNA -20	8270E		07/10/25	07/15/25	
Q2543-02	**TP-49**	**SOIL**			**07/09/25**			**07/09/25**
			SVOC-TCL BNA -20	8270E		07/10/25	07/10/25	
Q2543-03	**TP-23**	**SOIL**			**07/09/25**			**07/09/25**
			SVOC-TCL BNA -20	8270E		07/10/25	07/10/25	
Q2543-04	**TP-23-99**	**SOIL**			**07/09/25**			**07/09/25**
			SVOC-TCL BNA -20	8270E		07/10/25	07/10/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2543

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID : TP-41									
Q2543-01	TP-41	SOIL	1-Nonadecene	*	180.000	J	0	0	ug/Kg
Q2543-01	TP-41	SOIL	1-Tetracosene	*	270.000	J	0	0	ug/Kg
Q2543-01	TP-41	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	200.000	AB	0	0	ug/Kg
Q2543-01	TP-41	SOIL	Benzophenone	*	250.000	J	0	0	ug/Kg
Q2543-01	TP-41	SOIL	n-Hexadecanoic acid	*	310.000	J	0	0	ug/Kg
			Total Tics :		**1,210.00**				
			Total Concentration:		**1,210.00**				
Client ID : TP-49									
Q2543-02	TP-49	SOIL	Fluoranthene		310.000		40.6	230	ug/Kg
Q2543-02	TP-49	SOIL	Pyrene		250.000		48.7	230	ug/Kg
Q2543-02	TP-49	SOIL	Benzo(a)anthracene		150.000	J	31.1	230	ug/Kg
Q2543-02	TP-49	SOIL	Chrysene		170.000	J	26.9	230	ug/Kg
Q2543-02	TP-49	SOIL	Benzo(b)fluoranthene		250.000		25.7	230	ug/Kg
Q2543-02	TP-49	SOIL	Benzo(k)fluoranthene		92.600	J	30.3	230	ug/Kg
Q2543-02	TP-49	SOIL	Benzo(a)pyrene		170.000	JQ	39.9	230	ug/Kg
Q2543-02	TP-49	SOIL	Benzo(g,h,i)perylene		96.100	J	34.8	230	ug/Kg
			Total Svoc :		**1,488.70**				
Q2543-02	TP-49	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	310.000	AB	0	0	ug/Kg
Q2543-02	TP-49	SOIL	Benzo[e]pyrene	*	150.000	J	0	0	ug/Kg
Q2543-02	TP-49	SOIL	Benzophenone	*	280.000	J	0	0	ug/Kg
Q2543-02	TP-49	SOIL	Butane, 2-methoxy-2-methyl-	*	610.000	J	0	0	ug/Kg
Q2543-02	TP-49	SOIL	Cyclohexadecane	*	160.000	J	0	0	ug/Kg
Q2543-02	TP-49	SOIL	n-Hexadecanoic acid	*	270.000	J	0	0	ug/Kg
			Total Tics :		**1,780.00**				
			Total Concentration:		**3,268.70**				
Client ID : TP-23									
Q2543-03	TP-23	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	170.000	AB	0	0	ug/Kg
Q2543-03	TP-23	SOIL	5-Eicosene, (E)-	*	79.900	J	0	0	ug/Kg
Q2543-03	TP-23	SOIL	Benzophenone	*	230.000	J	0	0	ug/Kg
Q2543-03	TP-23	SOIL	Butane, 2-methoxy-2-methyl-	*	410.000	J	0	0	ug/Kg
Q2543-03	TP-23	SOIL	n-Hexadecanoic acid	*	120.000	J	0	0	ug/Kg
			Total Tics :		**1,009.90**				
			Total Concentration:		**1,009.90**				
Client ID : TP-23-99									
Q2543-04	TP-23-99	SOIL	1-Nonadecene	*	83.400	J	0	0	ug/Kg
Q2543-04	TP-23-99	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	180.000	AB	0	0	ug/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q2543

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration		C	MDL	RDL	Units
Q2543-04	TP-23-99	SOIL	Benzophenone	*	220.000	J	0	0	ug/Kg
Q2543-04	TP-23-99	SOIL	Butane, 2-methoxy-2-methyl-	*	430.000	J	0	0	ug/Kg
Q2543-04	TP-23-99	SOIL	n-Hexadecanoic acid	*	110.000	J	0	0	ug/Kg
			Total Tics :		**1,023.40**				
			Total Concentration:		**1,023.40**				

SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-41	SDG No.:	Q2543
Lab Sample ID:	Q2543-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	82
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025143.D	1	07/10/25 09:55	07/15/25 13:07	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	190	U	190	400	ug/Kg
108-95-2	Phenol	26.9	U	26.9	210	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	29.6	U	29.6	210	ug/Kg
95-57-8	2-Chlorophenol	29.7	U	29.7	210	ug/Kg
95-48-7	2-Methylphenol	36.4	U	36.4	210	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	45.7	U	45.7	210	ug/Kg
98-86-2	Acetophenone	35.9	U	35.9	210	ug/Kg
65794-96-9	3+4-Methylphenols	50.1	U	50.1	400	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	57.7	U	57.7	97.4	ug/Kg
67-72-1	Hexachloroethane	21.4	U	21.4	210	ug/Kg
98-95-3	Nitrobenzene	22.3	U	22.3	210	ug/Kg
78-59-1	Isophorone	39.9	U	39.9	210	ug/Kg
88-75-5	2-Nitrophenol	70.9	U	70.9	210	ug/Kg
105-67-9	2,4-Dimethylphenol	78.9	U	78.9	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	37.5	U	37.5	210	ug/Kg
120-83-2	2,4-Dichlorophenol	34.5	U	34.5	210	ug/Kg
91-20-3	Naphthalene	27.6	U	27.6	210	ug/Kg
106-47-8	4-Chloroaniline	43.1	U	43.1	210	ug/Kg
87-68-3	Hexachlorobutadiene	30.8	UQ	30.8	210	ug/Kg
105-60-2	Caprolactam	63.5	U	63.5	400	ug/Kg
59-50-7	4-Chloro-3-methylphenol	35.0	U	35.0	210	ug/Kg
91-57-6	2-Methylnaphthalene	31.2	U	31.2	210	ug/Kg
77-47-4	Hexachlorocyclopentadiene	140	UQ	140	400	ug/Kg
88-06-2	2,4,6-Trichlorophenol	24.1	UQ	24.1	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	35.4	UQ	35.4	210	ug/Kg
92-52-4	1,1-Biphenyl	26.6	U	26.6	210	ug/Kg
91-58-7	2-Chloronaphthalene	27.4	U	27.4	210	ug/Kg
88-74-4	2-Nitroaniline	58.6	U	58.6	210	ug/Kg
131-11-3	Dimethylphthalate	33.0	U	33.0	210	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-41	SDG No.:	Q2543
Lab Sample ID:	Q2543-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	82
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025143.D	1	07/10/25 09:55	07/15/25 13:07	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	35.2	U	35.2	210	ug/Kg
606-20-2	2,6-Dinitrotoluene	40.9	U	40.9	210	ug/Kg
99-09-2	3-Nitroaniline	56.0	U	56.0	210	ug/Kg
83-32-9	Acenaphthene	25.9	U	25.9	210	ug/Kg
51-28-5	2,4-Dinitrophenol	280	U	280	400	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	400	ug/Kg
132-64-9	Dibenzofuran	27.6	U	27.6	210	ug/Kg
121-14-2	2,4-Dinitrotoluene	61.0	U	61.0	210	ug/Kg
84-66-2	Diethylphthalate	34.5	U	34.5	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	32.5	U	32.5	210	ug/Kg
86-73-7	Fluorene	30.8	U	30.8	210	ug/Kg
100-01-6	4-Nitroaniline	78.2	U	78.2	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	UQ	130	400	ug/Kg
86-30-6	n-Nitrosodiphenylamine	40.1	U	40.1	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	33.9	U	33.9	210	ug/Kg
118-74-1	Hexachlorobenzene	30.8	UQ	30.8	210	ug/Kg
1912-24-9	Atrazine	41.4	U	41.4	210	ug/Kg
87-86-5	Pentachlorophenol	62.5	U	62.5	400	ug/Kg
85-01-8	Phenanthrene	25.5	U	25.5	210	ug/Kg
120-12-7	Anthracene	40.6	U	40.6	210	ug/Kg
86-74-8	Carbazole	38.0	U	38.0	210	ug/Kg
84-74-2	Di-n-butylphthalate	58.3	U	58.3	210	ug/Kg
206-44-0	Fluoranthene	36.5	U	36.5	210	ug/Kg
129-00-0	Pyrene	43.8	U	43.8	210	ug/Kg
85-68-7	Butylbenzylphthalate	87.0	UQ	87.0	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	44.7	U	44.7	400	ug/Kg
56-55-3	Benzo(a)anthracene	28.0	U	28.0	210	ug/Kg
218-01-9	Chrysene	24.2	U	24.2	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	72.1	U	72.1	210	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	400	ug/Kg
205-99-2	Benzo(b)fluoranthene	23.1	U	23.1	210	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-41	SDG No.:	Q2543
Lab Sample ID:	Q2543-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	82
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025143.D	1	07/10/25 09:55	07/15/25 13:07	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	27.3	U	27.3	210	ug/Kg
50-32-8	Benzo(a)pyrene	35.9	UQ	35.9	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	35.4	UQ	35.4	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	33.4	U	33.4	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	31.3	U	31.3	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	31.2	U	31.2	210	ug/Kg
123-91-1	1,4-Dioxane	55.0	U	55.0	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	33.4	U	33.4	210	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	88.4		18 - 112	59%	SPK: 150
13127-88-3	Phenol-d6	77.1		15 - 107	51%	SPK: 150
4165-60-0	Nitrobenzene-d5	50.2		18 - 107	50%	SPK: 100
321-60-8	2-Fluorobiphenyl	46.0		20 - 109	46%	SPK: 100
118-79-6	2,4,6-Tribromophenol	93.6		10 - 116	62%	SPK: 150
1718-51-0	Terphenyl-d14	51.0		10 - 105	51%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	556000	7.443			
1146-65-2	Naphthalene-d8	2500000	10.19			
15067-26-2	Acenaphthene-d10	1660000	14.095			
1517-22-2	Phenanthrene-d10	3080000	16.919			
1719-03-5	Chrysene-d12	3160000	21.336			
1520-96-3	Perylene-d12	3830000	24.46			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	200	AB		4.66	ug/Kg
000119-61-9	Benzophenone	250	J		15.5	ug/Kg
000057-10-3	n-Hexadecanoic acid	310	J		17.9	ug/Kg
010192-32-2	1-Tetracosene	270	J		21.1	ug/Kg
018435-45-5	1-Nonadecene	180	J		22.3	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-41	SDG No.:	Q2543
Lab Sample ID:	Q2543-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	82
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025143.D	1	07/10/25 09:55	07/15/25 13:07	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-49	SDG No.:	Q2543
Lab Sample ID:	Q2543-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	73.9
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050394.D	1	07/10/25 09:55	07/10/25 17:58	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	210	U	210	450	ug/Kg
108-95-2	Phenol	29.9	U	29.9	230	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	32.9	U	32.9	230	ug/Kg
95-57-8	2-Chlorophenol	33.0	U	33.0	230	ug/Kg
95-48-7	2-Methylphenol	40.4	U	40.4	230	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	50.7	U	50.7	230	ug/Kg
98-86-2	Acetophenone	39.9	U	39.9	230	ug/Kg
65794-96-9	3+4-Methylphenols	55.6	U	55.6	450	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	64.1	U	64.1	110	ug/Kg
67-72-1	Hexachloroethane	23.8	U	23.8	230	ug/Kg
98-95-3	Nitrobenzene	24.7	U	24.7	230	ug/Kg
78-59-1	Isophorone	44.4	U	44.4	230	ug/Kg
88-75-5	2-Nitrophenol	78.7	U	78.7	230	ug/Kg
105-67-9	2,4-Dimethylphenol	87.6	U	87.6	230	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	41.7	U	41.7	230	ug/Kg
120-83-2	2,4-Dichlorophenol	38.3	U	38.3	230	ug/Kg
91-20-3	Naphthalene	30.7	U	30.7	230	ug/Kg
106-47-8	4-Chloroaniline	47.9	U	47.9	230	ug/Kg
87-68-3	Hexachlorobutadiene	34.2	UQ	34.2	230	ug/Kg
105-60-2	Caprolactam	70.5	U	70.5	450	ug/Kg
59-50-7	4-Chloro-3-methylphenol	38.8	U	38.8	230	ug/Kg
91-57-6	2-Methylnaphthalene	34.6	U	34.6	230	ug/Kg
77-47-4	Hexachlorocyclopentadiene	160	UQ	160	450	ug/Kg
88-06-2	2,4,6-Trichlorophenol	26.8	UQ	26.8	230	ug/Kg
95-95-4	2,4,5-Trichlorophenol	39.4	UQ	39.4	230	ug/Kg
92-52-4	1,1-Biphenyl	29.5	U	29.5	230	ug/Kg
91-58-7	2-Chloronaphthalene	30.4	U	30.4	230	ug/Kg
88-74-4	2-Nitroaniline	65.0	U	65.0	230	ug/Kg
131-11-3	Dimethylphthalate	36.6	U	36.6	230	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-49	SDG No.:	Q2543
Lab Sample ID:	Q2543-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	73.9
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050394.D	1	07/10/25 09:55	07/10/25 17:58	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	39.1	U	39.1	230	ug/Kg
606-20-2	2,6-Dinitrotoluene	45.4	U	45.4	230	ug/Kg
99-09-2	3-Nitroaniline	62.2	U	62.2	230	ug/Kg
83-32-9	Acenaphthene	28.8	U	28.8	230	ug/Kg
51-28-5	2,4-Dinitrophenol	310	U	310	450	ug/Kg
100-02-7	4-Nitrophenol	140	U	140	450	ug/Kg
132-64-9	Dibenzofuran	30.7	U	30.7	230	ug/Kg
121-14-2	2,4-Dinitrotoluene	67.7	U	67.7	230	ug/Kg
84-66-2	Diethylphthalate	38.3	U	38.3	230	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	36.1	U	36.1	230	ug/Kg
86-73-7	Fluorene	34.2	U	34.2	230	ug/Kg
100-01-6	4-Nitroaniline	86.8	U	86.8	230	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	140	UQ	140	450	ug/Kg
86-30-6	n-Nitrosodiphenylamine	44.5	U	44.5	230	ug/Kg
101-55-3	4-Bromophenyl-phenylether	37.6	U	37.6	230	ug/Kg
118-74-1	Hexachlorobenzene	34.2	UQ	34.2	230	ug/Kg
1912-24-9	Atrazine	46.0	U	46.0	230	ug/Kg
87-86-5	Pentachlorophenol	69.4	U	69.4	450	ug/Kg
85-01-8	Phenanthrene	28.3	U	28.3	230	ug/Kg
120-12-7	Anthracene	45.0	U	45.0	230	ug/Kg
86-74-8	Carbazole	42.2	U	42.2	230	ug/Kg
84-74-2	Di-n-butylphthalate	64.8	U	64.8	230	ug/Kg
206-44-0	Fluoranthene	310		40.6	230	ug/Kg
129-00-0	Pyrene	250		48.7	230	ug/Kg
85-68-7	Butylbenzylphthalate	96.6	UQ	96.6	230	ug/Kg
91-94-1	3,3-Dichlorobenzidine	49.6	U	49.6	450	ug/Kg
56-55-3	Benzo(a)anthracene	150	J	31.1	230	ug/Kg
218-01-9	Chrysene	170	J	26.9	230	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	80.1	U	80.1	230	ug/Kg
117-84-0	Di-n-octyl phthalate	120	U	120	450	ug/Kg
205-99-2	Benzo(b)fluoranthene	250		25.7	230	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-49	SDG No.:	Q2543
Lab Sample ID:	Q2543-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	73.9
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050394.D	1	07/10/25 09:55	07/10/25 17:58	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	92.6	J	30.3	230	ug/Kg
50-32-8	Benzo(a)pyrene	170	JQ	39.9	230	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	39.4	UQ	39.4	230	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	37.1	U	37.1	230	ug/Kg
191-24-2	Benzo(g,h,i)perylene	96.1	J	34.8	230	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	34.6	U	34.6	230	ug/Kg
123-91-1	1,4-Dioxane	61.1	U	61.1	230	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	37.1	U	37.1	230	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	126		18 - 112	84%	SPK: 150
13127-88-3	Phenol-d6	128		15 - 107	85%	SPK: 150
4165-60-0	Nitrobenzene-d5	75.8		18 - 107	76%	SPK: 100
321-60-8	2-Fluorobiphenyl	72.3		20 - 109	72%	SPK: 100
118-79-6	2,4,6-Tribromophenol	145		10 - 116	97%	SPK: 150
1718-51-0	Terphenyl-d14	69.8		10 - 105	70%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	578000	7.863			
1146-65-2	Naphthalene-d8	2140000	10.657			
15067-26-2	Acenaphthene-d10	1400000	14.492			
1517-22-2	Phenanthrene-d10	2860000	17.221			
1719-03-5	Chrysene-d12	3180000	21.45			
1520-96-3	Perylene-d12	2910000	24.491			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	610	J		3.04	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	310	AB		4.97	ug/Kg
000119-61-9	Benzophenone	280	J		15.8	ug/Kg
000057-10-3	n-Hexadecanoic acid	270	J		18.1	ug/Kg
000295-65-8	Cyclohexadecane	160	J		21.1	ug/Kg
000192-97-2	Benzo[e]pyrene	150	J		24.2	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-49	SDG No.:	Q2543
Lab Sample ID:	Q2543-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	73.9
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050394.D	1	07/10/25 09:55	07/10/25 17:58	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23	SDG No.:	Q2543
Lab Sample ID:	Q2543-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050402.D	1	07/10/25 09:55	07/10/25 23:19	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	390	ug/Kg
108-95-2	Phenol	26.0	U	26.0	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	28.6	U	28.6	200	ug/Kg
95-57-8	2-Chlorophenol	28.7	U	28.7	200	ug/Kg
95-48-7	2-Methylphenol	35.1	U	35.1	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	44.1	U	44.1	200	ug/Kg
98-86-2	Acetophenone	34.7	U	34.7	200	ug/Kg
65794-96-9	3+4-Methylphenols	48.3	U	48.3	390	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	55.7	U	55.7	94.0	ug/Kg
67-72-1	Hexachloroethane	20.7	U	20.7	200	ug/Kg
98-95-3	Nitrobenzene	21.5	U	21.5	200	ug/Kg
78-59-1	Isophorone	38.5	U	38.5	200	ug/Kg
88-75-5	2-Nitrophenol	68.4	U	68.4	200	ug/Kg
105-67-9	2,4-Dimethylphenol	76.1	U	76.1	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	36.2	U	36.2	200	ug/Kg
120-83-2	2,4-Dichlorophenol	33.2	U	33.2	200	ug/Kg
91-20-3	Naphthalene	26.7	U	26.7	200	ug/Kg
106-47-8	4-Chloroaniline	41.6	U	41.6	200	ug/Kg
87-68-3	Hexachlorobutadiene	29.7	UQ	29.7	200	ug/Kg
105-60-2	Caprolactam	61.2	U	61.2	390	ug/Kg
59-50-7	4-Chloro-3-methylphenol	33.7	U	33.7	200	ug/Kg
91-57-6	2-Methylnaphthalene	30.1	U	30.1	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	140	UQ	140	390	ug/Kg
88-06-2	2,4,6-Trichlorophenol	23.3	UQ	23.3	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	34.2	UQ	34.2	200	ug/Kg
92-52-4	1,1-Biphenyl	25.6	U	25.6	200	ug/Kg
91-58-7	2-Chloronaphthalene	26.4	U	26.4	200	ug/Kg
88-74-4	2-Nitroaniline	56.5	U	56.5	200	ug/Kg
131-11-3	Dimethylphthalate	31.8	U	31.8	200	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23	SDG No.:	Q2543
Lab Sample ID:	Q2543-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050402.D	1	07/10/25 09:55	07/10/25 23:19	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	34.0	U	34.0	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	39.5	U	39.5	200	ug/Kg
99-09-2	3-Nitroaniline	54.0	U	54.0	200	ug/Kg
83-32-9	Acenaphthene	25.0	U	25.0	200	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	390	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	390	ug/Kg
132-64-9	Dibenzofuran	26.7	U	26.7	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	58.9	U	58.9	200	ug/Kg
84-66-2	Diethylphthalate	33.2	U	33.2	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	31.4	U	31.4	200	ug/Kg
86-73-7	Fluorene	29.7	U	29.7	200	ug/Kg
100-01-6	4-Nitroaniline	75.4	U	75.4	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	UQ	120	390	ug/Kg
86-30-6	n-Nitrosodiphenylamine	38.7	U	38.7	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	32.7	U	32.7	200	ug/Kg
118-74-1	Hexachlorobenzene	29.7	UQ	29.7	200	ug/Kg
1912-24-9	Atrazine	39.9	U	39.9	200	ug/Kg
87-86-5	Pentachlorophenol	60.3	U	60.3	390	ug/Kg
85-01-8	Phenanthrene	24.6	U	24.6	200	ug/Kg
120-12-7	Anthracene	39.1	U	39.1	200	ug/Kg
86-74-8	Carbazole	36.7	U	36.7	200	ug/Kg
84-74-2	Di-n-butylphthalate	56.3	U	56.3	200	ug/Kg
206-44-0	Fluoranthene	35.2	U	35.2	200	ug/Kg
129-00-0	Pyrene	42.3	U	42.3	200	ug/Kg
85-68-7	Butylbenzylphthalate	83.9	UQ	83.9	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	43.1	U	43.1	390	ug/Kg
56-55-3	Benzo(a)anthracene	27.0	U	27.0	200	ug/Kg
218-01-9	Chrysene	23.4	U	23.4	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	69.6	U	69.6	200	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	390	ug/Kg
205-99-2	Benzo(b)fluoranthene	22.3	U	22.3	200	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23	SDG No.:	Q2543
Lab Sample ID:	Q2543-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050402.D	1	07/10/25 09:55	07/10/25 23:19	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	26.3	U	26.3	200	ug/Kg
50-32-8	Benzo(a)pyrene	34.7	UQ	34.7	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	34.2	UQ	34.2	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	32.2	U	32.2	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	30.2	U	30.2	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	30.1	U	30.1	200	ug/Kg
123-91-1	1,4-Dioxane	53.1	U	53.1	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	32.2	U	32.2	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	79.6		18 - 112	53%	SPK: 150
13127-88-3	Phenol-d6	80.4		15 - 107	54%	SPK: 150
4165-60-0	Nitrobenzene-d5	47.2		18 - 107	47%	SPK: 100
321-60-8	2-Fluorobiphenyl	40.8		20 - 109	41%	SPK: 100
118-79-6	2,4,6-Tribromophenol	87.6		10 - 116	58%	SPK: 150
1718-51-0	Terphenyl-d14	46.6		10 - 105	47%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	581000	7.863			
1146-65-2	Naphthalene-d8	2130000	10.657			
15067-26-2	Acenaphthene-d10	1370000	14.492			
1517-22-2	Phenanthrene-d10	2790000	17.221			
1719-03-5	Chrysene-d12	3010000	21.445			
1520-96-3	Perylene-d12	2990000	24.485			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	410	J		3.04	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	170	AB		4.97	ug/Kg
000119-61-9	Benzophenone	230	J		15.8	ug/Kg
000057-10-3	n-Hexadecanoic acid	120	J		18.1	ug/Kg
074685-30-6	5-Eicosene, (E)-	79.9	J		21.1	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23	SDG No.:	Q2543
Lab Sample ID:	Q2543-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050402.D	1	07/10/25 09:55	07/10/25 23:19	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23-99	SDG No.:	Q2543
Lab Sample ID:	Q2543-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.4
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050403.D	1	07/10/25 09:55	07/10/25 23:59	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	390	ug/Kg
108-95-2	Phenol	25.9	U	25.9	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	28.4	U	28.4	200	ug/Kg
95-57-8	2-Chlorophenol	28.5	U	28.5	200	ug/Kg
95-48-7	2-Methylphenol	35.0	U	35.0	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	43.9	U	43.9	200	ug/Kg
98-86-2	Acetophenone	34.5	U	34.5	200	ug/Kg
65794-96-9	3+4-Methylphenols	48.1	U	48.1	390	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	55.4	U	55.4	93.6	ug/Kg
67-72-1	Hexachloroethane	20.6	U	20.6	200	ug/Kg
98-95-3	Nitrobenzene	21.4	U	21.4	200	ug/Kg
78-59-1	Isophorone	38.4	U	38.4	200	ug/Kg
88-75-5	2-Nitrophenol	68.1	U	68.1	200	ug/Kg
105-67-9	2,4-Dimethylphenol	75.8	U	75.8	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	36.0	U	36.0	200	ug/Kg
120-83-2	2,4-Dichlorophenol	33.1	U	33.1	200	ug/Kg
91-20-3	Naphthalene	26.6	U	26.6	200	ug/Kg
106-47-8	4-Chloroaniline	41.4	U	41.4	200	ug/Kg
87-68-3	Hexachlorobutadiene	29.6	UQ	29.6	200	ug/Kg
105-60-2	Caprolactam	60.9	U	60.9	390	ug/Kg
59-50-7	4-Chloro-3-methylphenol	33.6	U	33.6	200	ug/Kg
91-57-6	2-Methylnaphthalene	29.9	U	29.9	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	140	UQ	140	390	ug/Kg
88-06-2	2,4,6-Trichlorophenol	23.2	UQ	23.2	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	34.0	UQ	34.0	200	ug/Kg
92-52-4	1,1-Biphenyl	25.5	U	25.5	200	ug/Kg
91-58-7	2-Chloronaphthalene	26.3	U	26.3	200	ug/Kg
88-74-4	2-Nitroaniline	56.3	U	56.3	200	ug/Kg
131-11-3	Dimethylphthalate	31.7	U	31.7	200	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23-99	SDG No.:	Q2543
Lab Sample ID:	Q2543-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.4
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050403.D	1	07/10/25 09:55	07/10/25 23:59	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	33.8	U	33.8	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	39.3	U	39.3	200	ug/Kg
99-09-2	3-Nitroaniline	53.8	U	53.8	200	ug/Kg
83-32-9	Acenaphthene	24.9	U	24.9	200	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	390	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	390	ug/Kg
132-64-9	Dibenzofuran	26.6	U	26.6	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	58.6	U	58.6	200	ug/Kg
84-66-2	Diethylphthalate	33.1	U	33.1	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	31.2	U	31.2	200	ug/Kg
86-73-7	Fluorene	29.6	U	29.6	200	ug/Kg
100-01-6	4-Nitroaniline	75.1	U	75.1	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	UQ	120	390	ug/Kg
86-30-6	n-Nitrosodiphenylamine	38.5	U	38.5	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	32.5	U	32.5	200	ug/Kg
118-74-1	Hexachlorobenzene	29.6	UQ	29.6	200	ug/Kg
1912-24-9	Atrazine	39.8	U	39.8	200	ug/Kg
87-86-5	Pentachlorophenol	60.0	U	60.0	390	ug/Kg
85-01-8	Phenanthrene	24.4	U	24.4	200	ug/Kg
120-12-7	Anthracene	39.0	U	39.0	200	ug/Kg
86-74-8	Carbazole	36.5	U	36.5	200	ug/Kg
84-74-2	Di-n-butylphthalate	56.0	U	56.0	200	ug/Kg
206-44-0	Fluoranthene	35.1	U	35.1	200	ug/Kg
129-00-0	Pyrene	42.1	U	42.1	200	ug/Kg
85-68-7	Butylbenzylphthalate	83.5	UQ	83.5	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	42.9	U	42.9	390	ug/Kg
56-55-3	Benzo(a)anthracene	26.9	U	26.9	200	ug/Kg
218-01-9	Chrysene	23.3	U	23.3	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	69.3	U	69.3	200	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	390	ug/Kg
205-99-2	Benzo(b)fluoranthene	22.2	U	22.2	200	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23-99	SDG No.:	Q2543
Lab Sample ID:	Q2543-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.4
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050403.D	1	07/10/25 09:55	07/10/25 23:59	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	26.2	U	26.2	200	ug/Kg
50-32-8	Benzo(a)pyrene	34.5	UQ	34.5	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	34.0	UQ	34.0	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	32.1	U	32.1	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	30.1	U	30.1	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	29.9	U	29.9	200	ug/Kg
123-91-1	1,4-Dioxane	52.9	U	52.9	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	32.1	U	32.1	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	83.1		18 - 112	55%	SPK: 150
13127-88-3	Phenol-d6	83.7		15 - 107	56%	SPK: 150
4165-60-0	Nitrobenzene-d5	49.7		18 - 107	50%	SPK: 100
321-60-8	2-Fluorobiphenyl	44.0		20 - 109	44%	SPK: 100
118-79-6	2,4,6-Tribromophenol	90.5		10 - 116	60%	SPK: 150
1718-51-0	Terphenyl-d14	50.5		10 - 105	50%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	639000	7.863			
1146-65-2	Naphthalene-d8	2330000	10.657			
15067-26-2	Acenaphthene-d10	1500000	14.486			
1517-22-2	Phenanthrene-d10	3030000	17.221			
1719-03-5	Chrysene-d12	3160000	21.444			
1520-96-3	Perylene-d12	2930000	24.48			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	430	J		3.04	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	180	AB		4.97	ug/Kg
000119-61-9	Benzophenone	220	J		15.8	ug/Kg
000057-10-3	n-Hexadecanoic acid	110	J		18.1	ug/Kg
018435-45-5	1-Nonadecene	83.4	J		21.1	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23-99	SDG No.:	Q2543
Lab Sample ID:	Q2543-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.4
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050403.D	1	07/10/25 09:55	07/10/25 23:59	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

QC SUMMARY

Alliance TECHNICAL GROUP
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Surrogate Summary

SW-846

SDG No.: Q2543

Client: CDM Smith

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB168787BL	PB168787BL	2-Fluorophenol	150	134	90		18	112
		Phenol-d6	150	126	84		15	107
		Nitrobenzene-d5	100	92.7	93		18	107
		2-Fluorobiphenyl	100	90.6	91		20	109
		2,4,6-Tribromophenol	150	155	103		10	116
		Terphenyl-d14	100	91.8	92		10	105
PB168787BS	PB168787BS	2-Fluorophenol	150	141	94		18	112
		Phenol-d6	150	118	78		15	107
		Nitrobenzene-d5	100	90.9	91		18	107
		2-Fluorobiphenyl	100	87.5	87		20	109
		2,4,6-Tribromophenol	150	149	99		10	116
		Terphenyl-d14	100	95.8	96		10	105
Q2543-01	TP-41	2-Fluorophenol	150	88.4	59		18	112
		Phenol-d6	150	77.1	51		15	107
		Nitrobenzene-d5	100	50.2	50		18	107
		2-Fluorobiphenyl	100	46.0	46		20	109
		2,4,6-Tribromophenol	150	93.6	62		10	116
		Terphenyl-d14	100	51.0	51		10	105
Q2543-02	TP-49	2-Fluorophenol	150	126	84		18	112
		Phenol-d6	150	128	85		15	107
		Nitrobenzene-d5	100	75.8	76		18	107
		2-Fluorobiphenyl	100	72.3	72		20	109
		2,4,6-Tribromophenol	150	145	97		10	116
		Terphenyl-d14	100	69.8	70		10	105
Q2543-02MS	TP-49MS	2-Fluorophenol	150	100	67		18	112
		Phenol-d6	150	101	67		15	107
		Nitrobenzene-d5	100	59.9	60		18	107
		2-Fluorobiphenyl	100	57.5	58		20	109
		2,4,6-Tribromophenol	150	116	77		10	116
		Terphenyl-d14	100	71.0	71		10	105
Q2543-02MSD	TP-49MSD	2-Fluorophenol	150	96.6	64		18	112
		Phenol-d6	150	96.5	64		15	107
		Nitrobenzene-d5	100	59.3	59		18	107
		2-Fluorobiphenyl	100	57.6	58		20	109
		2,4,6-Tribromophenol	150	109	73		10	116
		Terphenyl-d14	100	70.1	70		10	105
Q2543-03	TP-23	2-Fluorophenol	150	79.6	53		18	112
		Phenol-d6	150	80.4	54		15	107
		Nitrobenzene-d5	100	47.2	47		18	107
		2-Fluorobiphenyl	100	40.8	41		20	109
		2,4,6-Tribromophenol	150	87.6	58		10	116
		Terphenyl-d14	100	46.6	47		10	105
Q2543-04	TP-23-99	2-Fluorophenol	150	83.1	55		18	112
		Phenol-d6	150	83.7	56		15	107
		Nitrobenzene-d5	100	49.7	50		18	107
		2-Fluorobiphenyl	100	44.0	44		20	109
		2,4,6-Tribromophenol	150	90.5	60		10	116
		Terphenyl-d14	100	50.5	50		10	105

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2543 **Analytical Method:** SW8270E

Client: CDM Smith **DataFile:** BM050395.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q2543-02MS		**Client Sample ID: TP-49MS**									
Benzaldehyde	2300	0	2000	ug/Kg	87				10	171	
Phenol	2300	0	2100	ug/Kg	91				51	122	
bis(2-Chloroethyl)ether	2300	0	2000	ug/Kg	87				54	125	
2-Chlorophenol	2300	0	2100	ug/Kg	91				51	121	
2-Methylphenol	2300	0	2100	ug/Kg	91				47	125	
2,2-oxybis(1-Chloropropane)	2300	0	1900	ug/Kg	83				46	119	
Acetophenone	2300	0	2000	ug/Kg	87				55	128	
3+4-Methylphenols	2300	0	2100	ug/Kg	91				49	125	
N-Nitroso-di-n-propylamine	2300	0	2100	ug/Kg	91				59	119	
Hexachloroethane	2300	0	1900	ug/Kg	83				51	116	
Nitrobenzene	2300	0	2000	ug/Kg	87				47	124	
Isophorone	2300	0	2100	ug/Kg	91				49	127	
2-Nitrophenol	2300	0	2300	ug/Kg	100				43	131	
2,4-Dimethylphenol	2300	0	2100	ug/Kg	91				63	151	
bis(2-Chloroethoxy)methane	2300	0	2000	ug/Kg	87				51	119	
2,4-Dichlorophenol	2300	0	2200	ug/Kg	96				50	122	
Naphthalene	2300	0	2000	ug/Kg	87				51	121	
4-Chloroaniline	2300	0	600	ug/Kg	26				10	100	
Hexachlorobutadiene	2300	0	2000	ug/Kg	87				44	126	
Caprolactam	2300	0	2200	ug/Kg	96				51	134	
4-Chloro-3-methylphenol	2300	0	2200	ug/Kg	96				57	132	
2-Methylnaphthalene	2300	0	2100	ug/Kg	91				59	123	
Hexachlorocyclopentadiene	4500	0	4200	ug/Kg	93				10	175	
2,4,6-Trichlorophenol	2300	0	2200	ug/Kg	96				33	141	
2,4,5-Trichlorophenol	2300	0	2200	ug/Kg	96				38	135	
1,1-Biphenyl	2300	0	2000	ug/Kg	87				55	131	
2-Chloronaphthalene	2300	0	2000	ug/Kg	87				48	124	
2-Nitroaniline	2300	0	2200	ug/Kg	96				47	134	
Dimethylphthalate	2300	0	2100	ug/Kg	91				54	120	
Acenaphthylene	2300	0	2100	ug/Kg	91				57	125	
2,6-Dinitrotoluene	2300	0	2200	ug/Kg	96				48	127	
3-Nitroaniline	2300	0	990	ug/Kg	43				10	112	
Acenaphthene	2300	0	2200	ug/Kg	96				70	121	
2,4-Dinitrophenol	4500	0	3700	ug/Kg	82				10	155	
4-Nitrophenol	4500	0	4600	ug/Kg	102				10	175	
Dibenzofuran	2300	0	2000	ug/Kg	87				52	114	
2,4-Dinitrotoluene	2300	0	2100	ug/Kg	91				41	140	
Diethylphthalate	2300	0	2100	ug/Kg	91				51	119	
4-Chlorophenyl-phenylether	2300	0	2100	ug/Kg	91				48	122	
Fluorene	2300	0	2100	ug/Kg	91				53	118	
4-Nitroaniline	2300	0	1900	ug/Kg	83				29	140	
4,6-Dinitro-2-methylphenol	2300	0	1900	ug/Kg	83				10	160	
N-Nitrosodiphenylamine	2300	0	2100	ug/Kg	91				73	118	
4-Bromophenyl-phenylether	2300	0	2200	ug/Kg	96				65	121	
Hexachlorobenzene	2300	0	2100	ug/Kg	91				67	118	
Atrazine	2300	0	2300	ug/Kg	100				45	175	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2543 **Analytical Method:** SW8270E

Client: CDM Smith **DataFile:** BM050395.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Pentachlorophenol	4500	0	4600	ug/Kg	102				13	153	
Phenanthrene	2300	0	2100	ug/Kg	91				52	128	
Anthracene	2300	0	2100	ug/Kg	91				62	124	
Carbazole	2300	0	2100	ug/Kg	91				59	119	
Di-n-butylphthalate	2300	0	2300	ug/Kg	100				55	125	
Fluoranthene	2300	310	2400	ug/Kg	91				44	125	
Pyrene	2300	250	2700	ug/Kg	107				37	122	
Butylbenzylphthalate	2300	0	2700	ug/Kg	117				44	135	
3,3-Dichlorobenzidine	2300	0	1000	ug/Kg	43				15	112	
Benzo(a)anthracene	2300	150	2300	ug/Kg	93				53	119	
Chrysene	2300	170	2200	ug/Kg	88				57	121	
bis(2-Ethylhexyl)phthalate	2300	0	2600	ug/Kg	113				42	169	
Di-n-octyl phthalate	2300	0	2400	ug/Kg	104				51	156	
Benzo(b)fluoranthene	2300	250	2400	ug/Kg	93				52	117	
Benzo(k)fluoranthene	2300	92.6	2200	ug/Kg	92				57	134	
Benzo(a)pyrene	2300	170	2300	ug/Kg	93				70	142	
Indeno(1,2,3-cd)pyrene	2300	0	2100	ug/Kg	91				40	129	
Dibenz(a,h)anthracene	2300	0	2000	ug/Kg	87				43	123	
Benzo(g,h,i)perylene	2300	96.1	2100	ug/Kg	87				24	125	
1,2,4,5-Tetrachlorobenzene	2300	0	2100	ug/Kg	91				52	134	
1,4-Dioxane	2300	0	1600	ug/Kg	70				46	112	
2,3,4,6-Tetrachlorophenol	2300	0	2300	ug/Kg	100				24	146	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2543 **Analytical Method:** SW8270E

Client: CDM Smith **DataFile:** BM050396.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q2543-02MSD		**Client Sample ID: TP-49MSD**									
Benzaldehyde	2300	0	1900	ug/Kg	83		5		10	171	20
Phenol	2300	0	2000	ug/Kg	87		4		51	122	20
bis(2-Chloroethyl)ether	2300	0	1900	ug/Kg	83		5		54	125	20
2-Chlorophenol	2300	0	2000	ug/Kg	87		4		51	121	20
2-Methylphenol	2300	0	2000	ug/Kg	87		4		47	125	20
2,2-oxybis(1-Chloropropane)	2300	0	1800	ug/Kg	78		6		46	119	20
Acetophenone	2300	0	1900	ug/Kg	83		5		55	128	20
3+4-Methylphenols	2300	0	2000	ug/Kg	87		4		49	125	20
N-Nitroso-di-n-propylamine	2300	0	1900	ug/Kg	83		9		59	119	20
Hexachloroethane	2300	0	1900	ug/Kg	83		0		51	116	20
Nitrobenzene	2300	0	2000	ug/Kg	87		0		47	124	20
Isophorone	2300	0	2000	ug/Kg	87		4		49	127	20
2-Nitrophenol	2300	0	2300	ug/Kg	100		0		43	131	20
2,4-Dimethylphenol	2300	0	2100	ug/Kg	91		0		63	151	20
bis(2-Chloroethoxy)methane	2300	0	2000	ug/Kg	87		0		51	119	20
2,4-Dichlorophenol	2300	0	2100	ug/Kg	91		5		50	122	20
Naphthalene	2300	0	1900	ug/Kg	83		5		51	121	20
4-Chloroaniline	2300	0	640	ug/Kg	28		7		10	100	20
Hexachlorobutadiene	2300	0	2000	ug/Kg	87		0		44	126	20
Caprolactam	2300	0	2100	ug/Kg	91		5		51	134	20
4-Chloro-3-methylphenol	2300	0	2100	ug/Kg	91		5		57	132	20
2-Methylnaphthalene	2300	0	2000	ug/Kg	87		4		59	123	20
Hexachlorocyclopentadiene	4500	0	4200	ug/Kg	93		0		10	175	20
2,4,6-Trichlorophenol	2300	0	2200	ug/Kg	96		0		33	141	20
2,4,5-Trichlorophenol	2300	0	2200	ug/Kg	96		0		38	135	20
1,1-Biphenyl	2300	0	2000	ug/Kg	87		0		55	131	20
2-Chloronaphthalene	2300	0	2000	ug/Kg	87		0		48	124	20
2-Nitroaniline	2300	0	2200	ug/Kg	96		0		47	134	20
Dimethylphthalate	2300	0	2000	ug/Kg	87		4		54	120	20
Acenaphthylene	2300	0	2100	ug/Kg	91		0		57	125	20
2,6-Dinitrotoluene	2300	0	2200	ug/Kg	96		0		48	127	20
3-Nitroaniline	2300	0	940	ug/Kg	41		5		10	112	20
Acenaphthene	2300	0	2100	ug/Kg	91		5		70	121	20
2,4-Dinitrophenol	4500	0	3500	ug/Kg	78		5		10	155	20
4-Nitrophenol	4500	0	4300	ug/Kg	96		6		10	175	20
Dibenzofuran	2300	0	2000	ug/Kg	87		0		52	114	20
2,4-Dinitrotoluene	2300	0	2000	ug/Kg	87		4		41	140	20
Diethylphthalate	2300	0	2000	ug/Kg	87		4		51	119	20
4-Chlorophenyl-phenylether	2300	0	2000	ug/Kg	87		4		48	122	20
Fluorene	2300	0	2000	ug/Kg	87		4		53	118	20
4-Nitroaniline	2300	0	1800	ug/Kg	78		6		29	140	20
4,6-Dinitro-2-methylphenol	2300	0	1900	ug/Kg	83		0		10	160	20
N-Nitrosodiphenylamine	2300	0	2100	ug/Kg	91		0		73	118	20
4-Bromophenyl-phenylether	2300	0	2200	ug/Kg	96		0		65	121	20
Hexachlorobenzene	2300	0	2100	ug/Kg	91		0		67	118	20
Atrazine	2300	0	2200	ug/Kg	96		4		45	175	20

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2543 **Analytical Method:** SW8270E

Client: CDM Smith **DataFile:** BM050396.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Pentachlorophenol	4500	0	4500	ug/Kg	100		2		13	153	20
Phenanthrene	2300	0	2000	ug/Kg	87		4		52	128	20
Anthracene	2300	0	2100	ug/Kg	91		0		62	124	20
Carbazole	2300	0	2000	ug/Kg	87		4		59	119	20
Di-n-butylphthalate	2300	0	2200	ug/Kg	96		4		55	125	20
Fluoranthene	2300	310	2200	ug/Kg	82		10		44	125	20
Pyrene	2300	250	2600	ug/Kg	102		5		37	122	20
Butylbenzylphthalate	2300	0	2600	ug/Kg	113		3		44	135	20
3,3-Dichlorobenzidine	2300	0	1100	ug/Kg	48		11		15	112	20
Benzo(a)anthracene	2300	150	2200	ug/Kg	89		4		53	119	20
Chrysene	2300	170	2200	ug/Kg	88		0		57	121	20
bis(2-Ethylhexyl)phthalate	2300	0	2400	ug/Kg	104		8		42	169	20
Di-n-octyl phthalate	2300	0	2400	ug/Kg	104		0		51	156	20
Benzo(b)fluoranthene	2300	250	2300	ug/Kg	89		4		52	117	20
Benzo(k)fluoranthene	2300	92.6	2200	ug/Kg	92		0		57	134	20
Benzo(a)pyrene	2300	170	2300	ug/Kg	93		0		70	142	20
Indeno(1,2,3-cd)pyrene	2300	0	2200	ug/Kg	96		5		40	129	20
Dibenz(a,h)anthracene	2300	0	2100	ug/Kg	91		4		43	123	20
Benzo(g,h,i)perylene	2300	96.1	2200	ug/Kg	91		4		24	125	20
1,2,4,5-Tetrachlorobenzene	2300	0	2100	ug/Kg	91		0		52	134	20
1,4-Dioxane	2300	0	1600	ug/Kg	70		0		46	112	20
2,3,4,6-Tetrachlorophenol	2300	0	2200	ug/Kg	96		4		24	146	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2543 **Analytical Method:** 8270E

Client: CDM Smith **DataFile:** BP025140.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168787BS	Benzaldehyde	1700	1500	ug/Kg	88				10	133	
	Phenol	1700	1500	ug/Kg	88				62	112	
	bis(2-Chloroethyl)ether	1700	1400	ug/Kg	82				60	101	
	2-Chlorophenol	1700	1600	ug/Kg	94				65	112	
	2-Methylphenol	1700	1600	ug/Kg	94				61	108	
	2,2-oxybis(1-Chloropropane)	1700	1400	ug/Kg	82				51	100	
	Acetophenone	1700	1400	ug/Kg	82				66	98	
	3+4-Methylphenols	1700	1500	ug/Kg	88				58	111	
	N-Nitroso-di-n-propylamine	1700	1400	ug/Kg	82				63	95	
	Hexachloroethane	1700	1600	ug/Kg	94				72	108	
	Nitrobenzene	1700	1600	ug/Kg	94				57	101	
	Isophorone	1700	1600	ug/Kg	94				59	99	
	2-Nitrophenol	1700	1800	ug/Kg	106				61	111	
	2,4-Dimethylphenol	1700	2200	ug/Kg	129				46	141	
	bis(2-Chloroethoxy)methane	1700	1500	ug/Kg	88				66	97	
	2,4-Dichlorophenol	1700	1600	ug/Kg	94				62	107	
	Naphthalene	1700	1500	ug/Kg	88				62	100	
	4-Chloroaniline	1700	910	ug/Kg	54				16	100	
	Hexachlorobutadiene	1700	1700	ug/Kg	100		*		53	98	
	Caprolactam	1700	1500	ug/Kg	88				67	110	
	4-Chloro-3-methylphenol	1700	1500	ug/Kg	88				58	112	
	2-Methylnaphthalene	1700	1300	ug/Kg	76				60	104	
	Hexachlorocyclopentadiene	3300	8000	ug/Kg	242		*		45	165	
	2,4,6-Trichlorophenol	1700	1800	ug/Kg	106		*		59	102	
	2,4,5-Trichlorophenol	1700	1700	ug/Kg	100		*		61	98	
	1,1-Biphenyl	1700	1500	ug/Kg	88				57	103	
	2-Chloronaphthalene	1700	1600	ug/Kg	94				58	99	
	2-Nitroaniline	1700	1600	ug/Kg	94				66	101	
	Dimethylphthalate	1700	1500	ug/Kg	88				61	99	
	Acenaphthylene	1700	1700	ug/Kg	100				63	101	
	2,6-Dinitrotoluene	1700	1700	ug/Kg	100				61	104	
	3-Nitroaniline	1700	1100	ug/Kg	65				28	100	
	Acenaphthene	1700	1500	ug/Kg	88				57	104	
	2,4-Dinitrophenol	3300	4000	ug/Kg	121				37	128	
	4-Nitrophenol	3300	3300	ug/Kg	100				48	119	
	Dibenzofuran	1700	1400	ug/Kg	82				63	99	
	2,4-Dinitrotoluene	1700	1700	ug/Kg	100				60	106	
	Diethylphthalate	1700	1500	ug/Kg	88				60	101	
	4-Chlorophenyl-phenylether	1700	1500	ug/Kg	88				58	98	
	Fluorene	1700	1500	ug/Kg	88				61	101	
	4-Nitroaniline	1700	1600	ug/Kg	94				64	103	
	4,6-Dinitro-2-methylphenol	1700	2000	ug/Kg	118		*		76	113	
	N-Nitrosodiphenylamine	1700	1600	ug/Kg	94				71	99	
	4-Bromophenyl-phenylether	1700	1700	ug/Kg	100				66	102	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2543 **Analytical Method:** 8270E

Client: CDM Smith **DataFile:** BP025140.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168787BS	Hexachlorobenzene	1700	1700	ug/Kg	100		*		64	98	
	Atrazine	1700	2100	ug/Kg	124				47	152	
	Pentachlorophenol	3300	3400	ug/Kg	103				67	105	
	Phenanthrene	1700	1600	ug/Kg	94				59	103	
	Anthracene	1700	1600	ug/Kg	94				61	105	
	Carbazole	1700	1600	ug/Kg	94				61	99	
	Di-n-butylphthalate	1700	1700	ug/Kg	100				58	104	
	Fluoranthene	1700	1600	ug/Kg	94				57	107	
	Pyrene	1700	1600	ug/Kg	94				59	103	
	Butylbenzylphthalate	1700	1800	ug/Kg	106		*		55	103	
	3,3-Dichlorobenzidine	1700	1400	ug/Kg	82				42	91	
	Benzo(a)anthracene	1700	1600	ug/Kg	94				60	102	
	Chrysene	1700	1600	ug/Kg	94				59	101	
	bis(2-Ethylhexyl)phthalate	1700	1900	ug/Kg	112				54	135	
	Di-n-octyl phthalate	1700	1800	ug/Kg	106				52	137	
	Benzo(b)fluoranthene	1700	1500	ug/Kg	88				62	109	
	Benzo(k)fluoranthene	1700	1600	ug/Kg	94				62	109	
	Benzo(a)pyrene	1700	1800	ug/Kg	106		*		63	103	
	Indeno(1,2,3-cd)pyrene	1700	1800	ug/Kg	106		*		63	101	
	Dibenz(a,h)anthracene	1700	1800	ug/Kg	106				61	112	
	Benzo(g,h,i)perylene	1700	1700	ug/Kg	100				70	108	
	1,2,4,5-Tetrachlorobenzene	1700	1600	ug/Kg	94				53	101	
	1,4-Dioxane	1700	1300	ug/Kg	76				50	96	
	2,3,4,6-Tetrachlorophenol	1700	1700	ug/Kg	100				59	108	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID: PB168787BL

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2543

Lab File ID: BP025099.D | Lab Sample ID: PB168787BL

Instrument ID: BNA_P | Date Extracted: 07/10/2025

Matrix: (soil/water) SOIL | Date Analyzed: 07/11/2025

Level: (low/med) LOW | Time Analyzed: 11:08

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168787BS	PB168787BS	BP025140.D	07/15/2025
TP-41	Q2543-01	BP025143.D	07/15/2025
TP-49	Q2543-02	BM050394.D	07/10/2025
TP-49MS	Q2543-02MS	BM050395.D	07/10/2025
TP-49MSD	Q2543-02MSD	BM050396.D	07/10/2025
TP-23	Q2543-03	BM050402.D	07/10/2025
TP-23-99	Q2543-04	BM050403.D	07/10/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2543

Lab File ID: BM050376.D DFTPP Injection Date: 07/08/2025

Instrument ID: BNA_M DFTPP Injection Time: 11:59

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.5 (1.5) 1
69	Mass 69 relative abundance	33.9
70	Less than 2.0% of mass 69	0.2 (0.5) 1
197	Less than 2.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	10.5
442	Greater than 50% of mass 198	66.5
443	15.0 - 24.0% of mass 442	12.9 (19.4) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BM050377.D	07/08/2025	12:39
SSTDICC005	SSTDICC005	BM050378.D	07/08/2025	13:19
SSTDICC010	SSTDICC010	BM050379.D	07/08/2025	14:00
SSTDICC020	SSTDICC020	BM050380.D	07/08/2025	14:40
SSTDICCC040	SSTDICCC040	BM050381.D	07/08/2025	15:20
SSTDICC050	SSTDICC050	BM050382.D	07/08/2025	16:01
SSTDICC060	SSTDICC060	BM050383.D	07/08/2025	16:41
SSTDICC080	SSTDICC080	BM050384.D	07/08/2025	17:22

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2543

Lab File ID: BM050387.D DFTPP Injection Date: 07/10/2025

Instrument ID: BNA_M DFTPP Injection Time: 13:13

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.5 (1.5) 1
69	Mass 69 relative abundance	33.1
70	Less than 2.0% of mass 69	0.2 (0.6) 1
197	Less than 2.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	10.4
442	Greater than 50% of mass 198	68
443	15.0 - 24.0% of mass 442	13.2 (19.5) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BM050388.D	07/10/2025	13:53
TP-49	Q2543-02	BM050394.D	07/10/2025	17:58
TP-49MS	Q2543-02MS	BM050395.D	07/10/2025	18:38
TP-49MSD	Q2543-02MSD	BM050396.D	07/10/2025	19:18
TP-23	Q2543-03	BM050402.D	07/10/2025	23:19
TP-23-99	Q2543-04	BM050403.D	07/10/2025	23:59

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2543

Lab File ID: BP025070.D DFTPP Injection Date: 07/03/2025

Instrument ID: BNA_P DFTPP Injection Time: 08:58

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.5 (1.7) 1
69	Mass 69 relative abundance	31.4
70	Less than 2.0% of mass 69	0.1 (0.4) 1
197	Less than 2.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
365	Greater than 1% of mass 198	3.7
441	Present, but less than mass 443	14.3
442	Greater than 50% of mass 198	92.8
443	15.0 - 24.0% of mass 442	18 (19.4) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BP025071.D	07/03/2025	09:39
SSTDICC005	SSTDICC005	BP025072.D	07/03/2025	10:21
SSTDICC010	SSTDICC010	BP025073.D	07/03/2025	11:02
SSTDICC020	SSTDICC020	BP025074.D	07/03/2025	11:44
SSTDICCC040	SSTDICCC040	BP025075.D	07/03/2025	12:25
SSTDICC050	SSTDICC050	BP025076.D	07/03/2025	13:07
SSTDICC060	SSTDICC060	BP025077.D	07/03/2025	13:49
SSTDICC080	SSTDICC080	BP025078.D	07/03/2025	14:31

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2543

Lab File ID: BP025097.D DFTPP Injection Date: 07/11/2025

Instrument ID: BNA_P DFTPP Injection Time: 09:04

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.5 (1.7) 1
69	Mass 69 relative abundance	30
70	Less than 2.0% of mass 69	0.1 (0.5) 1
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	14.5
442	Greater than 50% of mass 198	94.3
443	15.0 - 24.0% of mass 442	18.4 (19.5) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BP025098.D	07/11/2025	10:26
PB168787BL	PB168787BL	BP025099.D	07/11/2025	11:08

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2543

Lab File ID: BP025137.D DFTPP Injection Date: 07/15/2025

Instrument ID: BNA_P DFTPP Injection Time: 08:55

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.5 (1.7) 1
69	Mass 69 relative abundance	29.9
70	Less than 2.0% of mass 69	0.2 (0.5) 1
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	14.5
442	Greater than 50% of mass 198	92.6
443	15.0 - 24.0% of mass 442	18.1 (19.6) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BP025138.D	07/15/2025	09:36
PB168787BS	PB168787BS	BP025140.D	07/15/2025	10:58
TP-41	Q2543-01	BP025143.D	07/15/2025	13:07

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2543

Client ID : SSTDCCC040 Date Analyzed: 07/10/2025

Lab File ID: BM050388.D Time Analyzed: 13:53

Instrument ID: BNA_M GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	446689	7.863	1689420	10.66	1077980	14.49
	UPPER LIMIT	893378	8.363	3378840	11.157	2155960	14.992
	LOWER LIMIT	223345	7.363	844710	10.157	538990	13.992
	EPA SAMPLE NO.						
01	TP-49	577892	7.86	2139760	10.66	1403470	14.49
02	TP-49MS	627832	7.86	2379650	10.66	1542630	14.49
03	TP-49MSD	614645	7.86	2249890	10.66	1411020	14.49
04	TP-23	581438	7.86	2127800	10.66	1370950	14.49
05	TP-23-99	639438	7.86	2330150	10.66	1499850	14.49

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2543

Client ID: SSTDCCC040 Date Analyzed: 07/10/2025

Lab File ID: BM050388.D Time Analyzed: 13:53

Instrument ID: BNA_M GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	2057470	17.227	2112610	21.45	2045330	24.491
	UPPER LIMIT	4114940	17.727	4225220	21.95	4090660	24.991
	LOWER LIMIT	1028740	16.727	1056310	20.95	1022670	23.991
	EPA SAMPLE NO.						
01	TP-49	2861160	17.22	3176120	21.45	2913680	24.49
02	TP-49MS	3030620	17.23	2721660	21.46	2168250	24.49
03	TP-49MSD	2620470	17.23	2225730	21.45	2052960	24.49
04	TP-23	2792860	17.22	3011880	21.45	2989150	24.49
05	TP-23-99	3029760	17.22	3157430	21.44	2929700	24.48

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2543

Client ID : SSTDCCC040 Date Analyzed: 07/11/2025

Lab File ID: BP025098.D Time Analyzed: 10:26

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	436580	7.437	1693300	10.18	1072860	14.10
	UPPER LIMIT	873160	7.937	3386600	10.684	2145720	14.595
	LOWER LIMIT	218290	6.937	846650	9.684	536430	13.595
	EPA SAMPLE NO.						
01	PB168787BL	435629	7.44	1705700	10.18	1062770	14.08

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2543

Client ID: SSTDCCC040 Date Analyzed: 07/11/2025

Lab File ID: BP025098.D Time Analyzed: 10:26

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	2205220	16.907	2437720	21.342	2833280	24.465
	UPPER LIMIT	4410440	17.407	4875440	21.842	5666560	24.965
	LOWER LIMIT	1102610	16.407	1218860	20.842	1416640	23.965
	EPA SAMPLE NO.						
01	PB168787BL	2270220	16.90	2488980	21.34	2769160	24.46

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2543

Client ID : SSTDCCC040 Date Analyzed: 07/15/2025

Lab File ID: BP025138.D Time Analyzed: 09:36

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	539286	7.443	1912690	10.18	1092260	14.08
	UPPER LIMIT	1078570	7.943	3825380	10.684	2184520	14.584
	LOWER LIMIT	269643	6.943	956345	9.684	546130	13.584
	EPA SAMPLE NO.						
01	PB168787BS	578947	7.44	2205740	10.18	1344570	14.08
02	TP-41	556317	7.44	2503670	10.19	1662470	14.10

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2543

Client ID: SSTDCCC040 Date Analyzed: 07/15/2025

Lab File ID: BP025138.D Time Analyzed: 09:36

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	2112950	16.89	2423210	21.336	2977610	24.466
	UPPER LIMIT	4225900	17.39	4846420	21.836	5955220	24.966
	LOWER LIMIT	1056480	16.39	1211610	20.836	1488810	23.966
	EPA SAMPLE NO.						
01	PB168787BS	2600630	16.90	2649430	21.35	2985170	24.47
02	TP-41	3076520	16.92	3157080	21.34	3825650	24.46

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168787BL	SDG No.:	Q2543
Lab Sample ID:	PB168787BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025099.D	1	07/10/25 09:55	07/11/25 11:08	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	160	U	160	330	ug/Kg
108-95-2	Phenol	22.1	U	22.1	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	24.3	U	24.3	170	ug/Kg
95-57-8	2-Chlorophenol	24.4	U	24.4	170	ug/Kg
95-48-7	2-Methylphenol	29.9	U	29.9	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	37.5	U	37.5	170	ug/Kg
98-86-2	Acetophenone	29.5	U	29.5	170	ug/Kg
65794-96-9	3+4-Methylphenols	41.1	U	41.1	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	47.4	U	47.4	79.9	ug/Kg
67-72-1	Hexachloroethane	17.6	U	17.6	170	ug/Kg
98-95-3	Nitrobenzene	18.3	U	18.3	170	ug/Kg
78-59-1	Isophorone	32.8	U	32.8	170	ug/Kg
88-75-5	2-Nitrophenol	58.2	U	58.2	170	ug/Kg
105-67-9	2,4-Dimethylphenol	64.8	U	64.8	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	30.8	U	30.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	28.3	U	28.3	170	ug/Kg
91-20-3	Naphthalene	22.7	U	22.7	170	ug/Kg
106-47-8	4-Chloroaniline	35.4	U	35.4	170	ug/Kg
87-68-3	Hexachlorobutadiene	25.3	U	25.3	170	ug/Kg
105-60-2	Caprolactam	52.1	U	52.1	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	28.7	U	28.7	170	ug/Kg
91-57-6	2-Methylnaphthalene	25.6	U	25.6	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	120	U	120	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	19.8	U	19.8	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	29.1	U	29.1	170	ug/Kg
92-52-4	1,1-Biphenyl	21.8	U	21.8	170	ug/Kg
91-58-7	2-Chloronaphthalene	22.5	U	22.5	170	ug/Kg
88-74-4	2-Nitroaniline	48.1	U	48.1	170	ug/Kg
131-11-3	Dimethylphthalate	27.1	U	27.1	170	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168787BL	SDG No.:	Q2543
Lab Sample ID:	PB168787BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025099.D	1	07/10/25 09:55	07/11/25 11:08	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	28.9	U	28.9	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	33.6	U	33.6	170	ug/Kg
99-09-2	3-Nitroaniline	46.0	U	46.0	170	ug/Kg
83-32-9	Acenaphthene	21.3	U	21.3	170	ug/Kg
51-28-5	2,4-Dinitrophenol	230	U	230	330	ug/Kg
100-02-7	4-Nitrophenol	110	U	110	330	ug/Kg
132-64-9	Dibenzofuran	22.7	U	22.7	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	50.1	U	50.1	170	ug/Kg
84-66-2	Diethylphthalate	28.3	U	28.3	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	26.7	U	26.7	170	ug/Kg
86-73-7	Fluorene	25.3	U	25.3	170	ug/Kg
100-01-6	4-Nitroaniline	64.2	U	64.2	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	100	U	100	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	32.9	U	32.9	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	27.8	U	27.8	170	ug/Kg
118-74-1	Hexachlorobenzene	25.3	U	25.3	170	ug/Kg
1912-24-9	Atrazine	34.0	U	34.0	170	ug/Kg
87-86-5	Pentachlorophenol	51.3	U	51.3	330	ug/Kg
85-01-8	Phenanthrene	20.9	U	20.9	170	ug/Kg
120-12-7	Anthracene	33.3	U	33.3	170	ug/Kg
86-74-8	Carbazole	31.2	U	31.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	47.9	U	47.9	170	ug/Kg
206-44-0	Fluoranthene	30.0	U	30.0	170	ug/Kg
129-00-0	Pyrene	36.0	U	36.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	71.4	U	71.4	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	36.7	U	36.7	330	ug/Kg
56-55-3	Benzo(a)anthracene	23.0	U	23.0	170	ug/Kg
218-01-9	Chrysene	19.9	U	19.9	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	59.2	U	59.2	170	ug/Kg
117-84-0	Di-n-octyl phthalate	86.7	U	86.7	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	19.0	U	19.0	170	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168787BL	SDG No.:	Q2543
Lab Sample ID:	PB168787BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025099.D	1	07/10/25 09:55	07/11/25 11:08	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	22.4	U	22.4	170	ug/Kg
50-32-8	Benzo(a)pyrene	29.5	U	29.5	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	29.1	U	29.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	27.4	U	27.4	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	25.7	U	25.7	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	25.6	U	25.6	170	ug/Kg
123-91-1	1,4-Dioxane	45.2	U	45.2	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	27.4	U	27.4	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	134		18 - 112	90%	SPK: 150
13127-88-3	Phenol-d6	126		15 - 107	84%	SPK: 150
4165-60-0	Nitrobenzene-d5	92.7		18 - 107	93%	SPK: 100
321-60-8	2-Fluorobiphenyl	90.6		20 - 109	91%	SPK: 100
118-79-6	2,4,6-Tribromophenol	155		10 - 116	103%	SPK: 150
1718-51-0	Terphenyl-d14	91.8		10 - 105	92%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	436000	7.437			
1146-65-2	Naphthalene-d8	1710000	10.184			
15067-26-2	Acenaphthene-d10	1060000	14.084			
1517-22-2	Phenanthrene-d10	2270000	16.901			
1719-03-5	Chrysene-d12	2490000	21.336			
1520-96-3	Perylene-d12	2770000	24.46			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	230	A		4.66	ug/Kg

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Report of Analysis

Client:	CDM Smith			Date Collected:	
Project:	South River WM Replacement			Date Received:	
Client Sample ID:	PB168787BL			SDG No.:	Q2543
Lab Sample ID:	PB168787BL			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	100
Sample Wt/Vol:	30.02	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025099.D	1	07/10/25 09:55	07/11/25 11:08	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168787BS	SDG No.:	Q2543
Lab Sample ID:	PB168787BS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025140.D	1	07/10/25 09:55	07/15/25 10:58	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1500		160	330	ug/Kg
108-95-2	Phenol	1500		22.1	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1400		24.3	170	ug/Kg
95-57-8	2-Chlorophenol	1600		24.4	170	ug/Kg
95-48-7	2-Methylphenol	1600		29.9	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1400		37.5	170	ug/Kg
98-86-2	Acetophenone	1400		29.5	170	ug/Kg
65794-96-9	3+4-Methylphenols	1500		41.1	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1400		47.4	80.0	ug/Kg
67-72-1	Hexachloroethane	1600		17.6	170	ug/Kg
98-95-3	Nitrobenzene	1600		18.3	170	ug/Kg
78-59-1	Isophorone	1600		32.8	170	ug/Kg
88-75-5	2-Nitrophenol	1800		58.2	170	ug/Kg
105-67-9	2,4-Dimethylphenol	2200		64.8	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1500		30.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1600		28.3	170	ug/Kg
91-20-3	Naphthalene	1500		22.7	170	ug/Kg
106-47-8	4-Chloroaniline	910		35.4	170	ug/Kg
87-68-3	Hexachlorobutadiene	1700		25.3	170	ug/Kg
105-60-2	Caprolactam	1500		52.1	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1500		28.7	170	ug/Kg
91-57-6	2-Methylnaphthalene	1300		25.6	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	8000	E	120	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1800		19.8	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1700		29.1	170	ug/Kg
92-52-4	1,1-Biphenyl	1500		21.8	170	ug/Kg
91-58-7	2-Chloronaphthalene	1600		22.5	170	ug/Kg
88-74-4	2-Nitroaniline	1600		48.1	170	ug/Kg
131-11-3	Dimethylphthalate	1500		27.1	170	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168787BS	SDG No.:	Q2543
Lab Sample ID:	PB168787BS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025140.D	1	07/10/25 09:55	07/15/25 10:58	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1700		28.9	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1700		33.6	170	ug/Kg
99-09-2	3-Nitroaniline	1100		46.0	170	ug/Kg
83-32-9	Acenaphthene	1500		21.3	170	ug/Kg
51-28-5	2,4-Dinitrophenol	4000	E	230	330	ug/Kg
100-02-7	4-Nitrophenol	3300	E	110	330	ug/Kg
132-64-9	Dibenzofuran	1400		22.7	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1700		50.1	170	ug/Kg
84-66-2	Diethylphthalate	1500		28.3	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1500		26.7	170	ug/Kg
86-73-7	Fluorene	1500		25.3	170	ug/Kg
100-01-6	4-Nitroaniline	1600		64.2	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2000		100	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1600		32.9	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1700		27.8	170	ug/Kg
118-74-1	Hexachlorobenzene	1700		25.3	170	ug/Kg
1912-24-9	Atrazine	2100		34.0	170	ug/Kg
87-86-5	Pentachlorophenol	3400	E	51.3	330	ug/Kg
85-01-8	Phenanthrene	1600		20.9	170	ug/Kg
120-12-7	Anthracene	1600		33.3	170	ug/Kg
86-74-8	Carbazole	1600		31.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	1700		47.9	170	ug/Kg
206-44-0	Fluoranthene	1600		30.0	170	ug/Kg
129-00-0	Pyrene	1600		36.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	1800		71.4	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1400		36.7	330	ug/Kg
56-55-3	Benzo(a)anthracene	1600		23.0	170	ug/Kg
218-01-9	Chrysene	1600		19.9	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1900		59.2	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1800		86.8	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1500		19.0	170	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168787BS	SDG No.:	Q2543
Lab Sample ID:	PB168787BS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025140.D	1	07/10/25 09:55	07/15/25 10:58	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1600		22.4	170	ug/Kg
50-32-8	Benzo(a)pyrene	1800		29.5	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1800		29.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1800		27.4	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1700		25.7	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1600		25.6	170	ug/Kg
123-91-1	1,4-Dioxane	1300		45.2	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1700		27.4	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	141		18 - 112	94%	SPK: 150
13127-88-3	Phenol-d6	118		15 - 107	78%	SPK: 150
4165-60-0	Nitrobenzene-d5	90.9		18 - 107	91%	SPK: 100
321-60-8	2-Fluorobiphenyl	87.5		20 - 109	87%	SPK: 100
118-79-6	2,4,6-Tribromophenol	149		10 - 116	99%	SPK: 150
1718-51-0	Terphenyl-d14	95.8		10 - 105	96%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	579000	7.443			
1146-65-2	Naphthalene-d8	2210000	10.184			
15067-26-2	Acenaphthene-d10	1340000	14.084			
1517-22-2	Phenanthrene-d10	2600000	16.895			
1719-03-5	Chrysene-d12	2650000	21.348			
1520-96-3	Perylene-d12	2990000	24.471			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-49MS	SDG No.:	Q2543
Lab Sample ID:	Q2543-02MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	73.9
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050395.D	1	07/10/25 09:55	07/10/25 18:38	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	2000		210	450	ug/Kg
108-95-2	Phenol	2100		29.8	230	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	2000		32.8	230	ug/Kg
95-57-8	2-Chlorophenol	2100		32.9	230	ug/Kg
95-48-7	2-Methylphenol	2100		40.4	230	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1900		50.6	230	ug/Kg
98-86-2	Acetophenone	2000		39.8	230	ug/Kg
65794-96-9	3+4-Methylphenols	2100		55.5	450	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	2100		64.0	110	ug/Kg
67-72-1	Hexachloroethane	1900		23.8	230	ug/Kg
98-95-3	Nitrobenzene	2000		24.7	230	ug/Kg
78-59-1	Isophorone	2100		44.3	230	ug/Kg
88-75-5	2-Nitrophenol	2300		78.6	230	ug/Kg
105-67-9	2,4-Dimethylphenol	2100		87.5	230	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	2000		41.6	230	ug/Kg
120-83-2	2,4-Dichlorophenol	2200		38.2	230	ug/Kg
91-20-3	Naphthalene	2000		30.6	230	ug/Kg
106-47-8	4-Chloroaniline	600		47.8	230	ug/Kg
87-68-3	Hexachlorobutadiene	2000		34.2	230	ug/Kg
105-60-2	Caprolactam	2200		70.3	450	ug/Kg
59-50-7	4-Chloro-3-methylphenol	2200		38.7	230	ug/Kg
91-57-6	2-Methylnaphthalene	2100		34.6	230	ug/Kg
77-47-4	Hexachlorocyclopentadiene	4200	E	160	450	ug/Kg
88-06-2	2,4,6-Trichlorophenol	2200		26.7	230	ug/Kg
95-95-4	2,4,5-Trichlorophenol	2200		39.3	230	ug/Kg
92-52-4	1,1-Biphenyl	2000		29.4	230	ug/Kg
91-58-7	2-Chloronaphthalene	2000		30.4	230	ug/Kg
88-74-4	2-Nitroaniline	2200		64.9	230	ug/Kg
131-11-3	Dimethylphthalate	2100		36.6	230	ug/Kg

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-49MS	SDG No.:	Q2543
Lab Sample ID:	Q2543-02MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	73.9
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050395.D	1	07/10/25 09:55	07/10/25 18:38	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	2100		39.0	230	ug/Kg
606-20-2	2,6-Dinitrotoluene	2200		45.4	230	ug/Kg
99-09-2	3-Nitroaniline	990		62.1	230	ug/Kg
83-32-9	Acenaphthene	2200		28.8	230	ug/Kg
51-28-5	2,4-Dinitrophenol	3700	E	310	450	ug/Kg
100-02-7	4-Nitrophenol	4600	E	140	450	ug/Kg
132-64-9	Dibenzofuran	2000		30.6	230	ug/Kg
121-14-2	2,4-Dinitrotoluene	2100		67.6	230	ug/Kg
84-66-2	Diethylphthalate	2100		38.2	230	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	2100		36.0	230	ug/Kg
86-73-7	Fluorene	2100		34.2	230	ug/Kg
100-01-6	4-Nitroaniline	1900		86.7	230	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1900		140	450	ug/Kg
86-30-6	n-Nitrosodiphenylamine	2100		44.4	230	ug/Kg
101-55-3	4-Bromophenyl-phenylether	2200		37.5	230	ug/Kg
118-74-1	Hexachlorobenzene	2100		34.2	230	ug/Kg
1912-24-9	Atrazine	2300		45.9	230	ug/Kg
87-86-5	Pentachlorophenol	4600	E	69.3	450	ug/Kg
85-01-8	Phenanthrene	2100		28.2	230	ug/Kg
120-12-7	Anthracene	2100		45.0	230	ug/Kg
86-74-8	Carbazole	2100		42.1	230	ug/Kg
84-74-2	Di-n-butylphthalate	2300		64.7	230	ug/Kg
206-44-0	Fluoranthene	2400		40.5	230	ug/Kg
129-00-0	Pyrene	2700		48.6	230	ug/Kg
85-68-7	Butylbenzylphthalate	2700		96.4	230	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1000		49.5	450	ug/Kg
56-55-3	Benzo(a)anthracene	2300		31.1	230	ug/Kg
218-01-9	Chrysene	2200		26.9	230	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2600		79.9	230	ug/Kg
117-84-0	Di-n-octyl phthalate	2400		120	450	ug/Kg
205-99-2	Benzo(b)fluoranthene	2400		25.7	230	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-49MS	SDG No.:	Q2543
Lab Sample ID:	Q2543-02MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	73.9
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050395.D	1	07/10/25 09:55	07/10/25 18:38	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	2200		30.2	230	ug/Kg
50-32-8	Benzo(a)pyrene	2300		39.8	230	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	2100		39.3	230	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	2000		37.0	230	ug/Kg
191-24-2	Benzo(g,h,i)perylene	2100		34.7	230	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	2100		34.6	230	ug/Kg
123-91-1	1,4-Dioxane	1600		61.0	230	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	2300		37.0	230	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	100		18 - 112	67%	SPK: 150
13127-88-3	Phenol-d6	101		15 - 107	67%	SPK: 150
4165-60-0	Nitrobenzene-d5	59.9		18 - 107	60%	SPK: 100
321-60-8	2-Fluorobiphenyl	57.5		20 - 109	58%	SPK: 100
118-79-6	2,4,6-Tribromophenol	116		10 - 116	77%	SPK: 150
1718-51-0	Terphenyl-d14	71.0		10 - 105	71%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	628000	7.863			
1146-65-2	Naphthalene-d8	2380000	10.663			
15067-26-2	Acenaphthene-d10	1540000	14.492			
1517-22-2	Phenanthrene-d10	3030000	17.227			
1719-03-5	Chrysene-d12	2720000	21.456			
1520-96-3	Perylene-d12	2170000	24.491			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-49MSD	SDG No.:	Q2543
Lab Sample ID:	Q2543-02MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	73.9
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050396.D	1	07/10/25 09:55	07/10/25 19:18	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1900		210	450	ug/Kg
108-95-2	Phenol	2000		29.8	230	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1900		32.8	230	ug/Kg
95-57-8	2-Chlorophenol	2000		33.0	230	ug/Kg
95-48-7	2-Methylphenol	2000		40.4	230	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1800		50.6	230	ug/Kg
98-86-2	Acetophenone	1900		39.8	230	ug/Kg
65794-96-9	3+4-Methylphenols	2000		55.5	450	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1900		64.0	110	ug/Kg
67-72-1	Hexachloroethane	1900		23.8	230	ug/Kg
98-95-3	Nitrobenzene	2000		24.7	230	ug/Kg
78-59-1	Isophorone	2000		44.3	230	ug/Kg
88-75-5	2-Nitrophenol	2300		78.6	230	ug/Kg
105-67-9	2,4-Dimethylphenol	2100		87.5	230	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	2000		41.6	230	ug/Kg
120-83-2	2,4-Dichlorophenol	2100		38.2	230	ug/Kg
91-20-3	Naphthalene	1900		30.7	230	ug/Kg
106-47-8	4-Chloroaniline	640		47.8	230	ug/Kg
87-68-3	Hexachlorobutadiene	2000		34.2	230	ug/Kg
105-60-2	Caprolactam	2100		70.4	450	ug/Kg
59-50-7	4-Chloro-3-methylphenol	2100		38.8	230	ug/Kg
91-57-6	2-Methylnaphthalene	2000		34.6	230	ug/Kg
77-47-4	Hexachlorocyclopentadiene	4200	E	160	450	ug/Kg
88-06-2	2,4,6-Trichlorophenol	2200		26.7	230	ug/Kg
95-95-4	2,4,5-Trichlorophenol	2200		39.3	230	ug/Kg
92-52-4	1,1-Biphenyl	2000		29.4	230	ug/Kg
91-58-7	2-Chloronaphthalene	2000		30.4	230	ug/Kg
88-74-4	2-Nitroaniline	2200		65.0	230	ug/Kg
131-11-3	Dimethylphthalate	2000		36.6	230	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-49MSD	SDG No.:	Q2543
Lab Sample ID:	Q2543-02MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	73.9
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050396.D	1	07/10/25 09:55	07/10/25 19:18	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	2100		39.0	230	ug/Kg
606-20-2	2,6-Dinitrotoluene	2200		45.4	230	ug/Kg
99-09-2	3-Nitroaniline	940		62.1	230	ug/Kg
83-32-9	Acenaphthene	2100		28.8	230	ug/Kg
51-28-5	2,4-Dinitrophenol	3500		310	450	ug/Kg
100-02-7	4-Nitrophenol	4300	E	140	450	ug/Kg
132-64-9	Dibenzofuran	2000		30.7	230	ug/Kg
121-14-2	2,4-Dinitrotoluene	2000		67.7	230	ug/Kg
84-66-2	Diethylphthalate	2000		38.2	230	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	2000		36.1	230	ug/Kg
86-73-7	Fluorene	2000		34.2	230	ug/Kg
100-01-6	4-Nitroaniline	1800		86.7	230	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1900		140	450	ug/Kg
86-30-6	n-Nitrosodiphenylamine	2100		44.4	230	ug/Kg
101-55-3	4-Bromophenyl-phenylether	2200		37.5	230	ug/Kg
118-74-1	Hexachlorobenzene	2100		34.2	230	ug/Kg
1912-24-9	Atrazine	2200		45.9	230	ug/Kg
87-86-5	Pentachlorophenol	4500	E	69.3	450	ug/Kg
85-01-8	Phenanthrene	2000		28.2	230	ug/Kg
120-12-7	Anthracene	2100		45.0	230	ug/Kg
86-74-8	Carbazole	2000		42.1	230	ug/Kg
84-74-2	Di-n-butylphthalate	2200		64.7	230	ug/Kg
206-44-0	Fluoranthene	2200		40.5	230	ug/Kg
129-00-0	Pyrene	2600		48.6	230	ug/Kg
85-68-7	Butylbenzylphthalate	2600		96.4	230	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1100		49.6	450	ug/Kg
56-55-3	Benzo(a)anthracene	2200		31.1	230	ug/Kg
218-01-9	Chrysene	2200		26.9	230	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2400		79.9	230	ug/Kg
117-84-0	Di-n-octyl phthalate	2400		120	450	ug/Kg
205-99-2	Benzo(b)fluoranthene	2300		25.7	230	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-49MSD	SDG No.:	Q2543
Lab Sample ID:	Q2543-02MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	73.9
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050396.D	1	07/10/25 09:55	07/10/25 19:18	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	2200		30.3	230	ug/Kg
50-32-8	Benzo(a)pyrene	2300		39.8	230	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	2200		39.3	230	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	2100		37.0	230	ug/Kg
191-24-2	Benzo(g,h,i)perylene	2200		34.7	230	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	2100		34.6	230	ug/Kg
123-91-1	1,4-Dioxane	1600		61.0	230	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	2200		37.0	230	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	96.6		18 - 112	64%	SPK: 150
13127-88-3	Phenol-d6	96.5		15 - 107	64%	SPK: 150
4165-60-0	Nitrobenzene-d5	59.3		18 - 107	59%	SPK: 100
321-60-8	2-Fluorobiphenyl	57.6		20 - 109	58%	SPK: 100
118-79-6	2,4,6-Tribromophenol	109		10 - 116	73%	SPK: 150
1718-51-0	Terphenyl-d14	70.1		10 - 105	70%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	615000	7.863			
1146-65-2	Naphthalene-d8	2250000	10.663			
15067-26-2	Acenaphthene-d10	1410000	14.492			
1517-22-2	Phenanthrene-d10	2620000	17.227			
1719-03-5	Chrysene-d12	2230000	21.451			
1520-96-3	Perylene-d12	2050000	24.491			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

Response Factor Report BNA_M

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM070925.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Jul 08 18:32:25 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BM050377.D 5 =BM050378.D 10 =BM050379.D 20 =BM050380.D 40 =BM050381.D 50 =BM050382.D 60 =BM050383.D 80 =BM0503
84.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.504	0.466	0.482	0.460	0.501	0.474	0.457	0.478	3.99
3)		Pyridine		1.249	1.197	1.256	1.228	1.336	1.279	1.236	1.254	3.52
4)		n-Nitrosodimet...			0.562	0.595	0.572	0.620	0.595	0.565	0.585	3.88
5)	S	2-Fluorophenol		1.126	1.079	1.149	1.152	1.258	1.202	1.168	1.162	4.89
6)		Aniline		1.784	1.702	1.844	1.878	2.042	1.987	1.921	1.880	6.20
7)	S	Phenol-d6		1.367	1.327	1.441	1.466	1.607	1.547	1.498	1.465	6.67
8)		2-Chlorophenol		1.135	1.105	1.219	1.217	1.341	1.301	1.258	1.225	6.89
9)		Benzaldehyde			0.944	0.985	0.897	0.837	0.694		0.871	13.03
10)	C	Phenol		1.460	1.412	1.516	1.508	1.666	1.598	1.535	1.528	5.51
11)		bis(2-Chloroet...		1.202	1.134	1.223	1.196	1.324	1.268	1.218	1.223	4.88
12)		1,3-Dichlorobe...		1.504	1.425	1.496	1.448	1.580	1.511	1.465	1.490	3.40
13)	C	1,4-Dichlorobe...		1.553	1.459	1.536	1.465	1.610	1.538	1.487	1.521	3.57
14)		1,2-Dichlorobe...		1.481	1.395	1.454	1.410	1.541	1.485	1.428	1.456	3.48
15)		Benzyl Alcohol			0.907	0.995	1.022	1.125	1.090	1.052	1.032	7.45
16)		2,2'-oxybis(1-...		1.835	1.741	1.818	1.752	1.907	1.821	1.741	1.802	3.41
17)		2-Methylphenol		0.922	0.898	0.980	0.990	1.089	1.048	1.008	0.991	6.71
18)		Hexachloroethane		0.518	0.501	0.532	0.520	0.574	0.556	0.543	0.535	4.66
19)	P	n-Nitroso-di-n...	0.790	0.805	0.808	0.888	0.911	1.005	0.968	0.924	0.887	9.01
20)		3+4-Methylphenols			1.170	1.296	1.325	1.458	1.393	1.338	1.330	7.29
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.493	0.479	0.501	0.491	0.534	0.513	0.489	0.500	3.69
23)	S	Nitrobenzene-d5		0.362	0.355	0.390	0.392	0.429	0.415	0.400	0.392	6.77
24)		Nitrobenzene		0.333	0.329	0.353	0.345	0.377	0.362	0.349	0.350	4.73
25)		Isophorone		0.571	0.574	0.634	0.640	0.702	0.679	0.652	0.636	7.73
26)	C	2-Nitrophenol		0.107	0.112	0.132	0.147	0.167	0.167	0.167	0.143	18.26
27)		2,4-Dimethylph...		0.295	0.275	0.301	0.299	0.329	0.317	0.308	0.303	5.63
28)		bis(2-Chloroet...		0.407	0.395	0.422	0.417	0.454	0.436	0.420	0.422	4.61
29)	C	2,4-Dichloroph...		0.277	0.279	0.311	0.312	0.344	0.334	0.325	0.312	8.26
30)		1,2,4-Trichlor...		0.370	0.349	0.369	0.362	0.397	0.385	0.378	0.373	4.21
31)		Naphthalene		1.033	0.975	1.024	0.988	1.071	1.029	0.992	1.016	3.26
32)		Benzoic acid			0.100	0.139	0.164	0.195	0.194	0.199	0.165	23.89
33)		4-Chloroaniline		0.398	0.397	0.427	0.429	0.465	0.453	0.437	0.429	6.00
34)	C	Hexachlorobuta...		0.222	0.209	0.222	0.221	0.244	0.239	0.235	0.228	5.37
35)		Caprolactam			0.064	0.081	0.087	0.096	0.093	0.090	0.085	13.87
36)	C	4-Chloro-3-met...		0.258	0.256	0.288	0.295	0.326	0.313	0.302	0.291	9.10
37)		2-Methylnaphth...		0.611	0.595	0.638	0.635	0.693	0.671	0.647	0.641	5.19
38)		1-Methylnaphth...		0.651	0.629	0.674	0.673	0.736	0.707	0.681	0.679	5.17

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM070925.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.590	0.569	0.611	0.622	0.700	0.683	0.677	0.636	7.93
41)	P	Hexachlorocycl...		0.320	0.361	0.396	0.450	0.454	0.459	0.407	14.08
42)	S	2,4,6-Tribromo...	0.182	0.195	0.230	0.248	0.285	0.280	0.280	0.243	17.40
43)	C	2,4,6-Trichlor...	0.330	0.335	0.377	0.394	0.443	0.434	0.427	0.391	11.81
44)		2,4,5-Trichlor...	0.359	0.376	0.415	0.430	0.484	0.470	0.460	0.428	11.13
45)	S	2-Fluorobiphenyl	1.572	1.538	1.611	1.592	1.753	1.697	1.575	1.620	4.74
46)		1,1'-Biphenyl	1.464	1.419	1.479	1.441	1.586	1.527	1.471	1.484	3.79
47)		2-Chloronaphth...	1.164	1.126	1.187	1.150	1.267	1.217	1.171	1.183	3.93
48)		2-Nitroaniline	0.197	0.211	0.253	0.278	0.312	0.302	0.295	0.264	17.17
49)		Acenaphthylene	1.645	1.658	1.795	1.775	1.956	1.875	1.811	1.788	6.21
50)		Dimethylphthalate	1.323	1.285	1.368	1.351	1.506	1.432	1.373	1.377	5.29
51)		2,6-Dinitrotol...	0.196	0.224	0.263	0.273	0.308	0.297	0.289	0.264	15.41
52)	C	Acenaphthene	1.086	1.050	1.126	1.111	1.231	1.196	1.158	1.137	5.51
53)		3-Nitroaniline	0.204	0.231	0.278	0.294	0.330	0.319	0.311	0.281	16.81
54)	P	2,4-Dinitrophenol		0.074	0.097	0.117	0.140	0.147	0.150	0.121	25.40
55)		Dibenzofuran	1.747	1.674	1.756	1.709	1.880	1.784	1.711	1.751	3.84
56)	P	4-Nitrophenol		0.182	0.225	0.245	0.276	0.265	0.258	0.242	14.15
57)		2,4-Dinitrotol...	0.234	0.277	0.340	0.371	0.422	0.407	0.401	0.350	20.31
58)		Fluorene	1.348	1.328	1.428	1.419	1.582	1.522	1.470	1.443	6.29
59)		2,3,4,6-Tetrac...	0.299	0.306	0.355	0.365	0.405	0.397	0.392	0.360	11.92
60)		Diethylphthalate	1.217	1.210	1.319	1.309	1.454	1.379	1.320	1.315	6.51
61)		4-Chlorophenyl...	0.687	0.673	0.733	0.747	0.839	0.811	0.790	0.754	8.28
62)		4-Nitroaniline	0.192	0.228	0.284	0.311	0.350	0.331	0.320	0.288	20.10
63)		Azobenzene	1.085	1.116	1.234	1.208	1.335	1.272	1.204	1.208	7.15
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.057	0.077	0.094	0.109	0.113	0.117	0.095	24.90
66)	c	n-Nitrosodiphe...	0.572	0.577	0.620	0.623	0.678	0.658	0.654	0.626	6.49
67)		4-Bromophenyl-...	0.196	0.194	0.211	0.218	0.242	0.240	0.241	0.220	9.61
68)		Hexachlorobenzene	0.239	0.233	0.253	0.256	0.283	0.279	0.278	0.260	7.78
69)		Atrazine	0.166	0.175	0.199	0.211	0.232	0.228	0.227	0.206	12.95
70)	C	Pentachlorophenol		0.122	0.145	0.161	0.181	0.180	0.183	0.162	15.23
71)		Phenanthrene	1.119	1.070	1.119	1.101	1.206	1.163	1.143	1.132	3.91
72)		Anthracene	1.028	1.017	1.109	1.117	1.233	1.204	1.179	1.127	7.44
73)		Carbazole	0.939	0.944	1.009	1.010	1.108	1.073	1.052	1.019	6.23
74)		Di-n-butylphth...	0.954	0.961	1.091	1.140	1.252	1.216	1.196	1.116	10.76
75)	C	Fluoranthene	1.088	1.079	1.182	1.233	1.366	1.339	1.327	1.230	9.67
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.370	0.521	0.553	0.601	0.552	0.464	0.510	16.08
78)		Pyrene	1.198	1.177	1.260	1.260	1.388	1.366	1.316	1.281	6.26
79)	S	Terphenyl-d14	1.095	1.110	1.225	1.258	1.298	1.094	0.878	1.137	12.43
80)		Butylbenzylpht...	0.317	0.334	0.401	0.441	0.492	0.491	0.479	0.422	17.39
81)		Benzo(a)anthra...	1.204	1.202	1.282	1.282	1.428	1.379	1.345	1.303	6.57
82)		3,3'-Dichlorob...		0.351	0.406	0.429	0.498	0.487	0.465	0.439	12.66
83)		Chrysene	1.162	1.153	1.200	1.209	1.327	1.303	1.249	1.229	5.45
84)		Bis(2-ethylhex...	0.499	0.546	0.658	0.705	0.780	0.763	0.742	0.670	16.33
85)	c	Di-n-octyl pht...		0.742	0.931	1.058	1.193	1.194	1.183	1.050	17.44

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM070925.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.208	1.238	1.374	1.415	1.603	1.564	1.551	1.422	11.17
88)		Benzo(b)fluora...	1.090	1.075	1.177	1.230	1.368	1.344	1.327	1.230	9.83
89)		Benzo(k)fluora...	1.105	1.138	1.247	1.263	1.444	1.387	1.350	1.276	9.86
90)	C	Benzo(a)pyrene	0.962	0.985	1.099	1.156	1.314	1.281	1.264	1.152	12.41
91)		Dibenzo(a,h)an...	1.022	1.035	1.159	1.193	1.352	1.320	1.301	1.198	11.23
92)		Benzo(g,h,i)pe...	0.992	1.001	1.097	1.121	1.263	1.232	1.216	1.132	9.73

(#) = Out of Range

Response Factor Report MSBNA_P

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP070325.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Jul 03 16:05:44 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BP025071.D 5 =BP025072.D 10 =BP025073.D 20 =BP025074.D 40 =BP025075.D 50 =BP025076.D 60 =BP025077.D 80 =BP0250
78.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.470	0.452	0.457	0.435	0.420	0.428	0.409	0.439	4.99
3)		Pyridine		1.176	1.153	1.243	1.228	1.171	1.239	1.203	1.202	3.00
4)		n-Nitrosodimet...			0.500	0.531	0.506	0.493	0.522	0.500	0.509	2.85
5)	S	2-Fluorophenol		1.070	1.098	1.179	1.134	1.127	1.168	1.127	1.129	3.33
6)		Aniline		1.334	1.324	1.430	1.388	1.371	1.428	1.359	1.376	3.05
7)	S	Phenol-d6		1.428	1.407	1.520	1.458	1.472	1.543	1.482	1.473	3.26
8)		2-Chlorophenol		1.254	1.207	1.320	1.256	1.250	1.294	1.259	1.263	2.83
9)		Benzaldehyde			0.903	0.894	0.724	0.684	0.641		0.769	15.84
10)	C	Phenol		1.473	1.461	1.551	1.472	1.485	1.540	1.493	1.497	2.36
11)		bis(2-Chloroet...		1.187	1.139	1.200	1.122	1.129	1.172	1.115	1.152	2.95
12)		1,3-Dichlorobe...		1.461	1.434	1.485	1.379	1.366	1.413	1.356	1.413	3.48
13)	C	1,4-Dichlorobe...		1.500	1.432	1.505	1.399	1.384	1.424	1.374	1.431	3.70
14)		1,2-Dichlorobe...		1.454	1.388	1.445	1.349	1.329	1.368	1.303	1.377	4.12
15)		Benzyl Alcohol			0.887	0.991	0.957	0.990	1.058	1.015	0.983	5.86
16)		2,2'-oxybis(1-...		1.587	1.520	1.570	1.433	1.462	1.497	1.415	1.498	4.40
17)		2-Methylphenol		0.887	0.908	1.007	0.969	0.974	1.021	0.983	0.964	5.11
18)		Hexachloroethane		0.476	0.441	0.480	0.460	0.463	0.481	0.462	0.466	3.04
19)	P	n-Nitroso-di-n...	0.815	0.862	0.854	0.938	0.865	0.871	0.912	0.872	0.874	4.26
20)		3+4-Methylphenols			1.246	1.383	1.334	1.341	1.428	1.370	1.350	4.55
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.480	0.481	0.502	0.465	0.456	0.480	0.447	0.473	3.88
23)	S	Nitrobenzene-d5		0.267	0.277	0.314	0.307	0.308	0.323	0.308	0.301	6.84
24)		Nitrobenzene		0.280	0.293	0.319	0.310	0.307	0.327	0.308	0.306	5.13
25)		Isophorone		0.525	0.534	0.587	0.558	0.571	0.597	0.561	0.562	4.67
26)	C	2-Nitrophenol		0.086	0.093	0.117	0.133	0.146	0.160	0.159	0.128	23.51
27)		2,4-Dimethylph...		0.199	0.195	0.218	0.208	0.213	0.224	0.210	0.210	4.79
28)		bis(2-Chloroet...		0.378	0.371	0.401	0.374	0.379	0.397	0.371	0.382	3.25
29)	C	2,4-Dichloroph...		0.242	0.263	0.298	0.299	0.304	0.321	0.306	0.291	9.48
30)		1,2,4-Trichlor...		0.319	0.319	0.331	0.319	0.316	0.335	0.314	0.322	2.53
31)		Naphthalene		1.057	1.030	1.081	1.011	1.005	1.049	0.975	1.030	3.47
32)		Benzoic acid			0.115	0.152	0.186	0.199	0.225	0.231	0.185	24.07
33)		4-Chloroaniline		0.358	0.370	0.399	0.390	0.381	0.411	0.381	0.384	4.58
34)	C	Hexachlorobuta...		0.187	0.180	0.188	0.182	0.184	0.191	0.180	0.185	2.31
35)		Caprolactam			0.087	0.101	0.101	0.098	0.108	0.102	0.099	7.23
36)	C	4-Chloro-3-met...		0.259	0.279	0.321	0.309	0.309	0.332	0.316	0.304	8.35
37)		2-Methylnaphth...		0.724	0.711	0.766	0.718	0.715	0.747	0.706	0.727	2.99
38)		1-Methylnaphth...		0.707	0.704	0.753	0.692	0.691	0.736	0.678	0.709	3.74

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP070325.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.554	0.549	0.584	0.580	0.578	0.610	0.568	0.575	3.56
41)	P	Hexachlorocycl...		0.120	0.135	0.149	0.162	0.171	0.164	0.150	13.13
42)	S	2,4,6-Tribromo...	0.194	0.214	0.240	0.246	0.244	0.266	0.249	0.236	10.22
43)	C	2,4,6-Trichlor...	0.271	0.295	0.355	0.370	0.368	0.399	0.379	0.348	13.51
44)		2,4,5-Trichlor...	0.326	0.349	0.406	0.411	0.412	0.441	0.416	0.394	10.41
45)	S	2-Fluorobiphenyl	1.338	1.310	1.361	1.279	1.260	1.311	1.177	1.291	4.70
46)		1,1'-Biphenyl	1.482	1.436	1.510	1.454	1.435	1.490	1.380	1.455	2.99
47)		2-Chloronaphth...	1.097	1.089	1.141	1.091	1.069	1.121	1.048	1.094	2.83
48)		2-Nitroaniline	0.157	0.185	0.235	0.259	0.259	0.289	0.273	0.237	20.49
49)		Acenaphthylene	1.582	1.622	1.771	1.701	1.660	1.761	1.620	1.674	4.36
50)		Dimethylphthalate	1.364	1.376	1.469	1.408	1.365	1.482	1.337	1.400	3.99
51)		2,6-Dinitrotol...	0.199	0.238	0.281	0.295	0.291	0.313	0.294	0.273	14.58
52)	C	Acenaphthene	1.085	1.074	1.142	1.066	1.047	1.111	1.027	1.079	3.59
53)		3-Nitroaniline	0.204	0.248	0.297	0.321	0.310	0.345	0.323	0.293	16.81
54)	P	2,4-Dinitrophenol		0.077	0.098	0.117	0.120	0.137	0.137	0.114	20.49
55)		Dibenzofuran	1.829	1.814	1.866	1.768	1.720	1.813	1.655	1.781	4.07
56)	P	4-Nitrophenol		0.212	0.260	0.285	0.274	0.301	0.289	0.270	11.73
57)		2,4-Dinitrotol...	0.231	0.285	0.364	0.392	0.387	0.430	0.406	0.356	20.13
58)		Fluorene	1.382	1.384	1.467	1.393	1.335	1.403	1.278	1.377	4.27
59)		2,3,4,6-Tetrac...	0.305	0.318	0.370	0.370	0.363	0.397	0.377	0.357	9.32
60)		Diethylphthalate	1.368	1.376	1.468	1.429	1.366	1.477	1.358	1.406	3.64
61)		4-Chlorophenyl...	0.711	0.687	0.710	0.679	0.659	0.700	0.626	0.682	4.47
62)		4-Nitroaniline	0.221	0.267	0.321	0.342	0.319	0.354	0.324	0.307	15.26
63)		Azobenzene	1.251	1.275	1.328	1.265	1.211	1.265	1.171	1.252	3.98
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.054	0.069	0.081	0.089	0.097	0.098	0.082	21.25
66)	c	n-Nitrosodiphe...	0.557	0.548	0.597	0.573	0.574	0.592	0.565	0.572	3.11
67)		4-Bromophenyl-...	0.191	0.190	0.213	0.205	0.208	0.214	0.213	0.205	5.14
68)		Hexachlorobenzene	0.255	0.240	0.255	0.247	0.248	0.257	0.249	0.250	2.28
69)		Atrazine	0.155	0.167	0.183	0.172	0.171	0.172	0.154	0.168	6.10
70)	C	Pentachlorophenol		0.131	0.163	0.172	0.178	0.186	0.184	0.169	12.03
71)		Phenanthrene	1.102	1.084	1.104	1.068	1.030	1.082	1.011	1.069	3.34
72)		Anthracene	0.998	0.996	1.092	1.036	1.021	1.062	0.971	1.025	4.10
73)		Carbazole	0.954	0.994	1.057	1.029	0.990	1.017	0.976	1.002	3.45
74)		Di-n-butylphth...	0.929	0.994	1.147	1.187	1.177	1.228	1.152	1.116	9.89
75)	C	Fluoranthene	1.170	1.222	1.330	1.290	1.249	1.268	1.215	1.249	4.22
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.177	0.354	0.571	0.420	0.288	0.310	0.353	37.82
78)		Pyrene	1.177	1.184	1.288	1.231	1.251	1.302	1.238	1.239	3.81
79)	S	Terphenyl-d14	0.943	0.919	0.978	0.914	0.915	0.936	0.764	0.910	7.50
80)		Butylbenzylpht...	0.228	0.276	0.377	0.440	0.471	0.519	0.499	0.402	28.01
81)		Benzo(a)anthra...	1.146	1.175	1.293	1.217	1.207	1.258	1.189	1.212	4.11
82)		3,3'-Dichlorob...		0.249	0.340	0.390	0.399	0.414	0.397	0.365	16.97
83)		Chrysene	1.169	1.147	1.223	1.159	1.157	1.191	1.118	1.166	2.88
84)		Bis(2-ethylhex...	0.460	0.520	0.646	0.703	0.737	0.764	0.720	0.650	17.89
85)	c	Di-n-octyl pht...		0.609	0.876	1.094	1.206	1.292	1.248	1.054	25.04

Response Factor Report MSBNA_P

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP070325.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.003	1.101	1.318	1.331	1.366	1.433	1.366	1.274	12.44
88)		Benzo(b)fluora...	1.029	1.063	1.215	1.201	1.188	1.266	1.187	1.164	7.36
89)		Benzo(k)fluora...	1.070	1.129	1.249	1.153	1.157	1.218	1.133	1.158	5.11
90)	C	Benzo(a)pyrene	0.817	0.868	1.035	1.033	1.035	1.108	1.040	0.991	10.70
91)		Dibenzo(a,h)an...	0.840	0.921	1.098	1.097	1.126	1.172	1.118	1.053	11.66
92)		Benzo(g,h,i)pe...	0.915	0.967	1.126	1.127	1.142	1.197	1.142	1.088	9.58

(#) = Out of Range

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2543

Instrument ID: BNA_M Calibration Date/Time: 07/10/2025 13:53

Lab File ID: BM050388.D Init. Calib. Date(s): 07/08/2025 07/08/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:39 17:22

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.162	1.137		-2.2	
Benzaldehyde	0.871	0.886		1.7	
Phenol-d6	1.465	1.465		0.0	
Phenol	1.528	1.499		-1.9	20.0
bis(2-Chloroethyl)ether	1.223	1.182		-3.4	
2-Chlorophenol	1.225	1.199		-2.1	
2-Methylphenol	0.991	0.969		-2.2	
2,2-oxybis(1-Chloropropane)	1.802	1.740		-3.4	
Acetophenone	0.500	0.491		-1.8	
3+4-Methylphenols	1.330	1.291		-2.9	
n-Nitroso-di-n-propylamine	0.887	0.900	0.050	1.5	
Nitrobenzene-d5	0.392	0.394		0.5	
Hexachloroethane	0.535	0.517		-3.4	
Nitrobenzene	0.350	0.343		-2.0	
Isophorone	0.636	0.632		-0.6	
2-Nitrophenol	0.143	0.148		3.5	20.0
2,4-Dimethylphenol	0.303	0.297		-2.0	
bis(2-Chloroethoxy)methane	0.422	0.412		-2.4	
2,4-Dichlorophenol	0.312	0.314		0.6	20.0
Naphthalene	1.016	0.983		-3.2	
4-Chloroaniline	0.429	0.429		0.0	
Hexachlorobutadiene	0.228	0.218		-4.4	20.0
Caprolactam	0.085	0.085		0.0	
4-Chloro-3-methylphenol	0.291	0.293		0.7	20.0
2-Methylnaphthalene	0.641	0.636		-0.8	
Hexachlorocyclopentadiene	0.407	0.380	0.050	-6.6	
2,4,6-Trichlorophenol	0.391	0.393		0.5	20.0
2-Fluorobiphenyl	1.620	1.599		-1.3	
2,4,5-Trichlorophenol	0.428	0.426		-0.5	
1,1-Biphenyl	1.484	1.456		-1.9	
2-Chloronaphthalene	1.183	1.166		-1.4	
2-Nitroaniline	0.264	0.275		4.2	
Dimethylphthalate	1.377	1.353		-1.7	
Acenaphthylene	1.788	1.781		-0.4	
2,6-Dinitrotoluene	0.264	0.276		4.5	
3-Nitroaniline	0.281	0.295		5.0	
Acenaphthene	1.137	1.124		-1.1	20.0
2,4-Dinitrophenol	0.121	0.118	0.050	-2.5	
4-Nitrophenol	0.242	0.244	0.050	0.8	

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2543

Instrument ID: BNA_M Calibration Date/Time: 07/10/2025 13:53

Lab File ID: BM050388.D Init. Calib. Date(s): 07/08/2025 07/08/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:39 17:22

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.751	1.711		-2.3	
2,4-Dinitrotoluene	0.350	0.373		6.6	
Diethylphthalate	1.315	1.303		-0.9	
4-Chlorophenyl-phenylether	0.754	0.742		-1.6	
Fluorene	1.443	1.428		-1.0	
4-Nitroaniline	0.288	0.312		8.3	
4,6-Dinitro-2-methylphenol	0.095	0.094		-1.1	
n-Nitrosodiphenylamine	0.626	0.618		-1.3	20.0
2,4,6-Tribromophenol	0.243	0.249		2.5	
4-Bromophenyl-phenylether	0.220	0.217		-1.4	
Hexachlorobenzene	0.260	0.254		-2.3	
Atrazine	0.206	0.205		-0.5	
Pentachlorophenol	0.162	0.157		-3.1	20.0
Phenanthrene	1.132	1.096		-3.2	
Anthracene	1.127	1.112		-1.3	
Carbazole	1.019	1.003		-1.6	
Di-n-butylphthalate	1.116	1.115		-0.1	
Fluoranthene	1.230	1.217		-1.1	20.0
Pyrene	1.281	1.262		-1.5	
Terphenyl-d14	1.137	1.220		7.3	
Butylbenzylphthalate	0.422	0.437		3.6	
3,3-Dichlorobenzidine	0.439	0.422		-3.9	
Benzo(a)anthracene	1.303	1.292		-0.8	
Chrysene	1.229	1.206		-1.9	
Bis(2-ethylhexyl)phthalate	0.670	0.700		4.5	
Di-n-octyl phthalate	1.050	1.069		1.8	20.0
Benzo(b)fluoranthene	1.230	1.224		-0.5	
Benzo(k)fluoranthene	1.276	1.284		0.6	
Benzo(a)pyrene	1.152	1.165		1.1	20.0
Indeno(1,2,3-cd)pyrene	1.422	1.436		1.0	
Dibenzo(a,h)anthracene	1.198	1.209		0.9	
Benzo(g,h,i)perylene	1.132	1.140		0.7	
1,2,4,5-Tetrachlorobenzene	0.636	0.622		-2.2	
1,4-Dioxane	0.478	0.451		-5.6	20.0
2,3,4,6-Tetrachlorophenol	0.360	0.358		-0.6	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2543

Instrument ID: BNA_P Calibration Date/Time: 07/11/2025 10:26

Lab File ID: BP025098.D Init. Calib. Date(s): 07/03/2025 07/03/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:39 14:31

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.129	1.080		-4.3	
Benzaldehyde	0.769	0.703		-8.6	
Phenol-d6	1.473	1.349		-8.4	
Phenol	1.497	1.353		-9.6	20.0
bis(2-Chloroethyl)ether	1.152	1.022		-11.3	
2-Chlorophenol	1.263	1.181		-6.5	
2-Methylphenol	0.964	0.898		-6.8	
2,2-oxybis(1-Chloropropane)	1.498	1.256		-16.2	
Acetophenone	0.473	0.432		-8.7	
3+4-Methylphenols	1.350	1.229		-9.0	
n-Nitroso-di-n-propylamine	0.874	0.775	0.050	-11.3	
Nitrobenzene-d5	0.301	0.294		-2.3	
Hexachloroethane	0.466	0.451		-3.2	
Nitrobenzene	0.306	0.293		-4.2	
Isophorone	0.562	0.511		-9.1	
2-Nitrophenol	0.128	0.157		22.7	20.0
2,4-Dimethylphenol	0.210	0.197		-6.2	
bis(2-Chloroethoxy)methane	0.382	0.348		-8.9	
2,4-Dichlorophenol	0.291	0.284		-2.4	20.0
Naphthalene	1.030	0.954		-7.4	
4-Chloroaniline	0.384	0.358		-6.8	
Hexachlorobutadiene	0.185	0.181		-2.2	20.0
Caprolactam	0.099	0.096		-3.0	
4-Chloro-3-methylphenol	0.304	0.289		-4.9	20.0
2-Methylnaphthalene	0.727	0.670		-7.8	
Hexachlorocyclopentadiene	0.150	0.157	0.050	4.7	
2,4,6-Trichlorophenol	0.348	0.359		3.2	20.0
2-Fluorobiphenyl	1.291	1.209		-6.4	
2,4,5-Trichlorophenol	0.394	0.401		1.8	
1,1-Biphenyl	1.455	1.361		-6.5	
2-Chloronaphthalene	1.094	1.031		-5.8	
2-Nitroaniline	0.237	0.263		11.0	
Dimethylphthalate	1.400	1.311		-6.4	
Acenaphthylene	1.674	1.579		-5.7	
2,6-Dinitrotoluene	0.273	0.282		3.3	
3-Nitroaniline	0.293	0.313		6.8	
Acenaphthene	1.079	0.993		-8.0	20.0
2,4-Dinitrophenol	0.114	0.141	0.050	23.7	
4-Nitrophenol	0.270	0.286	0.050	5.9	

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2543

Instrument ID: BNA_P Calibration Date/Time: 07/11/2025 10:26

Lab File ID: BP025098.D Init. Calib. Date(s): 07/03/2025 07/03/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:39 14:31

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.781	1.624		-8.8	
2,4-Dinitrotoluene	0.356	0.388		9.0	
Diethylphthalate	1.406	1.347		-4.2	
4-Chlorophenyl-phenylether	0.682	0.631		-7.5	
Fluorene	1.377	1.284		-6.8	
4-Nitroaniline	0.307	0.335		9.1	
4,6-Dinitro-2-methylphenol	0.082	0.097		18.3	
n-Nitrosodiphenylamine	0.572	0.541		-5.4	20.0
2,4,6-Tribromophenol	0.236	0.262		11.0	
4-Bromophenyl-phenylether	0.205	0.202		-1.5	
Hexachlorobenzene	0.250	0.241		-3.6	
Atrazine	0.168	0.155		-7.7	
Pentachlorophenol	0.169	0.182		7.7	20.0
Phenanthrene	1.069	0.996		-6.8	
Anthracene	1.025	0.968		-5.6	
Carbazole	1.002	0.969		-3.3	
Di-n-butylphthalate	1.116	1.156		3.6	
Fluoranthene	1.249	1.230		-1.5	20.0
Pyrene	1.239	1.152		-7.0	
Terphenyl-d14	0.910	0.865		-4.9	
Butylbenzylphthalate	0.402	0.500		24.4	
3,3-Dichlorobenzidine	0.365	0.422		15.6	
Benzo(a)anthracene	1.212	1.154		-4.8	
Chrysene	1.166	1.093		-6.3	
Bis(2-ethylhexyl)phthalate	0.650	0.721		10.9	
Di-n-octyl phthalate	1.054	1.248		18.4	20.0
Benzo(b)fluoranthene	1.164	1.102		-5.3	
Benzo(k)fluoranthene	1.158	1.068		-7.8	
Benzo(a)pyrene	0.991	0.972		-1.9	20.0
Indeno(1,2,3-cd)pyrene	1.274	1.302		2.2	
Dibenzo(a,h)anthracene	1.053	1.067		1.3	
Benzo(g,h,i)perylene	1.088	1.097		0.8	
1,2,4,5-Tetrachlorobenzene	0.575	0.556		-3.3	
1,4-Dioxane	0.439	0.390		-11.2	20.0
2,3,4,6-Tetrachlorophenol	0.357	0.371		3.9	

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2543

Instrument ID: BNA_P Calibration Date/Time: 07/15/2025 09:36

Lab File ID: BP025138.D Init. Calib. Date(s): 07/03/2025 07/03/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:39 14:31

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.129	1.147		1.6	
Benzaldehyde	0.769	0.679		-11.7	
Phenol-d6	1.473	1.355		-8.0	
Phenol	1.497	1.357		-9.4	20.0
bis(2-Chloroethyl)ether	1.152	1.035		-10.2	
2-Chlorophenol	1.263	1.226		-2.9	
2-Methylphenol	0.964	0.882		-8.5	
2,2-oxybis(1-Chloropropane)	1.498	1.230		-17.9	
Acetophenone	0.473	0.447		-5.5	
3+4-Methylphenols	1.350	1.168		-13.5	
n-Nitroso-di-n-propylamine	0.874	0.714	0.050	-18.3	
Nitrobenzene-d5	0.301	0.314		4.3	
Hexachloroethane	0.466	0.480		3.0	
Nitrobenzene	0.306	0.312		2.0	
Isophorone	0.562	0.502		-10.7	
2-Nitrophenol	0.128	0.173		35.2	20.0
2,4-Dimethylphenol	0.210	0.204		-2.9	
bis(2-Chloroethoxy)methane	0.382	0.353		-7.6	
2,4-Dichlorophenol	0.291	0.298		2.4	20.0
Naphthalene	1.030	1.000		-2.9	
4-Chloroaniline	0.384	0.355		-7.6	
Hexachlorobutadiene	0.185	0.203		9.7	20.0
Caprolactam	0.099	0.087		-12.1	
4-Chloro-3-methylphenol	0.304	0.283		-6.9	20.0
2-Methylnaphthalene	0.727	0.661		-9.1	
Hexachlorocyclopentadiene	0.150	0.198	0.050	32.0	
2,4,6-Trichlorophenol	0.348	0.391		12.4	20.0
2-Fluorobiphenyl	1.291	1.304		1.0	
2,4,5-Trichlorophenol	0.394	0.423		7.4	
1,1-Biphenyl	1.455	1.428		-1.9	
2-Chloronaphthalene	1.094	1.097		0.3	
2-Nitroaniline	0.237	0.272		14.8	
Dimethylphthalate	1.400	1.334		-4.7	
Acenaphthylene	1.674	1.684		0.6	
2,6-Dinitrotoluene	0.273	0.289		5.9	
3-Nitroaniline	0.293	0.323		10.2	
Acenaphthene	1.079	1.045		-3.2	20.0
2,4-Dinitrophenol	0.114	0.153	0.050	34.2	
4-Nitrophenol	0.270	0.289	0.050	7.0	

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2543

Instrument ID: BNA_P Calibration Date/Time: 07/15/2025 09:36

Lab File ID: BP025138.D Init. Calib. Date(s): 07/03/2025 07/03/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:39 14:31

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.781	1.717		-3.6	
2,4-Dinitrotoluene	0.356	0.401		12.6	
Diethylphthalate	1.406	1.348		-4.1	
4-Chlorophenyl-phenylether	0.682	0.655		-4.0	
Fluorene	1.377	1.332		-3.3	
4-Nitroaniline	0.307	0.342		11.4	
4,6-Dinitro-2-methylphenol	0.082	0.111		35.4	
n-Nitrosodiphenylamine	0.572	0.577		0.9	20.0
2,4,6-Tribromophenol	0.236	0.272		15.3	
4-Bromophenyl-phenylether	0.205	0.223		8.8	
Hexachlorobenzene	0.250	0.259		3.6	
Atrazine	0.168	0.147		-12.5	
Pentachlorophenol	0.169	0.198		17.2	20.0
Phenanthrene	1.069	1.047		-2.1	
Anthracene	1.025	1.043		1.8	
Carbazole	1.002	1.027		2.5	
Di-n-butylphthalate	1.116	1.242		11.3	
Fluoranthene	1.249	1.286		3.0	20.0
Pyrene	1.239	1.176		-5.1	
Terphenyl-d14	0.910	0.896		-1.5	
Butylbenzylphthalate	0.402	0.528		31.3	
3,3-Dichlorobenzidine	0.365	0.460		26.0	
Benzo(a)anthracene	1.212	1.213		0.1	
Chrysene	1.166	1.161		-0.4	
Bis(2-ethylhexyl)phthalate	0.650	0.765		17.7	
Di-n-octyl phthalate	1.054	1.391		32.0	20.0
Benzo(b)fluoranthene	1.164	1.125		-3.4	
Benzo(k)fluoranthene	1.158	1.086		-6.2	
Benzo(a)pyrene	0.991	1.013		2.2	20.0
Indeno(1,2,3-cd)pyrene	1.274	1.401		10.0	
Dibenzo(a,h)anthracene	1.053	1.150		9.2	
Benzo(g,h,i)perylene	1.088	1.183		8.7	
1,2,4,5-Tetrachlorobenzene	0.575	0.622		8.2	
1,4-Dioxane	0.439	0.426		-3.0	20.0
2,3,4,6-Tetrachlorophenol	0.357	0.378		5.9	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

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LAB CHRONICLE

OrderID:	Q2543	**OrderDate:**	7/9/2025 12:26:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	O42,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2543-01	**TP-41**	**SOIL**			**07/08/25**			**07/09/25**
			Gasoline Range Organics	8015D			07/10/25	
			PCB	8082A		07/10/25	07/10/25	
			Pesticide-TCL	8081B		07/10/25	07/10/25	
Q2543-02	**TP-49**	**SOIL**			**07/09/25**			**07/09/25**
			Gasoline Range Organics	8015D			07/10/25	
			PCB	8082A		07/10/25	07/10/25	
			Pesticide-TCL	8081B		07/10/25	07/10/25	
Q2543-03	**TP-23**	**SOIL**			**07/09/25**			**07/09/25**
			Gasoline Range Organics	8015D			07/10/25	
			PCB	8082A		07/10/25	07/10/25	
			Pesticide-TCL	8081B		07/10/25	07/10/25	
Q2543-04	**TP-23-99**	**SOIL**			**07/09/25**			**07/09/25**
			Gasoline Range Organics	8015D			07/10/25	
			PCB	8082A		07/10/25	07/10/25	
			Pesticide-TCL	8081B		07/10/25	07/10/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2543 **Order ID:** Q2543

Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

Client ID :

Total Concentration: **0.000**

SAMPLE DATA

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-41	SDG No.:	Q2543
Lab Sample ID:	Q2543-01	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	82 Decanted:
Sample Wt/Vol:	30.04 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089438.D	1	07/10/25 08:35	07/10/25 15:09	PB168784

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.16	U	0.16	2.10	ug/kg
319-85-7	beta-BHC	0.22	U	0.22	2.10	ug/kg
319-86-8	delta-BHC	0.48	U	0.48	2.10	ug/kg
58-89-9	gamma-BHC (Lindane)	0.17	U	0.17	2.10	ug/kg
76-44-8	Heptachlor	0.15	U	0.15	2.10	ug/kg
309-00-2	Aldrin	0.15	U	0.15	2.10	ug/kg
1024-57-3	Heptachlor epoxide	0.23	U	0.23	2.10	ug/kg
959-98-8	Endosulfan I	0.17	U	0.17	2.10	ug/kg
60-57-1	Dieldrin	0.17	U	0.17	2.10	ug/kg
72-55-9	4,4-DDE	0.17	U	0.17	2.10	ug/kg
72-20-8	Endrin	0.17	U	0.17	2.10	ug/kg
33213-65-9	Endosulfan II	0.35	U	0.35	2.10	ug/kg
72-54-8	4,4-DDD	0.18	U	0.18	2.10	ug/kg
1031-07-8	Endosulfan Sulfate	0.16	U	0.16	2.10	ug/kg
50-29-3	4,4-DDT	0.17	U	0.17	2.10	ug/kg
72-43-5	Methoxychlor	0.45	U	0.45	2.10	ug/kg
53494-70-5	Endrin ketone	0.23	U	0.23	2.10	ug/kg
7421-93-4	Endrin aldehyde	0.45	U	0.45	2.10	ug/kg
5103-71-9	alpha-Chlordane	0.15	U	0.15	2.10	ug/kg
5103-74-2	gamma-Chlordane	0.18	U	0.18	2.10	ug/kg
8001-35-2	Toxaphene	6.60	U	6.60	40.2	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	9.94		20 - 144	50%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.2		19 - 148	91%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-41	SDG No.:	Q2543
Lab Sample ID:	Q2543-01	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	82 Decanted:
Sample Wt/Vol:	30.04 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089438.D	1	07/10/25 08:35	07/10/25 15:09	PB168784

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-49	SDG No.:	Q2543
Lab Sample ID:	Q2543-02	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	73.9 Decanted:
Sample Wt/Vol:	30.07 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089439.D	1	07/10/25 08:35	07/10/25 15:23	PB168784

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.18	U	0.18	2.30	ug/kg
319-85-7	beta-BHC	0.24	U	0.24	2.30	ug/kg
319-86-8	delta-BHC	0.53	U	0.53	2.30	ug/kg
58-89-9	gamma-BHC (Lindane)	0.19	U	0.19	2.30	ug/kg
76-44-8	Heptachlor	0.16	U	0.16	2.30	ug/kg
309-00-2	Aldrin	0.16	U	0.16	2.30	ug/kg
1024-57-3	Heptachlor epoxide	0.26	U	0.26	2.30	ug/kg
959-98-8	Endosulfan I	0.19	U	0.19	2.30	ug/kg
60-57-1	Dieldrin	0.19	U	0.19	2.30	ug/kg
72-55-9	4,4-DDE	0.19	U	0.19	2.30	ug/kg
72-20-8	Endrin	0.19	U	0.19	2.30	ug/kg
33213-65-9	Endosulfan II	0.39	U	0.39	2.30	ug/kg
72-54-8	4,4-DDD	0.20	U	0.20	2.30	ug/kg
1031-07-8	Endosulfan Sulfate	0.18	U	0.18	2.30	ug/kg
50-29-3	4,4-DDT	0.19	U	0.19	2.30	ug/kg
72-43-5	Methoxychlor	0.50	U	0.50	2.30	ug/kg
53494-70-5	Endrin ketone	0.26	U	0.26	2.30	ug/kg
7421-93-4	Endrin aldehyde	0.50	U	0.50	2.30	ug/kg
5103-71-9	alpha-Chlordane	0.16	U	0.16	2.30	ug/kg
5103-74-2	gamma-Chlordane	0.20	U	0.20	2.30	ug/kg
8001-35-2	Toxaphene	7.30	U	7.30	44.6	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	13.5		20 - 144	68%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.4		19 - 148	92%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-49	SDG No.:	Q2543
Lab Sample ID:	Q2543-02	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	73.9 Decanted:
Sample Wt/Vol:	30.07 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089439.D	1	07/10/25 08:35	07/10/25 15:23	PB168784

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23	SDG No.:	Q2543
Lab Sample ID:	Q2543-03	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	85 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089440.D	1	07/10/25 08:35	07/10/25 15:37	PB168784

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.15	U	0.15	2.00	ug/kg
319-85-7	beta-BHC	0.21	U	0.21	2.00	ug/kg
319-86-8	delta-BHC	0.46	U	0.46	2.00	ug/kg
58-89-9	gamma-BHC (Lindane)	0.16	U	0.16	2.00	ug/kg
76-44-8	Heptachlor	0.14	U	0.14	2.00	ug/kg
309-00-2	Aldrin	0.14	U	0.14	2.00	ug/kg
1024-57-3	Heptachlor epoxide	0.22	U	0.22	2.00	ug/kg
959-98-8	Endosulfan I	0.16	U	0.16	2.00	ug/kg
60-57-1	Dieldrin	0.16	U	0.16	2.00	ug/kg
72-55-9	4,4-DDE	0.16	U	0.16	2.00	ug/kg
72-20-8	Endrin	0.16	U	0.16	2.00	ug/kg
33213-65-9	Endosulfan II	0.34	U	0.34	2.00	ug/kg
72-54-8	4,4-DDD	0.18	U	0.18	2.00	ug/kg
1031-07-8	Endosulfan Sulfate	0.15	U	0.15	2.00	ug/kg
50-29-3	4,4-DDT	0.16	U	0.16	2.00	ug/kg
72-43-5	Methoxychlor	0.43	U	0.43	2.00	ug/kg
53494-70-5	Endrin ketone	0.22	U	0.22	2.00	ug/kg
7421-93-4	Endrin aldehyde	0.43	U	0.43	2.00	ug/kg
5103-71-9	alpha-Chlordane	0.14	U	0.14	2.00	ug/kg
5103-74-2	gamma-Chlordane	0.18	U	0.18	2.00	ug/kg
8001-35-2	Toxaphene	6.40	U	6.40	38.8	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	13.8		20 - 144	69%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.7		19 - 148	103%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23	SDG No.:	Q2543
Lab Sample ID:	Q2543-03	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	85 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089440.D	1	07/10/25 08:35	07/10/25 15:37	PB168784

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23-99	SDG No.:	Q2543
Lab Sample ID:	Q2543-04	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	85.4 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089443.D	1	07/10/25 08:35	07/10/25 16:17	PB168784

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.15	U	0.15	2.00	ug/kg
319-85-7	beta-BHC	0.21	U	0.21	2.00	ug/kg
319-86-8	delta-BHC	0.46	U	0.46	2.00	ug/kg
58-89-9	gamma-BHC (Lindane)	0.16	U	0.16	2.00	ug/kg
76-44-8	Heptachlor	0.14	U	0.14	2.00	ug/kg
309-00-2	Aldrin	0.14	U	0.14	2.00	ug/kg
1024-57-3	Heptachlor epoxide	0.22	U	0.22	2.00	ug/kg
959-98-8	Endosulfan I	0.16	U	0.16	2.00	ug/kg
60-57-1	Dieldrin	0.16	U	0.16	2.00	ug/kg
72-55-9	4,4-DDE	0.16	U	0.16	2.00	ug/kg
72-20-8	Endrin	0.16	U	0.16	2.00	ug/kg
33213-65-9	Endosulfan II	0.34	U	0.34	2.00	ug/kg
72-54-8	4,4-DDD	0.18	U	0.18	2.00	ug/kg
1031-07-8	Endosulfan Sulfate	0.15	U	0.15	2.00	ug/kg
50-29-3	4,4-DDT	0.16	U	0.16	2.00	ug/kg
72-43-5	Methoxychlor	0.43	U	0.43	2.00	ug/kg
53494-70-5	Endrin ketone	0.22	U	0.22	2.00	ug/kg
7421-93-4	Endrin aldehyde	0.43	U	0.43	2.00	ug/kg
5103-71-9	alpha-Chlordane	0.14	U	0.14	2.00	ug/kg
5103-74-2	gamma-Chlordane	0.18	U	0.18	2.00	ug/kg
8001-35-2	Toxaphene	6.30	U	6.30	38.6	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	12.9		20 - 144	65%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.8		19 - 148	99%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23-99	SDG No.:	Q2543
Lab Sample ID:	Q2543-04	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	85.4 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089443.D	1	07/10/25 08:35	07/10/25 16:17	PB168784

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
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J = Estimated Value
B = Analyte Found in Associated Method Blank
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() = Laboratory InHouse Limit

QC SUMMARY

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Surrogate Summary

SDG No.: Q2543

Client: CDM Smith

Analytical Method: 8081B

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Recovery(%)	Qual	Limits(%) Low	Limits(%) High
I.BLK-PD088990.D	PIBLK-PD088990.D	Decachlorobiphen	1	20	18.2	91		57	171
		Tetrachloro-m-xyl	1	20	16.1	80		61	148
		Decachlorobiphen	2	20	18.6	93		57	171
		Tetrachloro-m-xyl	2	20	17.7	88		61	148
I.BLK-PD089431.D	PIBLK-PD089431.D	Decachlorobiphen	1	20	20.9	104		57	171
		Tetrachloro-m-xyl	1	20	19.2	96		61	148
		Decachlorobiphen	2	20	23.9	119		57	171
		Tetrachloro-m-xyl	2	20	22.0	110		61	148
PB168784BL	PB168784BL	Decachlorobiphen	1	20	20.1	100		20	144
		Tetrachloro-m-xyl	1	20	17.7	88		19	148
		Decachlorobiphen	2	20	21.4	107		20	144
		Tetrachloro-m-xyl	2	20	21.0	105		19	148
PB168784BS	PB168784BS	Decachlorobiphen	1	20	17.6	88		20	144
		Tetrachloro-m-xyl	1	20	14.8	74		19	148
		Decachlorobiphen	2	20	19.1	96		20	144
		Tetrachloro-m-xyl	2	20	17.9	89		19	148
Q2543-01	TP-41	Decachlorobiphen	1	20	9.94	50		20	144
		Tetrachloro-m-xyl	1	20	15.8	79		19	148
		Decachlorobiphen	2	20	6.97	35		20	144
		Tetrachloro-m-xyl	2	20	18.2	91		19	148
Q2543-02	TP-49	Decachlorobiphen	1	20	13.5	68		20	144
		Tetrachloro-m-xyl	1	20	16.7	83		19	148
		Decachlorobiphen	2	20	10.1	51		20	144
		Tetrachloro-m-xyl	2	20	18.4	92		19	148
Q2543-03	TP-23	Decachlorobiphen	1	20	13.8	69		20	144
		Tetrachloro-m-xyl	1	20	18.6	93		19	148
		Decachlorobiphen	2	20	11.2	56		20	144
		Tetrachloro-m-xyl	2	20	20.7	103		19	148
Q2543-03MS	TP-23MS	Decachlorobiphen	1	20	13.4	67		20	144
		Tetrachloro-m-xyl	1	20	16.8	84		19	148
		Decachlorobiphen	2	20	12.3	61		20	144
		Tetrachloro-m-xyl	2	20	19.6	98		19	148
Q2543-03MSD	TP-23MSD	Decachlorobiphen	1	20	13.4	67		20	144
		Tetrachloro-m-xyl	1	20	17.0	85		19	148
		Decachlorobiphen	2	20	11.7	59		20	144
		Tetrachloro-m-xyl	2	20	19.3	97		19	148
Q2543-04	TP-23-99	Decachlorobiphen	1	20	12.9	65		20	144
		Tetrachloro-m-xyl	1	20	18.1	91		19	148
		Decachlorobiphen	2	20	12.2	61		20	144
		Tetrachloro-m-xyl	2	20	19.8	99		19	148
I.BLK-PD089447.D	PIBLK-PD089447.D	Decachlorobiphen	1	20	16.3	81		57	171

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Surrogate Summary

SDG No.: Q2543

Client: CDM Smith

Analytical Method: 8081B

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Recovery(%)	Qual	Limits(%) Low	Limits(%) High
I.BLK-PD089447.D	PIBLK-PD089447.D	Tetrachloro-m-xyl	1	20	18.4	92		61	148
		Decachlorobiphen	2	20	13.4	67		57	171
		Tetrachloro-m-xyl	2	20	21.6	108		61	148

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2543 **Analytical Method:** 8081B

Client: CDM Smith **DataFile :** PD089441.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: **Q2543-03MS (Column 1)**	**Client Sample ID:**		**TP-23MS**								
alpha-BHC	19.57	0	17.2	ug/kg	88				60	144	
beta-BHC	19.57	0	16.0	ug/kg	82				54	143	
delta-BHC	19.57	0	16.9	ug/kg	86				29	151	
gamma-BHC (Lindane)	19.57	0	16.9	ug/kg	86				61	140	
Heptachlor	19.57	0	15.7	ug/kg	80				63	135	
Aldrin	19.57	0	16.3	ug/kg	83				49	139	
Heptachlor epoxide	19.57	0	15.1	ug/kg	77				41	156	
Endosulfan I	19.57	0	14.9	ug/kg	76				56	142	
Dieldrin	19.57	0	14.7	ug/kg	75				47	161	
4,4'-DDE	19.57	0	14.7	ug/kg	75				55	136	
Endrin	19.57	0	13.5	ug/kg	69				57	139	
Endosulfan II	19.57	0	14.1	ug/kg	72				40	163	
4,4'-DDD	19.57	0	14.3	ug/kg	73				47	163	
Endosulfan sulfate	19.57	0	13.6	ug/kg	69				62	139	
4,4'-DDT	19.57	0	13.3	ug/kg	68				51	146	
Methoxychlor	19.57	0	12.5	ug/kg	64				54	136	
Endrin ketone	19.57	0	14.0	ug/kg	72				60	129	
Endrin aldehyde	19.57	0	14.4	ug/kg	74				59	132	
alpha-Chlordane	19.57	0	14.8	ug/kg	76				39	166	
gamma-Chlordane	19.57	0	14.8	ug/kg	76				44	175	
Lab Sample ID: **Q2543-03MS (Column 2)**	**Client Sample ID:**		**TP-23MS**								
alpha-BHC	19.57	0	18.5	ug/kg	95				60	144	
beta-BHC	19.57	0	17.9	ug/kg	91				54	143	
delta-BHC	19.57	0	18.1	ug/kg	92				29	151	
gamma-BHC (Lindane)	19.57	0	18.4	ug/kg	94				61	140	
Heptachlor	19.57	0	17.6	ug/kg	90				63	135	
Aldrin	19.57	0	18.1	ug/kg	92				49	139	
Heptachlor epoxide	19.57	0	17.7	ug/kg	90				41	156	
Endosulfan I	19.57	0	17.1	ug/kg	87				56	142	
Dieldrin	19.57	0	16.7	ug/kg	85				47	161	
4,4'-DDE	19.57	0	16.7	ug/kg	85				55	136	
Endrin	19.57	0	15.7	ug/kg	80				57	139	
Endosulfan II	19.57	0	15.1	ug/kg	77				40	163	
4,4'-DDD	19.57	0	15.0	ug/kg	77				47	163	
Endosulfan sulfate	19.57	0	14.4	ug/kg	74				62	139	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2543 **Analytical Method:** 8081B

Client: CDM Smith **DataFile :** PD089441.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
4,4'-DDT	19.57	0	14.1	ug/kg	72				51	146	
Methoxychlor	19.57	0	13.0	ug/kg	66				54	136	
Endrin ketone	19.57	0	13.0	ug/kg	66				60	129	
Endrin aldehyde	19.57	0	14.6	ug/kg	75				59	132	
alpha-Chlordane	19.57	0	16.9	ug/kg	86				39	166	
gamma-Chlordane	19.57	0	17.0	ug/kg	87				44	175	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2543 **Analytical Method:** 8081B

Client: CDM Smith **DataFile :** PD089442.D

	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID:	**Q2543-03MSD (Column 1)**	**Client Sample ID:**		**TP-23MSD**								
	alpha-BHC	19.56	0	17.4	ug/kg	89		1		60	144	20
	beta-BHC	19.56	0	16.7	ug/kg	85		4		54	143	20
	delta-BHC	19.56	0	17.8	ug/kg	91		6		29	151	20
	gamma-BHC (Lindane)	19.56	0	17.4	ug/kg	89		3		61	140	20
	Heptachlor	19.56	0	16.0	ug/kg	82		2		63	135	20
	Aldrin	19.56	0	16.4	ug/kg	84		1		49	139	20
	Heptachlor epoxide	19.56	0	16.2	ug/kg	83		8		41	156	20
	Endosulfan I	19.56	0	15.4	ug/kg	79		4		56	142	20
	Dieldrin	19.56	0	15.2	ug/kg	78		4		47	161	20
	4,4'-DDE	19.56	0	15.1	ug/kg	77		3		55	136	20
	Endrin	19.56	0	14.7	ug/kg	75		8		57	139	20
	Endosulfan II	19.56	0	13.8	ug/kg	71		1		40	163	20
	4,4'-DDD	19.56	0	15.0	ug/kg	77		5		47	163	20
	Endosulfan sulfate	19.56	0	14.2	ug/kg	73		6		62	139	20
	4,4'-DDT	19.56	0	13.5	ug/kg	69		1		51	146	20
	Methoxychlor	19.56	0	12.8	ug/kg	65		2		54	136	20
	Endrin ketone	19.56	0	13.8	ug/kg	71		1		60	129	20
	Endrin aldehyde	19.56	0	14.2	ug/kg	73		1		59	132	20
	alpha-Chlordane	19.56	0	15.5	ug/kg	79		4		39	166	20
	gamma-Chlordane	19.56	0	15.6	ug/kg	80		5		44	175	20
Lab Sample ID:	**Q2543-03MSD (Column 2)**	**Client Sample ID:**		**TP-23MSD**								
	alpha-BHC	19.56	0	18.5	ug/kg	95		0		60	144	20
	beta-BHC	19.56	0	17.9	ug/kg	92		1		54	143	20
	delta-BHC	19.56	0	18.4	ug/kg	94		2		29	151	20
	gamma-BHC (Lindane)	19.56	0	18.4	ug/kg	94		0		61	140	20
	Heptachlor	19.56	0	17.6	ug/kg	90		0		63	135	20
	Aldrin	19.56	0	18.4	ug/kg	94		2		49	139	20
	Heptachlor epoxide	19.56	0	18.4	ug/kg	94		4		41	156	20
	Endosulfan I	19.56	0	17.6	ug/kg	90		3		56	142	20
	Dieldrin	19.56	0	16.9	ug/kg	86		1		47	161	20
	4,4'-DDE	19.56	0	17.0	ug/kg	87		2		55	136	20
	Endrin	19.56	0	16.3	ug/kg	83		4		57	139	20
	Endosulfan II	19.56	0	15.6	ug/kg	80		4		40	163	20
	4,4'-DDD	19.56	0	15.7	ug/kg	80		4		47	163	20
	Endosulfan sulfate	19.56	0	15.1	ug/kg	77		4		62	139	20

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2543 **Analytical Method:** 8081B

Client: CDM Smith **DataFile :** PD089442.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
4,4'-DDT	19.56	0	14.5	ug/kg	74		3		51	146	20
Methoxychlor	19.56	0	13.2	ug/kg	67		2		54	136	20
Endrin ketone	19.56	0	14.1	ug/kg	72		9		60	129	20
Endrin aldehyde	19.56	0	15.1	ug/kg	77		3		59	132	20
alpha-Chlordane	19.56	0	17.5	ug/kg	89		3		39	166	20
gamma-Chlordane	19.56	0	17.7	ug/kg	90		3		44	175	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2543 **Analytical Method:** 8081B

Client: CDM Smith **Datafile :** PD089434.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168784BS (Column 1)	alpha-BHC	16.66	15.5	ug/kg	93				84	123	
	beta-BHC	16.66	15.0	ug/kg	90				82	123	
	delta-BHC	16.66	16.7	ug/kg	100				83	126	
	gamma-BHC (Lindane)	16.66	15.5	ug/kg	93				83	125	
	Heptachlor	16.66	15.7	ug/kg	94				83	122	
	Aldrin	16.66	15.7	ug/kg	94				82	124	
	Heptachlor epoxide	16.66	15.5	ug/kg	93				83	120	
	Endosulfan I	16.66	15.7	ug/kg	94				81	124	
	Dieldrin	16.66	15.9	ug/kg	95				85	121	
	4,4'-DDE	16.66	15.6	ug/kg	94				81	123	
	Endrin	16.66	14.9	ug/kg	89				76	130	
	Endosulfan II	16.66	16.0	ug/kg	96				80	125	
	4,4'-DDD	16.66	16.1	ug/kg	97				80	131	
	Endosulfan sulfate	16.66	15.7	ug/kg	94				81	122	
	4,4'-DDT	16.66	15.4	ug/kg	92				70	129	
	Methoxychlor	16.66	14.8	ug/kg	89				60	119	
	Endrin ketone	16.66	16.1	ug/kg	97				77	132	
	Endrin aldehyde	16.66	15.7	ug/kg	94				79	124	
	alpha-Chlordane	16.66	15.7	ug/kg	94				84	120	
	gamma-Chlordane	16.66	15.8	ug/kg	95				83	122	
PB168784BS (Column 2)	alpha-BHC	16.66	16.7	ug/kg	100				84	123	
	beta-BHC	16.66	16.5	ug/kg	99				82	123	
	delta-BHC	16.66	16.8	ug/kg	101				83	126	
	gamma-BHC (Lindane)	16.66	16.8	ug/kg	101				83	125	
	Heptachlor	16.66	16.4	ug/kg	98				83	122	
	Aldrin	16.66	16.8	ug/kg	101				82	124	
	Heptachlor epoxide	16.66	17.0	ug/kg	102				83	120	
	Endosulfan I	16.66	17.0	ug/kg	102				81	124	
	Dieldrin	16.66	16.8	ug/kg	101				85	121	
	4,4'-DDE	16.66	16.8	ug/kg	101				81	123	
	Endrin	16.66	15.8	ug/kg	95				76	130	
	Endosulfan II	16.66	16.7	ug/kg	100				80	125	
	4,4'-DDD	16.66	17.0	ug/kg	102				80	131	
	Endosulfan sulfate	16.66	16.7	ug/kg	100				81	122	
	4,4'-DDT	16.66	16.2	ug/kg	97				70	129	
	Methoxychlor	16.66	15.6	ug/kg	94				60	119	
	Endrin ketone	16.66	17.2	ug/kg	103				77	132	
	Endrin aldehyde	16.66	16.5	ug/kg	99				79	124	
	alpha-Chlordane	16.66	16.7	ug/kg	100				84	120	
	gamma-Chlordane	16.66	16.7	ug/kg	100				83	122	

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4C

PESTICIDE METHOD BLANK SUMMARY

Client ID: PB168784BL

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2543

Lab Sample ID: PB168784BL | Lab File ID: PD089433.D

Matrix: (soil/water) Solid | Extraction: (Type) SOXH

Sulfur Cleanup: (Y/N) N | Date Extracted: 07/10/2025

Date Analyzed (1): 07/10/2025 | Date Analyzed (2): 07/10/2025

Time Analyzed (1): 13:31 | Time Analyzed (2): 13:31

Instrument ID (1): ECD_D | Instrument ID (2): ECD_D

GC Column (1): ZB-MR1 ID: 0.32 (mm) | GC Column (2): ZB-MR2 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
PB168784BS	PB168784BS	PD089434.D	07/10/2025	07/10/2025
TP-41	Q2543-01	PD089438.D	07/10/2025	07/10/2025
TP-49	Q2543-02	PD089439.D	07/10/2025	07/10/2025
TP-23	Q2543-03	PD089440.D	07/10/2025	07/10/2025
TP-23MS	Q2543-03MS	PD089441.D	07/10/2025	07/10/2025
TP-23MSD	Q2543-03MSD	PD089442.D	07/10/2025	07/10/2025
TP-23-99	Q2543-04	PD089443.D	07/10/2025	07/10/2025

COMMENTS:

QC SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168784BL	SDG No.:	Q2543
Lab Sample ID:	PB168784BL	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	100 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089433.D	1	07/10/25 08:35	07/10/25 13:31	PB168784

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.13	U	0.13	1.70	ug/kg
319-85-7	beta-BHC	0.18	U	0.18	1.70	ug/kg
319-86-8	delta-BHC	0.39	U	0.39	1.70	ug/kg
58-89-9	gamma-BHC (Lindane)	0.14	U	0.14	1.70	ug/kg
76-44-8	Heptachlor	0.12	U	0.12	1.70	ug/kg
309-00-2	Aldrin	0.12	U	0.12	1.70	ug/kg
1024-57-3	Heptachlor epoxide	0.19	U	0.19	1.70	ug/kg
959-98-8	Endosulfan I	0.14	U	0.14	1.70	ug/kg
60-57-1	Dieldrin	0.14	U	0.14	1.70	ug/kg
72-55-9	4,4-DDE	0.14	U	0.14	1.70	ug/kg
72-20-8	Endrin	0.14	U	0.14	1.70	ug/kg
33213-65-9	Endosulfan II	0.29	U	0.29	1.70	ug/kg
72-54-8	4,4-DDD	0.15	U	0.15	1.70	ug/kg
1031-07-8	Endosulfan Sulfate	0.13	U	0.13	1.70	ug/kg
50-29-3	4,4-DDT	0.14	U	0.14	1.70	ug/kg
72-43-5	Methoxychlor	0.37	U	0.37	1.70	ug/kg
53494-70-5	Endrin ketone	0.19	U	0.19	1.70	ug/kg
7421-93-4	Endrin aldehyde	0.37	U	0.37	1.70	ug/kg
5103-71-9	alpha-Chlordane	0.12	U	0.12	1.70	ug/kg
5103-74-2	gamma-Chlordane	0.15	U	0.15	1.70	ug/kg
8001-35-2	Toxaphene	5.40	U	5.40	33.0	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	21.4		20 - 144	107%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.0		19 - 148	105%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168784BL	SDG No.:	Q2543
Lab Sample ID:	PB168784BL	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	100 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089433.D	1	07/10/25 08:35	07/10/25 13:31	PB168784

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/17/25
Project:	South River WM Replacement	Date Received:	06/17/25
Client Sample ID:	PIBLK-PD088990.D	SDG No.:	Q2543
Lab Sample ID:	I.BLK-PD088990.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088990.D	1		06/17/25	PD061825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0039	U	0.0039	0.050	ug/L
319-85-7	beta-BHC	0.0049	U	0.0049	0.050	ug/L
319-86-8	delta-BHC	0.011	U	0.011	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
309-00-2	Aldrin	0.0036	U	0.0036	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
959-98-8	Endosulfan I	0.0031	U	0.0031	0.050	ug/L
60-57-1	Dieldrin	0.0036	U	0.0036	0.050	ug/L
72-55-9	4,4-DDE	0.0037	U	0.0037	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
33213-65-9	Endosulfan II	0.0079	U	0.0079	0.050	ug/L
72-54-8	4,4-DDD	0.0071	U	0.0071	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0037	U	0.0037	0.050	ug/L
50-29-3	4,4-DDT	0.0035	U	0.0035	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0093	U	0.0093	0.050	ug/L
7421-93-4	Endrin aldehyde	0.011	U	0.011	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0035	U	0.0035	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0039	U	0.0039	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	18.6		57 - 171	93%	SPK: 20
877-09-8	Tetrachloro-m-xylene	17.7		61 - 148	88%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/17/25
Project:	South River WM Replacement	Date Received:	06/17/25
Client Sample ID:	PIBLK-PD088990.D	SDG No.:	Q2543
Lab Sample ID:	I.BLK-PD088990.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088990.D	1		06/17/25	PD061825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/10/25
Project:	South River WM Replacement	Date Received:	07/10/25
Client Sample ID:	PIBLK-PD089431.D	SDG No.:	Q2543
Lab Sample ID:	I.BLK-PD089431.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089431.D	1		07/10/25	PD071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0039	U	0.0039	0.050	ug/L
319-85-7	beta-BHC	0.0049	U	0.0049	0.050	ug/L
319-86-8	delta-BHC	0.011	U	0.011	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
309-00-2	Aldrin	0.0036	U	0.0036	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
959-98-8	Endosulfan I	0.0031	U	0.0031	0.050	ug/L
60-57-1	Dieldrin	0.0036	U	0.0036	0.050	ug/L
72-55-9	4,4-DDE	0.0037	U	0.0037	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
33213-65-9	Endosulfan II	0.0079	U	0.0079	0.050	ug/L
72-54-8	4,4-DDD	0.0071	U	0.0071	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0037	U	0.0037	0.050	ug/L
50-29-3	4,4-DDT	0.0035	U	0.0035	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0093	U	0.0093	0.050	ug/L
7421-93-4	Endrin aldehyde	0.011	U	0.011	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0035	U	0.0035	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0039	U	0.0039	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	23.9		57 - 171	119%	SPK: 20
877-09-8	Tetrachloro-m-xylene	22.0		61 - 148	110%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/10/25
Project:	South River WM Replacement	Date Received:	07/10/25
Client Sample ID:	PIBLK-PD089431.D	SDG No.:	Q2543
Lab Sample ID:	I.BLK-PD089431.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089431.D	1		07/10/25	PD071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/10/25
Project:	South River WM Replacement	Date Received:	07/10/25
Client Sample ID:	PIBLK-PD089447.D	SDG No.:	Q2543
Lab Sample ID:	I.BLK-PD089447.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089447.D	1		07/10/25	PD071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0039	U	0.0039	0.050	ug/L
319-85-7	beta-BHC	0.0049	U	0.0049	0.050	ug/L
319-86-8	delta-BHC	0.011	U	0.011	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
309-00-2	Aldrin	0.0036	U	0.0036	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
959-98-8	Endosulfan I	0.0031	U	0.0031	0.050	ug/L
60-57-1	Dieldrin	0.0036	U	0.0036	0.050	ug/L
72-55-9	4,4-DDE	0.0037	U	0.0037	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
33213-65-9	Endosulfan II	0.0079	U	0.0079	0.050	ug/L
72-54-8	4,4-DDD	0.0071	U	0.0071	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0037	U	0.0037	0.050	ug/L
50-29-3	4,4-DDT	0.0035	U	0.0035	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0093	U	0.0093	0.050	ug/L
7421-93-4	Endrin aldehyde	0.011	U	0.011	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0035	U	0.0035	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0039	U	0.0039	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	16.3		57 - 171	81%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.6		61 - 148	108%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/10/25
Project:	South River WM Replacement	Date Received:	07/10/25
Client Sample ID:	PIBLK-PD089447.D	SDG No.:	Q2543
Lab Sample ID:	I.BLK-PD089447.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089447.D	1		07/10/25	PD071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168784BS	SDG No.:	Q2543
Lab Sample ID:	PB168784BS	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	100 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089434.D	1	07/10/25 08:35	07/10/25 14:02	PB168784

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	16.7		0.13	1.70	ug/kg
319-85-7	beta-BHC	16.5		0.18	1.70	ug/kg
319-86-8	delta-BHC	16.8		0.39	1.70	ug/kg
58-89-9	gamma-BHC (Lindane)	16.8		0.14	1.70	ug/kg
76-44-8	Heptachlor	16.4		0.12	1.70	ug/kg
309-00-2	Aldrin	16.8		0.12	1.70	ug/kg
1024-57-3	Heptachlor epoxide	17.0		0.19	1.70	ug/kg
959-98-8	Endosulfan I	17.0		0.14	1.70	ug/kg
60-57-1	Dieldrin	16.8		0.14	1.70	ug/kg
72-55-9	4,4-DDE	16.8		0.14	1.70	ug/kg
72-20-8	Endrin	15.8		0.14	1.70	ug/kg
33213-65-9	Endosulfan II	16.7		0.29	1.70	ug/kg
72-54-8	4,4-DDD	17.0		0.15	1.70	ug/kg
1031-07-8	Endosulfan Sulfate	16.7		0.13	1.70	ug/kg
50-29-3	4,4-DDT	16.2		0.14	1.70	ug/kg
72-43-5	Methoxychlor	15.6		0.37	1.70	ug/kg
53494-70-5	Endrin ketone	17.2		0.19	1.70	ug/kg
7421-93-4	Endrin aldehyde	16.5		0.37	1.70	ug/kg
5103-71-9	alpha-Chlordane	16.7		0.12	1.70	ug/kg
5103-74-2	gamma-Chlordane	16.7		0.15	1.70	ug/kg
8001-35-2	Toxaphene	5.40	U	5.40	33.0	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	19.1		20 - 144	96%	SPK: 20
877-09-8	Tetrachloro-m-xylene	17.9		19 - 148	89%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168784BS	SDG No.:	Q2543
Lab Sample ID:	PB168784BS	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	100 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089434.D	1	07/10/25 08:35	07/10/25 14:02	PB168784

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23MS	SDG No.:	Q2543
Lab Sample ID:	Q2543-03MS	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	85 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089441.D	1	07/10/25 08:35	07/10/25 15:50	PB168784

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	18.5		0.15	2.00	ug/kg
319-85-7	beta-BHC	17.9		0.21	2.00	ug/kg
319-86-8	delta-BHC	18.1		0.46	2.00	ug/kg
58-89-9	gamma-BHC (Lindane)	18.4		0.16	2.00	ug/kg
76-44-8	Heptachlor	17.6		0.14	2.00	ug/kg
309-00-2	Aldrin	18.1		0.14	2.00	ug/kg
1024-57-3	Heptachlor epoxide	17.7		0.22	2.00	ug/kg
959-98-8	Endosulfan I	17.1		0.16	2.00	ug/kg
60-57-1	Dieldrin	16.7		0.16	2.00	ug/kg
72-55-9	4,4-DDE	16.7		0.16	2.00	ug/kg
72-20-8	Endrin	15.7		0.16	2.00	ug/kg
33213-65-9	Endosulfan II	15.1		0.34	2.00	ug/kg
72-54-8	4,4-DDD	15.0		0.18	2.00	ug/kg
1031-07-8	Endosulfan Sulfate	14.4		0.15	2.00	ug/kg
50-29-3	4,4-DDT	14.1		0.16	2.00	ug/kg
72-43-5	Methoxychlor	13.0		0.43	2.00	ug/kg
53494-70-5	Endrin ketone	14.0		0.22	2.00	ug/kg
7421-93-4	Endrin aldehyde	14.6		0.43	2.00	ug/kg
5103-71-9	alpha-Chlordane	16.9		0.14	2.00	ug/kg
5103-74-2	gamma-Chlordane	17.0		0.18	2.00	ug/kg
8001-35-2	Toxaphene	6.40	U	6.40	38.7	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	13.4		20 - 144	67%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.6		19 - 148	98%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23MS	SDG No.:	Q2543
Lab Sample ID:	Q2543-03MS	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	85 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089441.D	1	07/10/25 08:35	07/10/25 15:50	PB168784

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23MSD	SDG No.:	Q2543
Lab Sample ID:	Q2543-03MSD	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	85 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089442.D	1	07/10/25 08:35	07/10/25 16:04	PB168784

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	18.5		0.15	2.00	ug/kg
319-85-7	beta-BHC	17.9		0.21	2.00	ug/kg
319-86-8	delta-BHC	18.4		0.46	2.00	ug/kg
58-89-9	gamma-BHC (Lindane)	18.4		0.16	2.00	ug/kg
76-44-8	Heptachlor	17.6		0.14	2.00	ug/kg
309-00-2	Aldrin	18.4		0.14	2.00	ug/kg
1024-57-3	Heptachlor epoxide	18.4		0.22	2.00	ug/kg
959-98-8	Endosulfan I	17.6		0.16	2.00	ug/kg
60-57-1	Dieldrin	16.9		0.16	2.00	ug/kg
72-55-9	4,4-DDE	17.0		0.16	2.00	ug/kg
72-20-8	Endrin	16.3		0.16	2.00	ug/kg
33213-65-9	Endosulfan II	15.6		0.34	2.00	ug/kg
72-54-8	4,4-DDD	15.7		0.18	2.00	ug/kg
1031-07-8	Endosulfan Sulfate	15.1		0.15	2.00	ug/kg
50-29-3	4,4-DDT	14.5		0.16	2.00	ug/kg
72-43-5	Methoxychlor	13.2		0.43	2.00	ug/kg
53494-70-5	Endrin ketone	14.1		0.22	2.00	ug/kg
7421-93-4	Endrin aldehyde	15.1		0.43	2.00	ug/kg
5103-71-9	alpha-Chlordane	17.5		0.14	2.00	ug/kg
5103-74-2	gamma-Chlordane	17.7		0.18	2.00	ug/kg
8001-35-2	Toxaphene	6.30	U	6.30	38.7	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	13.4		20 - 144	67%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.3		19 - 148	97%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23MSD	SDG No.:	Q2543
Lab Sample ID:	Q2543-03MSD	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	85 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089442.D	1	07/10/25 08:35	07/10/25 16:04	PB168784

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CALIBRATION SUMMARY

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RETENTION TIMES OF INITIAL CALIBRATION

Lab Name: Alliance
Lab Code: ACE
Instrument ID: ECD_D

Contract: CAMP02
SDG NO.: Q2543
Calibration Date(s): 06/17/2025 06/17/2025
Calibration Times: 15:52 16:47

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID: RT 100 = PD088993.D RT 075 = PD088994.D
RT 050 = PD088995.D RT 025 = PD088996.D RT 005 = PD088997.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
4,4'-DDD	6.71	6.70	6.71	6.70	6.70	6.70	6.60	6.80
4,4'-DDE	6.20	6.20	6.20	6.20	6.19	6.20	6.10	6.30
4,4'-DDT	7.02	7.02	7.02	7.02	7.02	7.02	6.92	7.12
Aldrin	5.27	5.27	5.27	5.27	5.27	5.27	5.17	5.37
alpha-BHC	4.00	4.00	4.00	4.00	4.00	4.00	3.90	4.10
alpha-Chlordane	6.03	6.03	6.03	6.03	6.03	6.03	5.93	6.13
beta-BHC	4.52	4.52	4.52	4.52	4.52	4.51	4.41	4.61
Decachlorobiphenyl	9.07	9.07	9.07	9.07	9.07	9.07	8.97	9.17
delta-BHC	4.76	4.76	4.76	4.76	4.76	4.76	4.66	4.86
Dieldrin	6.35	6.35	6.35	6.35	6.35	6.35	6.25	6.45
Endosulfan I	6.07	6.07	6.08	6.07	6.07	6.07	5.97	6.17
Endosulfan II	6.79	6.79	6.79	6.79	6.79	6.79	6.69	6.89
Endosulfan sulfate	7.15	7.15	7.15	7.15	7.15	7.15	7.05	7.25
Endrin	6.57	6.57	6.58	6.57	6.57	6.57	6.47	6.67
Endrin aldehyde	6.92	6.91	6.92	6.91	6.91	6.91	6.81	7.01
Endrin ketone	7.63	7.63	7.63	7.63	7.63	7.63	7.53	7.73
gamma-BHC (Lindane)	4.33	4.33	4.33	4.33	4.33	4.33	4.23	4.43
gamma-Chlordane	5.95	5.95	5.95	5.95	5.95	5.95	5.85	6.05
Heptachlor	4.93	4.93	4.93	4.93	4.93	4.93	4.83	5.03
Heptachlor epoxide	5.69	5.69	5.69	5.69	5.69	5.69	5.59	5.79
Methoxychlor	7.49	7.49	7.49	7.49	7.49	7.49	7.39	7.59
Tetrachloro-m-xylene	3.55	3.55	3.55	3.55	3.55	3.55	3.45	3.65

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RETENTION TIMES OF INITIAL CALIBRATION

Lab Name: Alliance
Lab Code: ACE
Instrument ID: ECD_D

Contract: CAMP02
SDG NO.: Q2543
Calibration Date(s): 06/17/2025 06/17/2025
Calibration Times: 15:52 16:47

GC Column: ZB-MR2 ID: 0.32 (mm)

LAB FILE ID: RT 100 = PD088993.D RT 075 = PD088994.D
RT 050 = PD088995.D RT 025 = PD088996.D RT 005 = PD088997.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
4,4'-DDD	5.93	5.93	5.93	5.93	5.93	5.93	5.83	6.03
4,4'-DDE	5.38	5.38	5.38	5.38	5.38	5.38	5.28	5.48
4,4'-DDT	6.18	6.18	6.18	6.18	6.18	6.18	6.08	6.28
Aldrin	4.37	4.37	4.37	4.37	4.37	4.37	4.27	4.47
alpha-BHC	3.39	3.39	3.39	3.39	3.39	3.39	3.29	3.49
alpha-Chlordane	5.19	5.19	5.19	5.19	5.19	5.19	5.09	5.29
beta-BHC	4.03	4.03	4.03	4.03	4.03	4.03	3.93	4.13
Decachlorobiphenyl	8.07	8.07	8.07	8.07	8.07	8.07	7.97	8.17
delta-BHC	4.26	4.26	4.26	4.26	4.26	4.26	4.16	4.36
Dieldrin	5.51	5.51	5.51	5.51	5.51	5.51	5.41	5.61
Endosulfan I	5.25	5.25	5.25	5.25	5.25	5.25	5.15	5.35
Endosulfan II	6.08	6.08	6.08	6.08	6.08	6.08	5.98	6.18
Endosulfan sulfate	6.48	6.48	6.48	6.48	6.48	6.48	6.38	6.58
Endrin	5.79	5.79	5.79	5.79	5.79	5.79	5.69	5.89
Endrin aldehyde	6.26	6.26	6.26	6.26	6.26	6.26	6.16	6.36
Endrin ketone	6.99	6.99	6.99	6.99	6.99	6.99	6.89	7.09
gamma-BHC (Lindane)	3.73	3.73	3.73	3.73	3.73	3.73	3.63	3.83
gamma-Chlordane	5.13	5.13	5.13	5.13	5.13	5.13	5.03	5.23
Heptachlor	4.08	4.08	4.08	4.08	4.08	4.08	3.98	4.18
Heptachlor epoxide	4.87	4.87	4.87	4.87	4.87	4.87	4.77	4.97
Methoxychlor	6.76	6.75	6.76	6.75	6.75	6.75	6.65	6.85
Tetrachloro-m-xylene	2.88	2.88	2.88	2.88	2.88	2.88	2.78	2.98

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Lab Name: Alliance
Lab Code: ACE
Instrument ID: ECD_D

Contract: CAMP02
SDG NO.: Q2543
Calibration Date(s): 06/17/2025 06/17/2025
Calibration Times: 15:52 16:47

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 100 =** PD088993.D **CF 075 =** PD088994.D
CF 050 = PD088995.D **CF 025 =** PD088996.D **CF 005 =** PD088997.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
4,4'-DDD	3557450000	3439230000	3414120000	3228670000	3520780000	3432050000	4
4,4'-DDE	4564130000	4401240000	4312380000	4092310000	4435110000	4361030000	4
4,4'-DDT	3928430000	3802000000	3763430000	3580670000	3866490000	3788210000	3
Aldrin	5504150000	5312640000	5254800000	4989300000	5504000000	5312980000	4
alpha-BHC	6295370000	6031790000	5874750000	5417910000	5525530000	5829070000	6
alpha-Chlordane	4885060000	4758900000	4734630000	4584390000	5229700000	4838540000	5
beta-BHC	2136750000	2100860000	2137680000	2144670000	2515730000	2207140000	8
Decachlorobiphenyl	3598890000	3628150000	3773200000	3897960000	4739940000	3927630000	12
delta-BHC	5546280000	5292010000	5182350000	4751190000	4892690000	5132900000	6
Dieldrin	4933650000	4797080000	4750270000	4527510000	4978810000	4797470000	4
Endosulfan I	4511200000	4405770000	4412600000	4289200000	4918470000	4507450000	5
Endosulfan II	3829260000	3982180000	4002080000	3816490000	4553000000	4036600000	7
Endosulfan sulfate	3786900000	3718160000	3741600000	3667440000	4271990000	3837220000	6
Endrin	4238140000	4109540000	4096430000	3878120000	4305700000	4125590000	4
Endrin aldehyde	2964260000	2935670000	2964230000	2966830000	3488720000	3063940000	8
Endrin ketone	4050100000	3970810000	4004900000	3895960000	4443590000	4073070000	5
gamma-BHC (Lindane)	5900830000	5686510000	5566590000	5221690000	5532800000	5581680000	4
gamma-Chlordane	4869330000	4801300000	4716110000	4508810000	5045020000	4788110000	4
Heptachlor	5621840000	5429540000	5358570000	5116310000	5733550000	5451960000	4
Heptachlor epoxide	4794850000	4673610000	4749650000	4554690000	5346870000	4823940000	6
Methoxychlor	1926110000	1918890000	1971480000	1982080000	2304580000	2020630000	8
Tetrachloro-m-xylene	2812300000	2762040000	2767280000	2751820000	3172230000	2853130000	6

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Lab Name: Alliance
Lab Code: ACE
Instrument ID: ECD_D

Contract: CAMP02
SDG NO.: Q2543
Calibration Date(s): 06/17/2025 06/17/2025
Calibration Times: 15:52 16:47

GC Column: ZB-MR2 **ID:** 0.32 (mm)

LAB FILE ID: CF 100 = PD088993.D CF 075 = PD088994.D
CF 050 = PD088995.D CF 025 = PD088996.D CF 005 = PD088997.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
4,4'-DDD	17754100000	17899700000	18191100000	18805800000	22996200000	19129400000	11
4,4'-DDE	21343500000	21440200000	21823600000	22564100000	27409000000	22916100000	11
4,4'-DDT	19391000000	19327800000	19594100000	20005200000	23078500000	20279300000	8
Aldrin	22719200000	22747700000	23159400000	23852800000	28607200000	24217300000	10
alpha-BHC	25649000000	25438700000	25849200000	26153100000	30895500000	26797100000	9
alpha-Chlordane	21191300000	21145300000	21570900000	22517200000	28059300000	22896800000	13
beta-BHC	9903630000	9918550000	10198200000	10624100000	13086800000	10746200000	12
Decachlorobiphenyl	17946500000	17939700000	18428600000	19427500000	25107500000	19770000000	15
delta-BHC	23614400000	23533700000	23918700000	24298300000	29003000000	24873600000	9
Dieldrin	21438700000	21622000000	22120600000	22941800000	27919200000	23208500000	12
Endosulfan I	19170300000	19201000000	19315500000	20752900000	25772600000	20842500000	14
Endosulfan II	18473200000	18573800000	19087100000	20002300000	24846800000	20196600000	13
Endosulfan sulfate	17925600000	18043500000	18492500000	19409200000	24234500000	19621100000	13
Endrin	20535400000	19906600000	20644700000	21276500000	26206500000	21713900000	12
Endrin aldehyde	13773600000	13920200000	14379400000	15195500000	19287900000	15311300000	15
Endrin ketone	19587400000	19824900000	20446500000	21535300000	26614600000	21601700000	13
gamma-BHC (Lindane)	23622800000	23442000000	23749900000	24221500000	28748400000	24756900000	9
gamma-Chlordane	22229100000	22022500000	22519500000	23493700000	29348800000	23922700000	13
Heptachlor	23291600000	23365200000	23922200000	24716000000	29896800000	25038400000	11
Heptachlor epoxide	20080600000	20251900000	20827300000	21695300000	26635200000	21898100000	12
Methoxychlor	9712450000	9897880000	10259100000	10830900000	13140100000	10768100000	13
Tetrachloro-m-xylene	15879800000	15866400000	15978000000	16730900000	20310700000	16953200000	11

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

Instrument ID: ECD_D **Date(s) Analyzed:** 06/17/2025 06/17/2025

GC Column: ZB-MR1 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	500	1	6.24	6.14	6.34	33601800
		2	6.44	6.34	6.54	47528600
		3	7.15	7.05	7.25	87292700
		4	7.56	7.46	7.66	111357000
		5	7.93	7.83	8.03	63112600

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

Instrument ID: ECD_D **Date(s) Analyzed:** 06/17/2025 06/17/2025

GC Column: ZB-MR2 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	500	1	5.47	5.37	5.57	158160000
		2	5.65	5.55	5.75	108820000
		3	6.76	6.66	6.86	511856000
		4	7.20	7.10	7.30	350145000
		5	7.33	7.23	7.43	253920000

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

Continuing Calib Date: 07/10/2025 **Initial Calibration Date(s):** 06/17/2025 06/17/2025

Continuing Calib Time: 12:30 **Initial Calibration Time(s):** 15:52 16:47

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.07	9.07	8.97	9.17	0.00
Tetrachloro-m-xylene	3.55	3.55	3.45	3.65	0.00
alpha-BHC	4.00	4.00	3.90	4.10	0.00
beta-BHC	4.52	4.52	4.42	4.62	0.01
delta-BHC	4.76	4.76	4.66	4.86	0.00
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
Heptachlor	4.93	4.93	4.83	5.03	0.00
Aldrin	5.27	5.27	5.17	5.37	0.00
Heptachlor epoxide	5.69	5.69	5.59	5.79	0.00
Endosulfan I	6.07	6.08	5.98	6.18	0.01
Dieldrin	6.35	6.35	6.25	6.45	0.00
4,4'-DDE	6.20	6.20	6.10	6.30	0.00
Endrin	6.57	6.58	6.48	6.68	0.01
Endosulfan II	6.79	6.79	6.69	6.89	0.01
4,4'-DDD	6.70	6.71	6.61	6.81	0.01
Endosulfan sulfate	7.15	7.15	7.05	7.25	0.00
4,4'-DDT	7.02	7.02	6.92	7.12	0.00
Methoxychlor	7.49	7.49	7.39	7.59	0.00
Endrin ketone	7.63	7.63	7.53	7.73	0.00
Endrin aldehyde	6.91	6.92	6.82	7.02	0.01
alpha-Chlordane	6.03	6.03	5.93	6.13	0.00
gamma-Chlordane	5.95	5.95	5.85	6.05	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

Continuing Calib Date: 07/10/2025 **Initial Calibration Date(s):** 06/17/2025 06/17/2025

Continuing Calib Time: 12:30 **Initial Calibration Time(s):** 15:52 16:47

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	8.07	8.07	7.97	8.17	0.00
Tetrachloro-m-xylene	2.88	2.88	2.78	2.98	0.00
alpha-BHC	3.39	3.39	3.29	3.49	0.00
beta-BHC	4.02	4.03	3.93	4.13	0.01
delta-BHC	4.26	4.26	4.16	4.36	0.00
gamma-BHC (Lindane)	3.73	3.73	3.63	3.83	0.00
Heptachlor	4.08	4.08	3.98	4.18	0.00
Aldrin	4.37	4.37	4.27	4.47	0.00
Heptachlor epoxide	4.87	4.87	4.77	4.97	0.00
Endosulfan I	5.24	5.25	5.15	5.35	0.01
Dieldrin	5.51	5.51	5.41	5.61	0.00
4,4'-DDE	5.37	5.38	5.28	5.48	0.01
Endrin	5.79	5.79	5.69	5.89	0.00
Endosulfan II	6.08	6.08	5.98	6.18	0.00
4,4'-DDD	5.93	5.93	5.83	6.03	0.00
Endosulfan sulfate	6.48	6.48	6.38	6.58	0.00
4,4'-DDT	6.18	6.18	6.08	6.28	0.00
Methoxychlor	6.75	6.76	6.66	6.86	0.01
Endrin ketone	6.99	6.99	6.89	7.09	0.00
Endrin aldehyde	6.26	6.26	6.16	6.36	0.00
alpha-Chlordane	5.19	5.19	5.09	5.29	0.00
gamma-Chlordane	5.12	5.13	5.03	5.23	0.01

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No.: CCAL01 **Date Analyzed:** 07/10/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD089432.D **Time Analyzed:** 12:30

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.704	6.605	6.805	51.350	50.000	2.7
4,4'-DDE	6.195	6.096	6.296	50.690	50.000	1.4
4,4'-DDT	7.019	6.921	7.121	49.590	50.000	-0.8
Aldrin	5.270	5.171	5.371	51.560	50.000	3.1
alpha-BHC	3.998	3.899	4.099	52.080	50.000	4.2
alpha-Chlordane	6.026	5.927	6.127	50.700	50.000	1.4
beta-BHC	4.515	4.415	4.615	50.030	50.000	0.1
Decachlorobiphenyl	9.069	8.972	9.172	49.450	50.000	-1.1
delta-BHC	4.763	4.664	4.864	54.450	50.000	8.9
Dieldrin	6.346	6.247	6.447	51.040	50.000	2.1
Endosulfan I	6.073	5.975	6.175	50.780	50.000	1.6
Endosulfan II	6.785	6.686	6.886	51.070	50.000	2.1
Endosulfan sulfate	7.148	7.049	7.249	49.480	50.000	-1.0
Endrin	6.573	6.475	6.675	48.550	50.000	-2.9
Endrin aldehyde	6.914	6.815	7.015	48.380	50.000	-3.2
Endrin ketone	7.628	7.530	7.730	50.230	50.000	0.5
gamma-BHC (Lindane)	4.329	4.230	4.430	51.710	50.000	3.4
gamma-Chlordane	5.945	5.846	6.046	51.120	50.000	2.2
Heptachlor	4.928	4.829	5.029	51.590	50.000	3.2
Heptachlor epoxide	5.689	5.591	5.791	50.170	50.000	0.3
Methoxychlor	7.492	7.393	7.593	46.600	50.000	-6.8
Tetrachloro-m-xylene	3.549	3.450	3.650	51.680	50.000	3.4

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No.: CCAL01 **Date Analyzed:** 07/10/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD089432.D **Time Analyzed:** 12:30

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.927	5.830	6.030	52.780	50.000	5.6
4,4'-DDE	5.373	5.275	5.475	53.420	50.000	6.8
4,4'-DDT	6.181	6.084	6.284	51.610	50.000	3.2
Aldrin	4.366	4.269	4.469	53.750	50.000	7.5
alpha-BHC	3.391	3.293	3.493	53.650	50.000	7.3
alpha-Chlordane	5.188	5.091	5.291	53.190	50.000	6.4
beta-BHC	4.023	3.926	4.126	52.780	50.000	5.6
Decachlorobiphenyl	8.070	7.972	8.172	53.860	50.000	7.7
delta-BHC	4.260	4.162	4.362	53.590	50.000	7.2
Dieldrin	5.510	5.413	5.613	53.060	50.000	6.1
Endosulfan I	5.244	5.147	5.347	53.770	50.000	7.5
Endosulfan II	6.078	5.981	6.181	52.450	50.000	4.9
Endosulfan sulfate	6.479	6.383	6.583	52.420	50.000	4.8
Endrin	5.787	5.689	5.889	50.680	50.000	1.4
Endrin aldehyde	6.256	6.159	6.359	50.520	50.000	1.0
Endrin ketone	6.989	6.892	7.092	52.660	50.000	5.3
gamma-BHC (Lindane)	3.726	3.630	3.830	53.590	50.000	7.2
gamma-Chlordane	5.122	5.026	5.226	52.900	50.000	5.8
Heptachlor	4.081	3.983	4.183	52.390	50.000	4.8
Heptachlor epoxide	4.870	4.773	4.973	55.240	50.000	10.5
Methoxychlor	6.752	6.655	6.855	49.380	50.000	-1.2
Tetrachloro-m-xylene	2.879	2.780	2.980	54.960	50.000	9.9

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

Continuing Calib Date: 07/10/2025 **Initial Calibration Date(s):** 06/17/2025 06/17/2025

Continuing Calib Time: 19:03 **Initial Calibration Time(s):** 15:52 16:47

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.07	9.07	8.97	9.17	0.00
Tetrachloro-m-xylene	3.55	3.55	3.45	3.65	0.00
alpha-BHC	4.00	4.00	3.90	4.10	0.00
beta-BHC	4.52	4.52	4.42	4.62	0.01
delta-BHC	4.76	4.76	4.66	4.86	0.00
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
Heptachlor	4.93	4.93	4.83	5.03	0.00
Aldrin	5.27	5.27	5.17	5.37	0.00
Heptachlor epoxide	5.69	5.69	5.59	5.79	0.00
Endosulfan I	6.07	6.08	5.98	6.18	0.01
Dieldrin	6.35	6.35	6.25	6.45	0.00
4,4'-DDE	6.19	6.20	6.10	6.30	0.01
Endrin	6.57	6.58	6.48	6.68	0.01
Endosulfan II	6.79	6.79	6.69	6.89	0.01
4,4'-DDD	6.70	6.71	6.61	6.81	0.01
Endosulfan sulfate	7.15	7.15	7.05	7.25	0.00
4,4'-DDT	7.02	7.02	6.92	7.12	0.00
Methoxychlor	7.49	7.49	7.39	7.59	0.00
Endrin ketone	7.63	7.63	7.53	7.73	0.00
Endrin aldehyde	6.91	6.92	6.82	7.02	0.01
alpha-Chlordane	6.03	6.03	5.93	6.13	0.00
gamma-Chlordane	5.95	5.95	5.85	6.05	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

Continuing Calib Date: 07/10/2025 **Initial Calibration Date(s):** 06/17/2025 06/17/2025

Continuing Calib Time: 19:03 **Initial Calibration Time(s):** 15:52 16:47

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	8.07	8.07	7.97	8.17	0.00
Tetrachloro-m-xylene	2.88	2.88	2.78	2.98	0.00
alpha-BHC	3.39	3.39	3.29	3.49	0.00
beta-BHC	4.02	4.03	3.93	4.13	0.01
delta-BHC	4.26	4.26	4.16	4.36	0.00
gamma-BHC (Lindane)	3.73	3.73	3.63	3.83	0.00
Heptachlor	4.08	4.08	3.98	4.18	0.00
Aldrin	4.37	4.37	4.27	4.47	0.00
Heptachlor epoxide	4.87	4.87	4.77	4.97	0.00
Endosulfan I	5.25	5.25	5.15	5.35	0.00
Dieldrin	5.51	5.51	5.41	5.61	0.00
4,4'-DDE	5.37	5.38	5.28	5.48	0.01
Endrin	5.79	5.79	5.69	5.89	0.00
Endosulfan II	6.08	6.08	5.98	6.18	0.00
4,4'-DDD	5.93	5.93	5.83	6.03	0.00
Endosulfan sulfate	6.48	6.48	6.38	6.58	0.00
4,4'-DDT	6.18	6.18	6.08	6.28	0.00
Methoxychlor	6.75	6.76	6.66	6.86	0.01
Endrin ketone	6.99	6.99	6.89	7.09	0.00
Endrin aldehyde	6.26	6.26	6.16	6.36	0.00
alpha-Chlordane	5.19	5.19	5.09	5.29	0.00
gamma-Chlordane	5.12	5.13	5.03	5.23	0.01

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No.: CCAL02 **Date Analyzed:** 07/10/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD089448.D **Time Analyzed:** 19:03

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.704	6.605	6.805	48.150	50.000	-3.7
4,4'-DDE	6.194	6.096	6.296	50.330	50.000	0.7
4,4'-DDT	7.020	6.921	7.121	43.790	50.000	-12.4
Aldrin	5.270	5.171	5.371	53.130	50.000	6.3
alpha-BHC	3.999	3.899	4.099	53.870	50.000	7.7
alpha-Chlordane	6.026	5.927	6.127	50.530	50.000	1.1
beta-BHC	4.515	4.415	4.615	51.900	50.000	3.8
Decachlorobiphenyl	9.071	8.972	9.172	49.130	50.000	-1.7
delta-BHC	4.763	4.664	4.864	56.310	50.000	12.6
Dieldrin	6.346	6.247	6.447	50.360	50.000	0.7
Endosulfan I	6.073	5.975	6.175	50.400	50.000	0.8
Endosulfan II	6.785	6.686	6.886	46.770	50.000	-6.5
Endosulfan sulfate	7.149	7.049	7.249	46.270	50.000	-7.5
Endrin	6.573	6.475	6.675	45.900	50.000	-8.2
Endrin aldehyde	6.914	6.815	7.015	45.350	50.000	-9.3
Endrin ketone	7.629	7.530	7.730	44.450	50.000	-11.1
gamma-BHC (Lindane)	4.330	4.230	4.430	53.480	50.000	7.0
gamma-Chlordane	5.945	5.846	6.046	51.250	50.000	2.5
Heptachlor	4.929	4.829	5.029	51.830	50.000	3.7
Heptachlor epoxide	5.689	5.591	5.791	50.600	50.000	1.2
Methoxychlor	7.492	7.393	7.593	40.060	50.000	-19.9
Tetrachloro-m-xylene	3.550	3.450	3.650	51.250	50.000	2.5

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No.: CCAL02 **Date Analyzed:** 07/10/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD089448.D **Time Analyzed:** 19:03

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.928	5.830	6.030	52.630	50.000	5.3
4,4'-DDE	5.373	5.275	5.475	53.720	50.000	7.4
4,4'-DDT	6.181	6.084	6.284	47.410	50.000	-5.2
Aldrin	4.367	4.269	4.469	55.150	50.000	10.3
alpha-BHC	3.393	3.293	3.493	55.660	50.000	11.3
alpha-Chlordane	5.189	5.091	5.291	53.940	50.000	7.9
beta-BHC	4.024	3.926	4.126	54.460	50.000	8.9
Decachlorobiphenyl	8.070	7.972	8.172	44.480	50.000	-11.0
delta-BHC	4.261	4.162	4.362	55.350	50.000	10.7
Dieldrin	5.511	5.413	5.613	53.550	50.000	7.1
Endosulfan I	5.246	5.147	5.347	54.160	50.000	8.3
Endosulfan II	6.078	5.981	6.181	50.800	50.000	1.6
Endosulfan sulfate	6.480	6.383	6.583	49.420	50.000	-1.2
Endrin	5.787	5.689	5.889	51.950	50.000	3.9
Endrin aldehyde	6.257	6.159	6.359	48.410	50.000	-3.2
Endrin ketone	6.990	6.892	7.092	46.330	50.000	-7.3
gamma-BHC (Lindane)	3.727	3.630	3.830	55.360	50.000	10.7
gamma-Chlordane	5.124	5.026	5.226	54.290	50.000	8.6
Heptachlor	4.082	3.983	4.183	53.040	50.000	6.1
Heptachlor epoxide	4.871	4.773	4.973	55.620	50.000	11.2
Methoxychlor	6.752	6.655	6.855	43.270	50.000	-13.5
Tetrachloro-m-xylene	2.881	2.780	2.980	54.620	50.000	9.2

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No. (PEM): PEM - PD088991.D **Date Analyzed:** 06/17/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 15:25

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.071	8.970	9.170	21.440	20.000	7.2
Tetrachloro-m-xylene	3.550	3.500	3.600	19.860	20.000	-0.7
alpha-BHC	3.999	3.950	4.050	8.970	10.000	-10.3
beta-BHC	4.514	4.460	4.560	9.720	10.000	-2.8
gamma-BHC (Lindane)	4.330	4.280	4.380	9.320	10.000	-6.8
Endrin	6.574	6.500	6.640	50.260	50.000	0.5
4,4'-DDT	7.020	6.950	7.090	100.820	100.000	0.8
Methoxychlor	7.493	7.420	7.560	229.880	250.000	-8.0

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No. (PEM): PEM - PD088991.D **Date Analyzed:** 06/17/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 15:25

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	8.072	7.970	8.170	21.290	20.000	6.5
Tetrachloro-m-xylene	2.880	2.830	2.930	20.440	20.000	2.2
alpha-BHC	3.393	3.340	3.440	10.570	10.000	5.7
beta-BHC	4.025	3.970	4.080	10.750	10.000	7.5
gamma-BHC (Lindane)	3.729	3.680	3.780	10.580	10.000	5.8
Endrin	5.789	5.720	5.860	50.490	50.000	1.0
4,4'-DDT	6.183	6.110	6.250	96.080	100.000	-3.9
Methoxychlor	6.754	6.680	6.820	198.860	250.000	-20.5

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No. (PEM): PEM - PD089428.D **Date Analyzed:** 07/10/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 10:27

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.072	8.970	9.170	22.230	20.000	11.2
Tetrachloro-m-xylene	3.550	3.500	3.600	21.150	20.000	5.8
alpha-BHC	3.999	3.950	4.050	9.910	10.000	-0.9
beta-BHC	4.516	4.470	4.570	10.840	10.000	8.4
gamma-BHC (Lindane)	4.330	4.280	4.380	10.390	10.000	3.9
Endrin	6.574	6.500	6.640	51.910	50.000	3.8
4,4'-DDT	7.021	6.950	7.090	104.610	100.000	4.6
Methoxychlor	7.493	7.420	7.560	235.400	250.000	-5.8

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No. (PEM): PEM - PD089428.D **Date Analyzed:** 07/10/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 10:27

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	8.070	7.970	8.170	23.690	20.000	18.5
Tetrachloro-m-xylene	2.880	2.830	2.930	23.410	20.000	17.1
alpha-BHC	3.392	3.340	3.440	12.350	10.000	23.5
beta-BHC	4.024	3.970	4.070	12.390	10.000	23.9
gamma-BHC (Lindane)	3.727	3.680	3.780	12.180	10.000	21.8
Endrin	5.788	5.720	5.860	53.360	50.000	6.7
4,4'-DDT	6.182	6.110	6.250	105.390	100.000	5.4
Methoxychlor	6.752	6.680	6.820	210.190	250.000	-15.9

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Analytical Sequence

Client: CDM Smith **SDG No.:** Q2543

Project: South River WM Replacement **Instrument ID:** ECD_D

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 06/17/2025 06/17/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

CLIENT ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	06/17/2025	15:11	PD088990.D	9.07	3.55
PEM	PEM	06/17/2025	15:25	PD088991.D	9.07	3.55
RESCHK	RESCHK	06/17/2025	15:39	PD088992.D	9.07	3.55
PSTDICC100	PSTDICC100	06/17/2025	15:52	PD088993.D	9.07	3.55
PSTDICC075	PSTDICC075	06/17/2025	16:06	PD088994.D	9.07	3.55
PSTDICC050	PSTDICC050	06/17/2025	16:20	PD088995.D	9.07	3.55
PSTDICC025	PSTDICC025	06/17/2025	16:33	PD088996.D	9.07	3.55
PSTDICC005	PSTDICC005	06/17/2025	16:47	PD088997.D	9.07	3.55
PCHLORICC500	PCHLORICC500	06/17/2025	17:28	PD089000.D	9.07	3.55
PTOXICC500	PTOXICC500	06/17/2025	18:36	PD089005.D	9.07	3.55
PEM	PEM	07/10/2025	10:27	PD089428.D	9.07	3.55
I.BLK	I.BLK	07/10/2025	12:16	PD089431.D	9.07	3.55
PSTDCCC050	PSTDCCC050	07/10/2025	12:30	PD089432.D	9.07	3.55
PB168784BL	PB168784BL	07/10/2025	13:31	PD089433.D	9.08	3.56
PB168784BS	PB168784BS	07/10/2025	14:02	PD089434.D	9.08	3.55
TP-41	Q2543-01	07/10/2025	15:09	PD089438.D	9.07	3.55
TP-49	Q2543-02	07/10/2025	15:23	PD089439.D	9.07	3.55
TP-23	Q2543-03	07/10/2025	15:37	PD089440.D	9.07	3.55
TP-23MS	Q2543-03MS	07/10/2025	15:50	PD089441.D	9.07	3.55
TP-23MSD	Q2543-03MSD	07/10/2025	16:04	PD089442.D	9.07	3.55
TP-23-99	Q2543-04	07/10/2025	16:17	PD089443.D	9.07	3.55
I.BLK	I.BLK	07/10/2025	17:12	PD089447.D	9.07	3.55
PSTDCCC050	PSTDCCC050	07/10/2025	19:03	PD089448.D	9.07	3.55

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Analytical Sequence

Client: CDM Smith **SDG No.:** Q2543

Project: South River WM Replacement **Instrument ID:** ECD_D

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 06/17/2025 06/17/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

CLIENT ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	06/17/2025	15:11	PD088990.D	8.07	2.88
PEM	PEM	06/17/2025	15:25	PD088991.D	8.07	2.88
RESCHK	RESCHK	06/17/2025	15:39	PD088992.D	8.07	2.88
PSTDICC100	PSTDICC100	06/17/2025	15:52	PD088993.D	8.07	2.88
PSTDICC075	PSTDICC075	06/17/2025	16:06	PD088994.D	8.07	2.88
PSTDICC050	PSTDICC050	06/17/2025	16:20	PD088995.D	8.07	2.88
PSTDICC025	PSTDICC025	06/17/2025	16:33	PD088996.D	8.07	2.88
PSTDICC005	PSTDICC005	06/17/2025	16:47	PD088997.D	8.07	2.88
PCHLORICC500	PCHLORICC500	06/17/2025	17:28	PD089000.D	8.07	2.88
PTOXICC500	PTOXICC500	06/17/2025	18:36	PD089005.D	8.07	2.88
PEM	PEM	07/10/2025	10:27	PD089428.D	8.07	2.88
I.BLK	I.BLK	07/10/2025	12:16	PD089431.D	8.07	2.88
PSTDCCC050	PSTDCCC050	07/10/2025	12:30	PD089432.D	8.07	2.88
PB168784BL	PB168784BL	07/10/2025	13:31	PD089433.D	8.07	2.88
PB168784BS	PB168784BS	07/10/2025	14:02	PD089434.D	8.07	2.88
TP-41	Q2543-01	07/10/2025	15:09	PD089438.D	8.07	2.88
TP-49	Q2543-02	07/10/2025	15:23	PD089439.D	8.07	2.88
TP-23	Q2543-03	07/10/2025	15:37	PD089440.D	8.07	2.88
TP-23MS	Q2543-03MS	07/10/2025	15:50	PD089441.D	8.07	2.88
TP-23MSD	Q2543-03MSD	07/10/2025	16:04	PD089442.D	8.07	2.88
TP-23-99	Q2543-04	07/10/2025	16:17	PD089443.D	8.07	2.88
I.BLK	I.BLK	07/10/2025	17:12	PD089447.D	8.07	2.88
PSTDCCC050	PSTDCCC050	07/10/2025	19:03	PD089448.D	8.07	2.88

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB168784BS

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

Lab Sample ID: PB168784BS **Date(s) Analyzed:** 07/10/2025 07/10/2025

Instrument ID (1): ECD_D **Instrument ID (2):** ECD_D

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
4,4'-DDD	1	6.71	6.66	6.76	16.1	5.4
	2	5.93	5.88	5.98	17.0	
4,4'-DDE	1	6.20	6.15	6.25	15.6	7.4
	2	5.37	5.32	5.42	16.8	
4,4'-DDT	1	7.03	6.98	7.08	15.4	5.1
	2	6.18	6.13	6.23	16.2	
alpha-BHC	1	4.00	3.95	4.05	15.5	7.5
	2	3.39	3.34	3.44	16.7	
Aldrin	1	5.28	5.23	5.33	15.7	6.8
	2	4.37	4.32	4.42	16.8	
alpha-Chlordane	1	6.03	5.98	6.08	15.7	6.2
	2	5.19	5.14	5.24	16.7	
Endosulfan II	1	6.79	6.74	6.84	16.0	4.3
	2	6.08	6.03	6.13	16.7	
Endosulfan sulfate	1	7.15	7.10	7.20	15.7	6.2
	2	6.48	6.43	6.53	16.7	
beta-BHC	1	4.52	4.47	4.57	15.0	9.5
	2	4.02	3.97	4.07	16.5	
delta-BHC	1	4.77	4.72	4.82	16.7	0.6
	2	4.26	4.21	4.31	16.8	
Endosulfan I	1	6.08	6.03	6.13	15.7	8
	2	5.25	5.20	5.30	17.0	
Dieldrin	1	6.35	6.30	6.40	15.9	5.5
	2	5.51	5.46	5.56	16.8	
Endrin aldehyde	1	6.92	6.87	6.97	15.7	5
	2	6.26	6.21	6.31	16.5	
Methoxychlor	1	7.50	7.45	7.55	14.8	5.3
	2	6.75	6.70	6.80	15.6	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB168784BS

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

Lab Sample ID: PB168784BS **Date(s) Analyzed:** 07/10/2025 07/10/2025

Instrument ID (1): ECD_D **Instrument ID (2):** ECD_D

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Endrin ketone	1	7.63	7.58	7.68	16.1	6.6
	2	6.99	6.94	7.04	17.2	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	15.5	8
	2	3.73	3.68	3.78	16.8	
Heptachlor	1	4.93	4.88	4.98	15.7	4.4
	2	4.08	4.03	4.13	16.4	
Heptachlor epoxide	1	5.70	5.65	5.75	15.5	9.2
	2	4.87	4.82	4.92	17.0	
gamma-Chlordane	1	5.95	5.90	6.00	15.8	5.5
	2	5.12	5.07	5.17	16.7	
Endrin	1	6.58	6.53	6.63	14.9	5.9
	2	5.79	5.74	5.84	15.8	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-23MS

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

Lab Sample ID: Q2543-03MS **Date(s) Analyzed:** 07/10/2025 07/10/2025

Instrument ID (1): ECD_D **Instrument ID (2):** ECD_D

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Endosulfan II	1	6.79	6.74	6.84	14.1	6.8
	2	6.08	6.03	6.13	15.1	
4,4'-DDD	1	6.70	6.65	6.75	14.3	4.8
	2	5.93	5.88	5.98	15.0	
4,4'-DDT	1	7.02	6.97	7.07	13.3	5.8
	2	6.18	6.13	6.23	14.1	
Endrin aldehyde	1	6.91	6.86	6.96	14.4	1.4
	2	6.26	6.21	6.31	14.6	
Endosulfan sulfate	1	7.15	7.10	7.20	13.6	5.7
	2	6.48	6.43	6.53	14.4	
Methoxychlor	1	7.49	7.44	7.54	12.5	3.9
	2	6.75	6.70	6.80	13.0	
Endrin ketone	1	7.63	7.58	7.68	14.0	7.4
	2	6.99	6.94	7.04	13.0	
alpha-BHC	1	4.00	3.95	4.05	17.2	7.3
	2	3.39	3.34	3.44	18.5	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	16.9	8.5
	2	3.73	3.68	3.78	18.4	
Heptachlor	1	4.93	4.88	4.98	15.7	11.4
	2	4.08	4.03	4.13	17.6	
Aldrin	1	5.27	5.22	5.32	16.3	10.5
	2	4.37	4.32	4.42	18.1	
beta-BHC	1	4.52	4.47	4.57	16.0	11.2
	2	4.02	3.97	4.07	17.9	
delta-BHC	1	4.76	4.71	4.81	16.9	6.9
	2	4.26	4.21	4.31	18.1	
Heptachlor epoxide	1	5.69	5.64	5.74	15.1	15.9
	2	4.87	4.82	4.92	17.7	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-23MS

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

Lab Sample ID: Q2543-03MS **Date(s) Analyzed:** 07/10/2025 07/10/2025

Instrument ID (1): ECD_D **Instrument ID (2):** ECD_D

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Endosulfan I	1	6.07	6.02	6.12	14.9	13.8
	2	5.25	5.20	5.30	17.1	
gamma-Chlordane	1	5.95	5.90	6.00	14.8	13.8
	2	5.12	5.07	5.17	17.0	
alpha-Chlordane	1	6.03	5.98	6.08	14.8	13.2
	2	5.19	5.14	5.24	16.9	
4,4'-DDE	1	6.20	6.15	6.25	14.7	12.7
	2	5.37	5.32	5.42	16.7	
Dieldrin	1	6.35	6.30	6.40	14.7	12.7
	2	5.51	5.46	5.56	16.7	
Endrin	1	6.57	6.52	6.62	13.5	15.1
	2	5.79	5.74	5.84	15.7	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-23MSD

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

Lab Sample ID: Q2543-03MSD **Date(s) Analyzed:** 07/10/2025 07/10/2025

Instrument ID (1): ECD_D **Instrument ID (2):** ECD_D

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
4,4'-DDD	1	6.70	6.65	6.75	15.0	4.6
	2	5.93	5.88	5.98	15.7	
4,4'-DDT	1	7.02	6.97	7.07	13.5	7.1
	2	6.18	6.13	6.23	14.5	
alpha-BHC	1	4.00	3.95	4.05	17.4	6.1
	2	3.39	3.34	3.44	18.5	
Aldrin	1	5.27	5.22	5.32	16.4	11.5
	2	4.37	4.32	4.42	18.4	
alpha-Chlordane	1	6.03	5.98	6.08	15.5	12.1
	2	5.19	5.14	5.24	17.5	
4,4'-DDE	1	6.20	6.15	6.25	15.1	11.8
	2	5.37	5.32	5.42	17.0	
Endosulfan II	1	6.79	6.74	6.84	13.8	12.2
	2	6.08	6.03	6.13	15.6	
Endrin aldehyde	1	6.91	6.86	6.96	14.2	6.1
	2	6.26	6.21	6.31	15.1	
Endosulfan sulfate	1	7.15	7.10	7.20	14.2	6.1
	2	6.48	6.43	6.53	15.1	
Methoxychlor	1	7.49	7.44	7.54	12.8	3.1
	2	6.75	6.70	6.80	13.2	
Endrin ketone	1	7.63	7.58	7.68	13.8	2.2
	2	6.99	6.94	7.04	14.1	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	17.4	5.6
	2	3.73	3.68	3.78	18.4	
Heptachlor	1	4.93	4.88	4.98	16.0	9.5
	2	4.08	4.03	4.13	17.6	
beta-BHC	1	4.52	4.47	4.57	16.7	6.9
	2	4.02	3.97	4.07	17.9	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-23MSD

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

Lab Sample ID: Q2543-03MSD **Date(s) Analyzed:** 07/10/2025 07/10/2025

Instrument ID (1): ECD_D **Instrument ID (2):** ECD_D

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
delta-BHC	1	4.76	4.71	4.81	17.8	3.3
	2	4.26	4.21	4.31	18.4	
Heptachlor epoxide	1	5.69	5.64	5.74	16.2	12.7
	2	4.87	4.82	4.92	18.4	
Endosulfan I	1	6.07	6.02	6.12	15.4	13.3
	2	5.25	5.20	5.30	17.6	
gamma-Chlordane	1	5.95	5.90	6.00	15.6	12.6
	2	5.12	5.07	5.17	17.7	
Dieldrin	1	6.35	6.30	6.40	15.2	10.6
	2	5.51	5.46	5.56	16.9	
Endrin	1	6.57	6.52	6.62	14.7	10.3
	2	5.79	5.74	5.84	16.3	

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LAB CHRONICLE

OrderID:	Q2543	**OrderDate:**	7/9/2025 12:26:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	O42,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2543-01	**TP-41**	**SOIL**			**07/08/25**			**07/09/25**
			Gasoline Range Organics	8015D			07/10/25	
			PCB	8082A		07/10/25	07/10/25	
Q2543-02	**TP-49**	**SOIL**			**07/09/25**			**07/09/25**
			Gasoline Range Organics	8015D			07/10/25	
			PCB	8082A		07/10/25	07/10/25	
Q2543-03	**TP-23**	**SOIL**			**07/09/25**			**07/09/25**
			Gasoline Range Organics	8015D			07/10/25	
			PCB	8082A		07/10/25	07/10/25	
Q2543-04	**TP-23-99**	**SOIL**			**07/09/25**			**07/09/25**
			Gasoline Range Organics	8015D			07/10/25	
			PCB	8082A		07/10/25	07/10/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2543 **Order ID:** Q2543

Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

Client ID :

Total Concentration: **0.000**

SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-41	SDG No.:	Q2543
Lab Sample ID:	Q2543-01	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	82 Decanted:
Sample Wt/Vol:	30.04 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO112190.D	1	07/10/25 08:35	07/10/25 14:40	PB168783

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.80	U	4.80	20.7	ug/kg
11104-28-2	Aroclor-1221	4.90	U	4.90	20.7	ug/kg
11141-16-5	Aroclor-1232	4.50	U	4.50	20.7	ug/kg
53469-21-9	Aroclor-1242	4.90	U	4.90	20.7	ug/kg
12672-29-6	Aroclor-1248	7.20	U	7.20	20.7	ug/kg
11097-69-1	Aroclor-1254	3.90	U	3.90	20.7	ug/kg
37324-23-5	Aroclor-1262	6.10	U	6.10	20.7	ug/kg
11100-14-4	Aroclor-1268	4.40	U	4.40	20.7	ug/kg
11096-82-5	Aroclor-1260	3.90	U	3.90	20.7	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.9		32 - 144	99%	SPK: 20
2051-24-3	Decachlorobiphenyl	10.8		32 - 175	54%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-49	SDG No.:	Q2543
Lab Sample ID:	Q2543-02	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	73.9 Decanted:
Sample Wt/Vol:	30.07 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO112191.D	1	07/10/25 08:35	07/10/25 14:58	PB168783

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	5.30	U	5.30	23.0	ug/kg
11104-28-2	Aroclor-1221	5.40	U	5.40	23.0	ug/kg
11141-16-5	Aroclor-1232	5.00	U	5.00	23.0	ug/kg
53469-21-9	Aroclor-1242	5.40	U	5.40	23.0	ug/kg
12672-29-6	Aroclor-1248	8.00	U	8.00	23.0	ug/kg
11097-69-1	Aroclor-1254	4.30	U	4.30	23.0	ug/kg
37324-23-5	Aroclor-1262	6.80	U	6.80	23.0	ug/kg
11100-14-4	Aroclor-1268	4.90	U	4.90	23.0	ug/kg
11096-82-5	Aroclor-1260	4.40	U	4.40	23.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.3		32 - 144	96%	SPK: 20
2051-24-3	Decachlorobiphenyl	15.3		32 - 175	76%	SPK: 20

Comments:

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S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23	SDG No.:	Q2543
Lab Sample ID:	Q2543-03	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	85 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO112192.D	1	07/10/25 08:35	07/10/25 15:15	PB168783

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.60	U	4.60	20.0	ug/kg
11104-28-2	Aroclor-1221	4.70	U	4.70	20.0	ug/kg
11141-16-5	Aroclor-1232	4.40	U	4.40	20.0	ug/kg
53469-21-9	Aroclor-1242	4.70	U	4.70	20.0	ug/kg
12672-29-6	Aroclor-1248	7.00	U	7.00	20.0	ug/kg
11097-69-1	Aroclor-1254	3.80	U	3.80	20.0	ug/kg
37324-23-5	Aroclor-1262	5.90	U	5.90	20.0	ug/kg
11100-14-4	Aroclor-1268	4.20	U	4.20	20.0	ug/kg
11096-82-5	Aroclor-1260	3.80	U	3.80	20.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	23.5		32 - 144	118%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.2		32 - 175	81%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
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S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23-99	SDG No.:	Q2543
Lab Sample ID:	Q2543-04	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	85.4 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO112193.D	1	07/10/25 08:35	07/10/25 15:32	PB168783

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.60	U	4.60	19.9	ug/kg
11104-28-2	Aroclor-1221	4.70	U	4.70	19.9	ug/kg
11141-16-5	Aroclor-1232	4.30	U	4.30	19.9	ug/kg
53469-21-9	Aroclor-1242	4.70	U	4.70	19.9	ug/kg
12672-29-6	Aroclor-1248	6.90	U	6.90	19.9	ug/kg
11097-69-1	Aroclor-1254	3.80	U	3.80	19.9	ug/kg
37324-23-5	Aroclor-1262	5.90	U	5.90	19.9	ug/kg
11100-14-4	Aroclor-1268	4.20	U	4.20	19.9	ug/kg
11096-82-5	Aroclor-1260	3.80	U	3.80	19.9	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.3		32 - 144	112%	SPK: 20
2051-24-3	Decachlorobiphenyl	14.8		32 - 175	74%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

QC SUMMARY

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Surrogate Summary

SDG No.: Q2543

Client: CDM Smith

Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Recovery(%)	Qual	Limits(%) Low	Limits(%) High
I.BLK-PO112087.D	PIBLK-PO112087.D	Tetrachloro-m-xyl	1	20	19.4	97		60	140
		Decachlorobiphen	1	20	18.8	94		60	140
		Tetrachloro-m-xyl	2	20	20.0	100		60	140
		Decachlorobiphen	2	20	19.3	97		60	140
I.BLK-PO112185.D	PIBLK-PO112185.D	Tetrachloro-m-xyl	1	20	17.6	88		60	140
		Decachlorobiphen	1	20	19.8	99		60	140
		Tetrachloro-m-xyl	2	20	17.0	85		60	140
		Decachlorobiphen	2	20	19.3	97		60	140
Q2543-01	TP-41	Tetrachloro-m-xyl	1	20	19.9	99		32	144
		Decachlorobiphen	1	20	9.80	49		32	175
		Tetrachloro-m-xyl	2	20	18.8	94		32	144
		Decachlorobiphen	2	20	10.8	54		32	175
Q2543-02	TP-49	Tetrachloro-m-xyl	1	20	19.3	96		32	144
		Decachlorobiphen	1	20	15.3	76		32	175
		Tetrachloro-m-xyl	2	20	18.1	91		32	144
		Decachlorobiphen	2	20	15.0	75		32	175
Q2543-03	TP-23	Tetrachloro-m-xyl	1	20	23.5	118		32	144
		Decachlorobiphen	1	20	13.5	67		32	175
		Tetrachloro-m-xyl	2	20	22.3	112		32	144
		Decachlorobiphen	2	20	16.2	81		32	175
Q2543-04	TP-23-99	Tetrachloro-m-xyl	1	20	22.3	112		32	144
		Decachlorobiphen	1	20	12.9	65		32	175
		Tetrachloro-m-xyl	2	20	21.5	107		32	144
		Decachlorobiphen	2	20	14.8	74		32	175
I.BLK-PO112200.D	PIBLK-PO112200.D	Tetrachloro-m-xyl	1	20	17.9	90		60	140
		Decachlorobiphen	1	20	15.6	78		60	140
		Tetrachloro-m-xyl	2	20	17.3	87		60	140
		Decachlorobiphen	2	20	18.1	91		60	140
I.BLK-PP073553.D	PIBLK-PP073553.D	Tetrachloro-m-xyl	1	20	16.2	81		60	140
		Decachlorobiphen	1	20	17.3	87		60	140
		Tetrachloro-m-xyl	2	20	16.2	81		60	140
		Decachlorobiphen	2	20	17.1	85		60	140
I.BLK-PP073695.D	PIBLK-PP073695.D	Tetrachloro-m-xyl	1	20	18.3	91		60	140
		Decachlorobiphen	1	20	18.4	92		60	140
		Tetrachloro-m-xyl	2	20	18.9	95		60	140
		Decachlorobiphen	2	20	20.9	105		60	140
PB168783BL	PB168783BL	Tetrachloro-m-xyl	1	20	18.7	93		32	144
		Decachlorobiphen	1	20	18.6	93		32	175
		Tetrachloro-m-xyl	2	20	19.5	98		32	144
		Decachlorobiphen	2	20	20.9	104		32	175
PB168783BS	PB168783BS	Tetrachloro-m-xyl	1	20	19.5	97		32	144

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Surrogate Summary

SDG No.: Q2543

Client: CDM Smith

Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Recovery(%)	Qual	Limits(%) Low	Limits(%) High
PB168783BS	PB168783BS	Decachlorobiphen	1	20	19.1	96		32	175
		Tetrachloro-m-xyl	2	20	18.6	93		32	144
		Decachlorobiphen	2	20	22.4	112		32	175
Q2537-01MS	TR-04-07092025MS	Tetrachloro-m-xyl	1	20	15.3	76		32	144
		Decachlorobiphen	1	20	15.6	78		32	175
		Tetrachloro-m-xyl	2	20	14.4	72		32	144
		Decachlorobiphen	2	20	16.3	81		32	175
Q2537-01MSD	TR-04-07092025MSD	Tetrachloro-m-xyl	1	20	15.3	77		32	144
		Decachlorobiphen	1	20	14.9	75		32	175
		Tetrachloro-m-xyl	2	20	14.2	71		32	144
		Decachlorobiphen	2	20	15.4	77		32	175
I.BLK-PP073709.D	PIBLK-PP073709.D	Tetrachloro-m-xyl	1	20	18.5	93		60	140
		Decachlorobiphen	1	20	17.6	88		60	140
		Tetrachloro-m-xyl	2	20	18.5	93		60	140
		Decachlorobiphen	2	20	20.4	102		60	140

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2543 **Analytical Method:** 8082A

Client: CDM Smith **DataFile :** PP073703.D

	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID:	**Q2537-01MS (Column 1)**	**Client Sample ID:**		**TR-04-7.9-2025MS**								
	AR1016	184.1	0	130	ug/kg	71				55	146	
	AR1260	184.1	8.6	117	ug/kg	59				54	119	
Lab Sample ID:	**Q2537-01MS (Column 2)**	**Client Sample ID:**		**TR-04-7.9-2025MS**								
	AR1016	184.1	0	127	ug/kg	69				55	146	
	AR1260	184.1	7.3	118	ug/kg	64				54	119	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2543 **Analytical Method:** 8082A

Client: CDM Smith **DataFile :** PP073704.D

	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID:	**Q2537-01MSD (Column 1)**	**Client Sample ID:**		**TR-04-7.9-2025MSD**								
	AR1016	183.9	0	137	ug/kg	74		4		55	146	15
	AR1260	183.9	8.6	125	ug/kg	63		7		54	119	15
Lab Sample ID:	**Q2537-01MSD (Column 2)**	**Client Sample ID:**		**TR-04-7.9-2025MSD**								
	AR1016	183.9	0	131	ug/kg	71		3		55	146	15
	AR1260	183.9	7.3	124	ug/kg	67		5		54	119	15

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2543 **Analytical Method:** 8082A

Client: CDM Smith **Datafile :** PP073701.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168783BS (Column 1)	AR1016	166.6	152	ug/kg	91				71	120	
	AR1260	166.6	142	ug/kg	85				65	130	
PB168783BS (Column 2)	AR1016	166.6	157	ug/kg	94				71	120	
	AR1260	166.6	157	ug/kg	94				65	130	

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4C

PESTICIDE METHOD BLANK SUMMARY

Client ID: PB168783BL

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2543

Lab Sample ID: PB168783BL | Lab File ID: PP073700.D

Matrix: (soil/water) Solid | Extraction: (Type) SOXH

Sulfur Cleanup: (Y/N) N | Date Extracted: 07/10/2025

Date Analyzed (1): 07/10/2025 | Date Analyzed (2): 07/10/2025

Time Analyzed (1): 13:39 | Time Analyzed (2): 13:39

Instrument ID (1): ECD_P | Instrument ID (2): ECD_P

GC Column (1): ZB-MR1 ID: 0.32 (mm) | GC Column (2): ZB-MR2 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
TP-41	Q2543-01	PO112190.D	07/10/2025	07/10/2025
TP-49	Q2543-02	PO112191.D	07/10/2025	07/10/2025
TP-23	Q2543-03	PO112192.D	07/10/2025	07/10/2025
TP-23-99	Q2543-04	PO112193.D	07/10/2025	07/10/2025
PB168783BS	PB168783BS	PP073701.D	07/10/2025	07/10/2025
TR-04-7.9-2025MS	Q2537-01MS	PP073703.D	07/10/2025	07/10/2025
TR-04-7.9-2025MSD	Q2537-01MSD	PP073704.D	07/10/2025	07/10/2025

COMMENTS:

CALIBRATION SUMMARY

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

RETENTION TIMES OF INITIAL CALIBRATION

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

Instrument ID: ECD_O **Calibration Date(s):** 07/08/2025 07/08/2025

Calibration Times: 14:06 22:16

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PO112088.D RT 750 = PO112089.D

RT 500 = PO112090.D RT 250 = PO112091.D RT 050 = PO112092.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	4.76	4.76	4.76	4.76	4.76	4.76	4.66	4.86
Aroclor-1016-2	(2)	4.78	4.78	4.78	4.78	4.78	4.78	4.68	4.88
Aroclor-1016-3	(3)	4.83	4.84	4.84	4.84	4.84	4.84	4.74	4.94
Aroclor-1016-4	(4)	4.95	4.96	4.96	4.96	4.96	4.96	4.86	5.06
Aroclor-1016-5	(5)	5.21	5.21	5.21	5.21	5.21	5.21	5.11	5.31
Aroclor-1260-1	(1)	6.25	6.25	6.25	6.25	6.25	6.25	6.15	6.35
Aroclor-1260-2	(2)	6.44	6.44	6.44	6.44	6.44	6.44	6.34	6.54
Aroclor-1260-3	(3)	6.81	6.81	6.81	6.81	6.81	6.81	6.71	6.91
Aroclor-1260-4	(4)	7.07	7.07	7.07	7.07	7.07	7.07	6.97	7.17
Aroclor-1260-5	(5)	7.31	7.31	7.31	7.31	7.31	7.31	7.21	7.41
Decachlorobiphenyl		8.70	8.70	8.70	8.70	8.70	8.70	8.60	8.80
Tetrachloro-m-xylene		3.67	3.67	3.67	3.67	3.67	3.67	3.57	3.77
Aroclor-1242-1	(1)	4.76	4.76	4.76	4.76	4.76	4.76	4.66	4.86
Aroclor-1242-2	(2)	4.78	4.78	4.78	4.78	4.78	4.78	4.68	4.88
Aroclor-1242-3	(3)	4.84	4.84	4.84	4.84	4.84	4.84	4.74	4.94
Aroclor-1242-4	(4)	4.96	4.96	4.96	4.96	4.96	4.96	4.86	5.06
Aroclor-1242-5	(5)	5.61	5.61	5.61	5.61	5.61	5.61	5.51	5.71
Decachlorobiphenyl		8.70	8.70	8.70	8.70	8.70	8.70	8.60	8.80
Tetrachloro-m-xylene		3.67	3.67	3.67	3.67	3.67	3.67	3.57	3.77
Aroclor-1248-1	(1)	4.76	4.76	4.76	4.76	4.76	4.76	4.66	4.86
Aroclor-1248-2	(2)	5.00	5.00	5.00	5.00	5.00	5.00	4.90	5.10
Aroclor-1248-3	(3)	5.21	5.21	5.21	5.21	5.21	5.21	5.11	5.31
Aroclor-1248-4	(4)	5.57	5.56	5.57	5.57	5.57	5.57	5.47	5.67
Aroclor-1248-5	(5)	5.61	5.61	5.61	5.61	5.61	5.61	5.51	5.71
Decachlorobiphenyl		8.70	8.70	8.70	8.70	8.70	8.70	8.60	8.80
Tetrachloro-m-xylene		3.67	3.67	3.67	3.67	3.67	3.67	3.57	3.77
Aroclor-1254-1	(1)	5.57	5.56	5.57	5.57	5.57	5.57	5.47	5.67
Aroclor-1254-2	(2)	5.72	5.71	5.72	5.71	5.71	5.72	5.62	5.82
Aroclor-1254-3	(3)	6.12	6.12	6.12	6.12	6.12	6.12	6.02	6.22
Aroclor-1254-4	(4)	6.35	6.35	6.35	6.35	6.35	6.35	6.25	6.45
Aroclor-1254-5	(5)	6.77	6.77	6.77	6.77	6.77	6.77	6.67	6.87
Decachlorobiphenyl		8.70	8.70	8.70	8.70	8.70	8.70	8.60	8.80
Tetrachloro-m-xylene		3.67	3.67	3.67	3.67	3.67	3.67	3.57	3.77
Aroclor-1268-1	(1)	7.59	7.59	7.59	7.59	7.59	7.59	7.49	7.69
Aroclor-1268-2	(2)	7.66	7.66	7.66	7.66	7.66	7.66	7.56	7.76
Aroclor-1268-3	(3)	7.86	7.86	7.86	7.86	7.86	7.86	7.76	7.96
Aroclor-1268-4	(4)	8.15	8.15	8.15	8.15	8.15	8.15	8.05	8.25
Aroclor-1268-5	(5)	8.45	8.44	8.45	8.45	8.45	8.45	8.35	8.55

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	8.70	8.70	8.70	8.70	8.70	8.70	8.60	8.80
Tetrachloro-m-xylene	3.67	3.67	3.67	3.67	3.67	3.67	3.57	3.77

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RETENTION TIMES OF INITIAL CALIBRATION

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

Instrument ID: ECD_O **Calibration Date(s):** 07/08/2025 07/08/2025

Calibration Times: 14:06 22:16

GC Column: ZB-MR2 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PO112088.D RT 750 = PO112089.D

RT 500 = PO112090.D RT 250 = PO112091.D RT 050 = PO112092.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	4.74	4.74	4.76	4.74	4.74	4.75	4.65	4.85
Aroclor-1016-2	(2)	4.76	4.76	4.78	4.76	4.76	4.77	4.67	4.87
Aroclor-1016-3	(3)	4.94	4.94	4.95	4.94	4.94	4.94	4.84	5.04
Aroclor-1016-4	(4)	4.98	4.98	5.00	4.98	4.98	4.98	4.88	5.08
Aroclor-1016-5	(5)	5.19	5.19	5.21	5.19	5.19	5.20	5.10	5.30
Aroclor-1260-1	(1)	6.22	6.22	6.24	6.22	6.22	6.22	6.12	6.32
Aroclor-1260-2	(2)	6.41	6.41	6.43	6.41	6.41	6.41	6.31	6.51
Aroclor-1260-3	(3)	6.56	6.56	6.58	6.56	6.56	6.56	6.46	6.66
Aroclor-1260-4	(4)	7.03	7.03	7.05	7.03	7.03	7.03	6.93	7.13
Aroclor-1260-5	(5)	7.27	7.27	7.29	7.27	7.27	7.28	7.18	7.38
Decachlorobiphenyl		8.65	8.65	8.67	8.65	8.65	8.65	8.55	8.75
Tetrachloro-m-xylene		3.67	3.67	3.68	3.67	3.67	3.67	3.57	3.77
Aroclor-1242-1	(1)	4.74	4.74	4.74	4.74	4.74	4.74	4.64	4.84
Aroclor-1242-2	(2)	4.76	4.76	4.76	4.76	4.76	4.76	4.66	4.86
Aroclor-1242-3	(3)	4.94	4.94	4.94	4.94	4.94	4.94	4.84	5.04
Aroclor-1242-4	(4)	5.02	5.02	5.02	5.02	5.02	5.02	4.92	5.12
Aroclor-1242-5	(5)	5.54	5.54	5.54	5.54	5.54	5.54	5.44	5.64
Decachlorobiphenyl		8.65	8.65	8.65	8.65	8.65	8.65	8.55	8.75
Tetrachloro-m-xylene		3.67	3.67	3.67	3.67	3.67	3.67	3.57	3.77
Aroclor-1248-1	(1)	4.74	4.74	4.74	4.74	4.74	4.74	4.64	4.84
Aroclor-1248-2	(2)	4.98	4.98	4.98	4.98	4.98	4.98	4.88	5.08
Aroclor-1248-3	(3)	5.02	5.02	5.02	5.02	5.02	5.02	4.92	5.12
Aroclor-1248-4	(4)	5.19	5.19	5.19	5.19	5.19	5.19	5.09	5.29
Aroclor-1248-5	(5)	5.58	5.58	5.58	5.58	5.58	5.58	5.48	5.68
Decachlorobiphenyl		8.65	8.65	8.65	8.65	8.65	8.65	8.55	8.75
Tetrachloro-m-xylene		3.67	3.67	3.67	3.67	3.67	3.67	3.57	3.77
Aroclor-1254-1	(1)	5.54	5.54	5.54	5.54	5.54	5.54	5.44	5.64
Aroclor-1254-2	(2)	5.69	5.69	5.69	5.69	5.69	5.69	5.59	5.79
Aroclor-1254-3	(3)	6.09	6.09	6.09	6.09	6.09	6.09	5.99	6.19
Aroclor-1254-4	(4)	6.32	6.32	6.32	6.32	6.32	6.32	6.22	6.42
Aroclor-1254-5	(5)	6.74	6.73	6.73	6.73	6.73	6.73	6.63	6.83
Decachlorobiphenyl		8.65	8.65	8.65	8.65	8.65	8.65	8.55	8.75
Tetrachloro-m-xylene		3.67	3.67	3.67	3.67	3.67	3.67	3.57	3.77
Aroclor-1268-1	(1)	7.55	7.55	7.55	7.55	7.55	7.55	7.45	7.65
Aroclor-1268-2	(2)	7.62	7.62	7.62	7.62	7.62	7.62	7.52	7.72
Aroclor-1268-3	(3)	7.82	7.82	7.82	7.82	7.82	7.82	7.72	7.92
Aroclor-1268-4	(4)	8.11	8.11	8.11	8.11	8.11	8.11	8.01	8.21
Aroclor-1268-5	(5)	8.40	8.40	8.40	8.40	8.40	8.40	8.30	8.50

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	8.65	8.65	8.65	8.65	8.65	8.65	8.55	8.75
Tetrachloro-m-xylene	3.67	3.67	3.67	3.67	3.67	3.67	3.57	3.77

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Lab Name: Alliance
Lab Code: ACE
Instrument ID: ECD_O

Contract: CAMP02
SDG NO.: Q2543
Calibration Date(s): 07/08/2025 07/08/2025
Calibration Times: 14:06 22:16

GC Column: ZB-MR1 **ID:** 0.32 (mm)

LAB FILE ID: CF 1000 = PO112088.D CF 750 = PO112089.D
CF 500 = PO112090.D CF 250 = PO112091.D CF 050 = PO112092.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	360742355	353411084	358608078	351811628	276040300	340122689	11
Aroclor-1016-2	(2)	524757576	513734579	527286258	524874328	395805960	497291740	11
Aroclor-1016-3	(3)	332829086	325012079	334990372	341827996	283910480	323714003	7
Aroclor-1016-4	(4)	267114546	263557440	269039266	265481824	218804880	256799591	8
Aroclor-1016-5	(5)	281257689	272140703	280446704	285989380	248475020	273661899	5
Aroclor-1260-1	(1)	515263930	514045125	524528068	524922328	427435480	501238986	8
Aroclor-1260-2	(2)	755458656	751801572	763083688	740918324	679411120	738134672	5
Aroclor-1260-3	(3)	672764264	679771911	697132702	647584436	580156380	655481939	7
Aroclor-1260-4	(4)	428461498	442815881	457502760	461118372	386340060	435247714	7
Aroclor-1260-5	(5)	1355306152	1333629501	1317199750	1298892100	1007658700	1262537241	11
Decachlorobiphenyl		7091695750	7147123880	7182630500	7285420480	5478354000	6837044922	11
Tetrachloro-m-xylene		10813397260	10474815627	10513291260	10183518000	7488479400	9894700309	14
Aroclor-1242-1	(1)	285009923	305769684	302587940	302628584	252187260	289636678	8
Aroclor-1242-2	(2)	424985528	451558340	449561854	447967952	355524300	425919595	10
Aroclor-1242-3	(3)	267327438	285181779	287377204	288451804	240089600	273685565	8
Aroclor-1242-4	(4)	217524144	232173980	231748124	232379948	212764400	225318119	4
Aroclor-1242-5	(5)	218416651	232437525	224522496	231546684	151431360	211670943	16
Decachlorobiphenyl		6979969120	7147406973	7161879360	7131310800	5658336400	6815780531	10
Tetrachloro-m-xylene		10047633560	10752033107	10538404740	10524037960	8582543200	10088930513	9
Aroclor-1248-1	(1)	231871262	227298380	227625104	251373404	196330000	226899630	9
Aroclor-1248-2	(2)	312226784	305819339	307255800	349605332	266719220	308325295	10
Aroclor-1248-3	(3)	394903515	391569029	392918442	459601740	397606080	407319761	7
Aroclor-1248-4	(4)	577144829	572571723	575557162	615211088	545252760	577147512	4
Aroclor-1248-5	(5)	391149352	391468967	390698366	435680552	342525360	390304519	8
Decachlorobiphenyl		7164669710	7172590053	7258610400	7568481440	5849763800	7002823081	10
Tetrachloro-m-xylene		10966260810	10668995880	10533016680	11674212280	8664104600	10501318050	11
Aroclor-1254-1	(1)	596387386	615301855	615556214	631197528	617123200	615113237	2
Aroclor-1254-2	(2)	526620849	541456496	538329150	552782544	519240660	535685940	2
Aroclor-1254-3	(3)	832372124	848375105	844598876	861920200	810621920	839577645	2
Aroclor-1254-4	(4)	488348458	550588549	528046518	514011204	324098800	481018706	19
Aroclor-1254-5	(5)	772769124	785953607	791521408	805117428	714377600	773947833	5
Decachlorobiphenyl		7313218520	7363897040	7524909560	7619539480	6511414600	7266595840	6
Tetrachloro-m-xylene		10817495530	10970019693	10749863260	10915129200	9106609200	10511823377	8
Aroclor-1268-1	(1)	1933697823	1961714709	1933333182	1889919492	1468606580	1837454357	11

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	1621310763	1652283559	1624883286	1597201648	1292350600	1557605971	10
Aroclor-1268-3	(3)	1337748865	1359325231	1351894922	1337301304	1112111800	1299676424	8
Aroclor-1268-4	(4)	501678112	499381901	514040784	510400332	376538760	480407978	12
Aroclor-1268-5	(5)	3474681887	3495352783	3443761070	3349732680	2555042300	3263714144	12
Decachlorobiphenyl		13779789610	14010961973	13831208240	13686235720	10617540000	13185147109	11
Tetrachloro-m-xylene		10828416470	10960168653	10714217600	10397619080	7773509600	10134786281	13

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Lab Name: Alliance
Lab Code: ACE
Instrument ID: ECD_O

Contract: CAMP02
SDG NO.: Q2543
Calibration Date(s): 07/08/2025 07/08/2025
Calibration Times: 14:06 22:16

GC Column: ZB-MR2 **ID:** 0.32 (mm)

LAB FILE ID: CF 1000 = PO112088.D CF 750 = PO112089.D
CF 500 = PO112090.D CF 250 = PO112091.D CF 050 = PO112092.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	224689947	221197589	229855740	235435032	202993580	222834378	6
Aroclor-1016-2	(2)	333676696	332964816	340716574	344871116	293258760	329097592	6
Aroclor-1016-3	(3)	173220389	172286476	177510406	175323720	150993180	169866834	6
Aroclor-1016-4	(4)	133548654	134722825	140696304	141544972	135624760	137227503	3
Aroclor-1016-5	(5)	172958737	175867975	183374190	179483264	150567480	172450329	7
Aroclor-1260-1	(1)	273966572	275587577	284396370	318959696	249900320	280562107	9
Aroclor-1260-2	(2)	339471861	339883185	345098816	366340024	309189580	339996693	6
Aroclor-1260-3	(3)	285079531	283131084	293155536	294803628	221760800	275586116	11
Aroclor-1260-4	(4)	190320237	194370733	203166394	219087436	196280140	200644988	6
Aroclor-1260-5	(5)	439428363	448516680	455912584	483251276	411533840	447728549	6
Decachlorobiphenyl		1708564380	1754251880	1790007560	1862375960	1502102800	1723460516	8
Tetrachloro-m-xylene		6849689250	6688775747	6823852720	6660365320	4832613200	6371059247	14
Aroclor-1242-1	(1)	180558203	194276476	196154442	205920884	192381760	193858353	5
Aroclor-1242-2	(2)	267145812	285888559	288791934	297310352	277625120	283352355	4
Aroclor-1242-3	(3)	139388587	149896708	150012144	154353128	134735720	145677257	6
Aroclor-1242-4	(4)	132647733	142511831	143624204	149839712	140580100	141840716	4
Aroclor-1242-5	(5)	169256952	182077477	187071418	199409696	170855060	181734121	7
Decachlorobiphenyl		1694985930	1765973813	1799728340	1866433600	1579982000	1741420737	6
Tetrachloro-m-xylene		6408694870	6872035667	6730718280	6766792760	5539281400	6463504595	8
Aroclor-1248-1	(1)	148373409	146783767	149637550	173598112	153448100	154368188	7
Aroclor-1248-2	(2)	200165378	198242231	203122858	230241332	197066700	205767700	7
Aroclor-1248-3	(3)	210851108	208337667	212783398	242780584	199239520	214798455	8
Aroclor-1248-4	(4)	249491134	246252407	253519016	297759984	246611360	258726780	9
Aroclor-1248-5	(5)	244390847	243395885	250986596	299503676	214470400	250549481	12
Decachlorobiphenyl		1741004980	1773180160	1834926600	1999524800	1593214800	1788370268	8
Tetrachloro-m-xylene		6922029440	6722968493	6653358760	7457216520	5595884000	6670291443	10
Aroclor-1254-1	(1)	358701312	372366800	376618238	404921504	393233780	381168327	5
Aroclor-1254-2	(2)	309319461	318506233	325963420	350344944	354921460	331811104	6
Aroclor-1254-3	(3)	457035033	473473401	470706516	496812748	512186320	482042804	5
Aroclor-1254-4	(4)	242702235	264458053	264466114	273730492	258116740	260694727	4
Aroclor-1254-5	(5)	340856875	348898753	356048528	374047448	361929480	356356217	4
Decachlorobiphenyl		1762037980	1801047667	1852268780	1914979680	1705564000	1807179621	4
Tetrachloro-m-xylene		6812677640	6946187027	6790686340	6873927640	5937916200	6672278969	6
Aroclor-1268-1	(1)	486556055	496283868	499490630	514433332	460511800	491455137	4

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	414074889	422901423	425132138	438633692	385189960	417186420	5
Aroclor-1268-3	(3)	309607188	317937561	322370012	335163612	296865480	316388771	5
Aroclor-1268-4	(4)	111375490	114260995	115590378	117536984	98796160	111512001	7
Aroclor-1268-5	(5)	736492551	750146037	748798464	755249104	641904560	726518143	7
Decachlorobiphenyl		3139191470	3230861547	3253774420	3306379000	2721463200	3130333927	8
Tetrachloro-m-xylene		6732535870	6829120120	6762174400	6573365120	5117275800	6402894262	11

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

Instrument ID: ECD_O **Date(s) Analyzed:** 07/08/2025 07/08/2025

GC Column: ZB-MR1 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor-1221	500	1	3.88	3.78	3.98	116614000
		2	3.97	3.87	4.07	78840600
		3	4.05	3.95	4.15	269582000
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.05	3.95	4.15	214668000
		2	4.54	4.44	4.64	113637000
		3	4.78	4.68	4.88	229008000
		4	4.96	4.86	5.06	114297000
		5	5.00	4.90	5.10	73400200
Aroclor-1262	500	1	6.81	6.71	6.91	1021690000
		2	7.31	7.21	7.41	1639370000
		3	7.59	7.49	7.69	641976000
		4	7.66	7.56	7.76	1071430000
		5	8.15	8.05	8.25	448140000

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

Instrument ID: ECD_O **Date(s) Analyzed:** 07/08/2025 07/08/2025

GC Column: ZB-MR2 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor-1221	500	1	3.88	3.78	3.98	82295000
		2	3.96	3.86	4.06	59353600
		3	4.04	3.94	4.14	188777000
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.04	3.94	4.14	150099000
		2	4.76	4.66	4.86	153086000
		3	4.94	4.84	5.04	75506000
		4	5.02	4.92	5.12	65988200
		5	5.19	5.09	5.29	74260000
Aroclor-1262	500	1	6.77	6.67	6.87	407320000
		2	7.27	7.17	7.37	512548000
		3	7.55	7.45	7.65	179524000
		4	7.62	7.52	7.72	290920000
		5	8.11	8.01	8.21	105784000

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RETENTION TIMES OF INITIAL CALIBRATION

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

Instrument ID: ECD_P **Calibration Date(s):** 07/07/2025 07/08/2025

Calibration Times: 21:03 04:24

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PP073554.D RT 750 = PP073555.D

RT 500 = PP073556.D RT 250 = PP073557.D RT 050 = PP073558.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	5.64	5.64	5.64	5.64	5.64	5.64	5.54	5.74
Aroclor-1016-2	(2)	5.66	5.66	5.66	5.66	5.66	5.66	5.56	5.76
Aroclor-1016-3	(3)	5.72	5.72	5.72	5.72	5.72	5.72	5.62	5.82
Aroclor-1016-4	(4)	5.82	5.82	5.82	5.82	5.82	5.82	5.72	5.92
Aroclor-1016-5	(5)	6.11	6.11	6.11	6.11	6.11	6.11	6.01	6.21
Aroclor-1260-1	(1)	7.23	7.23	7.23	7.23	7.23	7.23	7.13	7.33
Aroclor-1260-2	(2)	7.48	7.48	7.48	7.48	7.48	7.48	7.38	7.58
Aroclor-1260-3	(3)	7.84	7.84	7.84	7.84	7.84	7.84	7.74	7.94
Aroclor-1260-4	(4)	8.06	8.07	8.06	8.07	8.06	8.06	7.96	8.16
Aroclor-1260-5	(5)	8.38	8.38	8.38	8.39	8.38	8.38	8.28	8.48
Decachlorobiphenyl		10.18	10.18	10.18	10.18	10.17	10.18	10.08	10.28
Tetrachloro-m-xylene		4.49	4.49	4.49	4.49	4.49	4.49	4.39	4.59
Aroclor-1242-1	(1)	5.64	5.64	5.64	5.64	5.64	5.64	5.54	5.74
Aroclor-1242-2	(2)	5.66	5.66	5.66	5.66	5.66	5.66	5.56	5.76
Aroclor-1242-3	(3)	5.72	5.72	5.72	5.72	5.72	5.72	5.62	5.82
Aroclor-1242-4	(4)	5.82	5.82	5.82	5.82	5.82	5.82	5.72	5.92
Aroclor-1242-5	(5)	6.55	6.55	6.55	6.55	6.55	6.55	6.45	6.65
Decachlorobiphenyl		10.18	10.18	10.17	10.18	10.17	10.18	10.08	10.28
Tetrachloro-m-xylene		4.49	4.49	4.49	4.49	4.49	4.49	4.39	4.59
Aroclor-1248-1	(1)	5.64	5.64	5.64	5.64	5.63	5.64	5.54	5.74
Aroclor-1248-2	(2)	5.91	5.91	5.91	5.91	5.91	5.91	5.81	6.01
Aroclor-1248-3	(3)	6.11	6.11	6.11	6.11	6.11	6.11	6.01	6.21
Aroclor-1248-4	(4)	6.51	6.51	6.51	6.51	6.51	6.51	6.41	6.61
Aroclor-1248-5	(5)	6.55	6.55	6.55	6.55	6.55	6.55	6.45	6.65
Decachlorobiphenyl		10.18	10.18	10.17	10.18	10.17	10.18	10.08	10.28
Tetrachloro-m-xylene		4.49	4.49	4.49	4.49	4.49	4.49	4.39	4.59
Aroclor-1254-1	(1)	6.49	6.49	6.49	6.48	6.49	6.49	6.39	6.59
Aroclor-1254-2	(2)	6.70	6.70	6.70	6.70	6.70	6.70	6.60	6.80
Aroclor-1254-3	(3)	7.07	7.07	7.06	7.06	7.06	7.07	6.97	7.17
Aroclor-1254-4	(4)	7.35	7.35	7.35	7.35	7.35	7.35	7.25	7.45
Aroclor-1254-5	(5)	7.76	7.76	7.76	7.76	7.76	7.76	7.66	7.86
Decachlorobiphenyl		10.18	10.18	10.17	10.18	10.18	10.18	10.08	10.28
Tetrachloro-m-xylene		4.49	4.49	4.49	4.49	4.49	4.49	4.39	4.59
Aroclor-1268-1	(1)	8.69	8.69	8.69	8.69	8.69	8.69	8.59	8.79
Aroclor-1268-2	(2)	8.78	8.79	8.79	8.78	8.79	8.79	8.69	8.89
Aroclor-1268-3	(3)	9.01	9.01	9.01	9.01	9.02	9.01	8.91	9.11
Aroclor-1268-4	(4)	9.43	9.43	9.43	9.43	9.43	9.43	9.33	9.53
Aroclor-1268-5	(5)	9.84	9.84	9.84	9.84	9.84	9.84	9.74	9.94

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	10.18	10.18	10.18	10.17	10.18	10.18	10.08	10.28
Tetrachloro-m-xylene	4.49	4.49	4.49	4.49	4.49	4.49	4.39	4.59

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RETENTION TIMES OF INITIAL CALIBRATION

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

Instrument ID: ECD_P **Calibration Date(s):** 07/07/2025 07/08/2025

Calibration Times: 21:03 04:24

GC Column: ZB-MR2 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PP073554.D RT 750 = PP073555.D

RT 500 = PP073556.D RT 250 = PP073557.D RT 050 = PP073558.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	4.86	4.86	4.86	4.86	4.86	4.86	4.76	4.96
Aroclor-1016-2	(2)	4.88	4.88	4.88	4.88	4.88	4.88	4.78	4.98
Aroclor-1016-3	(3)	5.05	5.05	5.05	5.05	5.05	5.05	4.95	5.15
Aroclor-1016-4	(4)	5.10	5.10	5.09	5.10	5.09	5.09	4.99	5.19
Aroclor-1016-5	(5)	5.31	5.31	5.31	5.31	5.31	5.31	5.21	5.41
Aroclor-1260-1	(1)	6.34	6.34	6.34	6.34	6.34	6.34	6.24	6.44
Aroclor-1260-2	(2)	6.53	6.53	6.53	6.53	6.53	6.53	6.43	6.63
Aroclor-1260-3	(3)	6.68	6.68	6.68	6.68	6.68	6.68	6.58	6.78
Aroclor-1260-4	(4)	7.15	7.15	7.15	7.15	7.15	7.15	7.05	7.25
Aroclor-1260-5	(5)	7.39	7.39	7.39	7.39	7.39	7.39	7.29	7.49
Decachlorobiphenyl		8.78	8.78	8.78	8.78	8.78	8.78	8.68	8.88
Tetrachloro-m-xylene		3.78	3.78	3.78	3.78	3.78	3.78	3.68	3.88
Aroclor-1242-1	(1)	4.86	4.86	4.86	4.86	4.86	4.86	4.76	4.96
Aroclor-1242-2	(2)	4.87	4.88	4.88	4.88	4.88	4.88	4.78	4.98
Aroclor-1242-3	(3)	5.05	5.05	5.05	5.05	5.05	5.05	4.95	5.15
Aroclor-1242-4	(4)	5.14	5.14	5.14	5.14	5.14	5.14	5.04	5.24
Aroclor-1242-5	(5)	5.66	5.66	5.66	5.66	5.66	5.66	5.56	5.76
Decachlorobiphenyl		8.78	8.78	8.78	8.78	8.78	8.78	8.68	8.88
Tetrachloro-m-xylene		3.78	3.78	3.78	3.78	3.78	3.78	3.68	3.88
Aroclor-1248-1	(1)	4.86	4.86	4.86	4.86	4.86	4.86	4.76	4.96
Aroclor-1248-2	(2)	5.09	5.09	5.09	5.09	5.09	5.09	4.99	5.19
Aroclor-1248-3	(3)	5.14	5.14	5.14	5.14	5.14	5.14	5.04	5.24
Aroclor-1248-4	(4)	5.31	5.31	5.31	5.31	5.31	5.31	5.21	5.41
Aroclor-1248-5	(5)	5.70	5.70	5.70	5.70	5.70	5.70	5.60	5.80
Decachlorobiphenyl		8.78	8.78	8.78	8.78	8.78	8.78	8.68	8.88
Tetrachloro-m-xylene		3.78	3.78	3.78	3.78	3.78	3.78	3.68	3.88
Aroclor-1254-1	(1)	5.66	5.66	5.66	5.66	5.66	5.66	5.56	5.76
Aroclor-1254-2	(2)	5.81	5.81	5.81	5.81	5.81	5.81	5.71	5.91
Aroclor-1254-3	(3)	6.21	6.21	6.21	6.21	6.21	6.21	6.11	6.31
Aroclor-1254-4	(4)	6.44	6.44	6.44	6.44	6.44	6.44	6.34	6.54
Aroclor-1254-5	(5)	6.85	6.85	6.85	6.85	6.85	6.85	6.75	6.95
Decachlorobiphenyl		8.78	8.78	8.78	8.78	8.78	8.78	8.68	8.88
Tetrachloro-m-xylene		3.78	3.78	3.78	3.78	3.78	3.78	3.68	3.88
Aroclor-1268-1	(1)	7.67	7.67	7.67	7.67	7.67	7.67	7.57	7.77
Aroclor-1268-2	(2)	7.74	7.74	7.74	7.74	7.74	7.74	7.64	7.84
Aroclor-1268-3	(3)	7.94	7.94	7.94	7.94	7.94	7.94	7.84	8.04
Aroclor-1268-4	(4)	8.23	8.23	8.23	8.23	8.23	8.23	8.13	8.33
Aroclor-1268-5	(5)	8.53	8.53	8.53	8.53	8.53	8.53	8.43	8.63

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	8.78	8.78	8.78	8.78	8.78	8.78	8.68	8.88
Tetrachloro-m-xylene	3.78	3.78	3.78	3.78	3.78	3.78	3.68	3.88

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Lab Name: Alliance
Lab Code: ACE
Instrument ID: ECD_P

Contract: CAMP02
SDG NO.: Q2543
Calibration Date(s): 07/07/2025 07/08/2025
Calibration Times: 21:03 04:24

GC Column: ZB-MR1 **ID:** 0.32 (mm)

LAB FILE ID: CF 1000 = PP073554.D CF 750 = PP073555.D
CF 500 = PP073556.D CF 250 = PP073557.D CF 050 = PP073558.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	42452248	45617859	47138872	50511676	51847220	47513575	8
Aroclor-1016-2	(2)	66518124	70141979	72048808	76716636	70648900	71214889	5
Aroclor-1016-3	(3)	39961628	42046196	44162638	46389840	45755080	43663076	6
Aroclor-1016-4	(4)	33606097	35475740	36592056	38460728	35593260	35945576	5
Aroclor-1016-5	(5)	30910810	31971305	32786356	34274032	26709560	31330413	9
Aroclor-1260-1	(1)	55735594	57789364	59663732	63324028	58293500	58961244	5
Aroclor-1260-2	(2)	82256765	86873544	90393892	97973444	121701660	95839861	15
Aroclor-1260-3	(3)	71122512	73727981	74691298	76804056	69007300	73070629	4
Aroclor-1260-4	(4)	63951646	66011447	66730410	69035472	60770420	65299879	5
Aroclor-1260-5	(5)	147606205	151816095	154896322	160840336	139104740	150852740	5
Decachlorobiphenyl		1075002490	1114272707	1146110620	1163852360	956024000	1091052435	8
Tetrachloro-m-xylene		1314627420	1370591720	1413189460	1469047800	1280173600	1369526000	6
Aroclor-1242-1	(1)	37824570	38531545	40764028	42347748	31473220	38188222	10
Aroclor-1242-2	(2)	59433539	58987884	63134254	65007836	52846680	59882039	7
Aroclor-1242-3	(3)	35307728	35832168	38067086	39311740	34585840	36620912	5
Aroclor-1242-4	(4)	29431539	30211543	31738592	32275500	37022940	32136023	9
Aroclor-1242-5	(5)	31742412	31628361	33353228	35089048	31871320	32736874	4
Decachlorobiphenyl		1095703140	1117596867	1144519060	1154694600	992628000	1101028333	6
Tetrachloro-m-xylene		1336424670	1349665200	1427212360	1438929280	1262569400	1362960182	5
Aroclor-1248-1	(1)	29290065	30340729	31459936	34321104	28940820	30870531	7
Aroclor-1248-2	(2)	37625323	39736876	40535254	44074952	37644360	39923353	6
Aroclor-1248-3	(3)	43927993	45846956	46075290	48569104	37628800	44409629	9
Aroclor-1248-4	(4)	53376796	55925132	57147446	59774616	49178580	55080514	7
Aroclor-1248-5	(5)	51803368	53704276	55758942	57942584	49744040	53790642	6
Decachlorobiphenyl		1098016930	1133084880	1145143920	1172914800	889666400	1087765386	10
Tetrachloro-m-xylene		1321954420	1371326347	1415433040	1456874560	1240770200	1361271713	6
Aroclor-1254-1	(1)	50900598	53159759	55209204	57116384	51561700	53589529	5
Aroclor-1254-2	(2)	77237012	80519573	82538946	86348708	89800160	83288880	6
Aroclor-1254-3	(3)	83677544	86010903	88492372	92072040	91405580	88331688	4
Aroclor-1254-4	(4)	74438148	76222969	79592040	81854844	81227180	78667036	4
Aroclor-1254-5	(5)	71888659	74572743	74620102	76347748	70969780	73679806	3
Decachlorobiphenyl		1107439250	1132832533	1145288580	1145076280	1133429800	1132813289	1
Tetrachloro-m-xylene		1351624000	1395660893	1401155480	1465561640	1387618000	1400324003	3
Aroclor-1268-1	(1)	220572869	225132533	228083942	237689468	204639620	223223686	5

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	188785361	192061012	194228718	202923360	174527620	190505214	5
Aroclor-1268-3	(3)	161320167	164379476	166708106	175220108	160250740	165575719	3
Aroclor-1268-4	(4)	68937885	69804631	69558114	75087068	64331720	69543884	5
Aroclor-1268-5	(5)	477643268	472782711	485154758	497337016	371889540	460961459	10
Decachlorobiphenyl		1977874930	2021254947	2057047680	2189262080	1794844800	2008056887	7
Tetrachloro-m-xylene		1351774000	1390310400	1415817780	1495349000	1314096000	1393469436	5

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Lab Name: Alliance
Lab Code: ACE
Instrument ID: ECD_P

Contract: CAMP02
SDG NO.: Q2543
Calibration Date(s): 07/07/2025 07/08/2025
Calibration Times: 21:03 04:24

GC Column: ZB-MR2 **ID:** 0.32 (mm)

LAB FILE ID: CF 1000 = PP073554.D CF 750 = PP073555.D
CF 500 = PP073556.D CF 250 = PP073557.D CF 050 = PP073558.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	63548895	66956692	68520980	73175628	68671440	68174727	5
Aroclor-1016-2	(2)	95987811	99810097	102589296	109872788	101161940	101884386	5
Aroclor-1016-3	(3)	50406684	53112144	54849034	57930668	54233060	54106318	5
Aroclor-1016-4	(4)	39688708	42104989	43896956	47040184	46673360	43880839	7
Aroclor-1016-5	(5)	50298801	53487816	55660288	59272232	54193420	54582511	6
Aroclor-1260-1	(1)	89335231	94510516	99471332	104207304	100277120	97560301	6
Aroclor-1260-2	(2)	113000947	118559808	124003550	129850992	128772620	122837583	5
Aroclor-1260-3	(3)	102918015	108414332	112293296	117668340	106025080	109463813	5
Aroclor-1260-4	(4)	82942909	90440599	92349274	96325208	84984160	89408430	6
Aroclor-1260-5	(5)	218347404	234684793	232225124	233707816	204717920	224736611	5
Decachlorobiphenyl		1288482360	1338938240	1324505420	1466524480	1197294400	1323148980	7
Tetrachloro-m-xylene		1774031450	1893159427	1873404460	1944042160	1726825000	1842292499	5
Aroclor-1242-1	(1)	53636877	56644489	60339480	62120840	56082120	57764761	6
Aroclor-1242-2	(2)	81745742	82323689	88927402	91756504	87517600	86454187	5
Aroclor-1242-3	(3)	43191003	44194741	47579930	48843488	45924140	45946660	5
Aroclor-1242-4	(4)	40719317	41867060	45117014	46860680	46752460	44263306	6
Aroclor-1242-5	(5)	53173633	53609452	57067394	58584716	53777140	55242467	4
Decachlorobiphenyl		1306642480	1369985587	1353011840	1407476720	1194819200	1326387165	6
Tetrachloro-m-xylene		1787240920	1786937067	1893455580	1997751320	1666197200	1826316417	7
Aroclor-1248-1	(1)	41993150	43590469	45185544	49843992	43861300	44894891	6
Aroclor-1248-2	(2)	55737799	58586344	61889020	66706936	64762540	61536528	7
Aroclor-1248-3	(3)	58429721	61323012	64407590	69469512	66692820	64064531	6
Aroclor-1248-4	(4)	68661033	72026459	75308372	81734520	79156680	75377413	7
Aroclor-1248-5	(5)	69725277	73210425	76423314	81696724	71898780	74590904	6
Decachlorobiphenyl		1298382400	1392805453	1360355620	1440840840	1158845800	1330246023	8
Tetrachloro-m-xylene		1855486030	1865559853	1910416600	1967065360	1674658000	1854637169	6
Aroclor-1254-1	(1)	105364555	111697468	112323806	121711620	129052960	116030082	8
Aroclor-1254-2	(2)	90612135	96205700	96079760	105129084	115091100	100623556	9
Aroclor-1254-3	(3)	142515413	152219476	152099148	162118636	163279600	154446455	5
Aroclor-1254-4	(4)	86996505	93901768	94351020	100389560	97157080	94559187	5
Aroclor-1254-5	(5)	123596587	131044949	130737444	141046724	140798600	133444861	5
Decachlorobiphenyl		1348192280	1398430560	1372338640	1507697520	1377457800	1400823360	4
Tetrachloro-m-xylene		1809940380	1949806187	1892015400	1932532480	1944382600	1905735409	3
Aroclor-1268-1	(1)	290584667	307587391	307795276	323603296	307313580	307376842	4

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	254148086	267727805	267575410	282961968	256026000	265687854	4
Aroclor-1268-3	(3)	211648098	225837245	227309934	242217372	220889640	225580458	5
Aroclor-1268-4	(4)	89640321	95098047	95218176	99881904	85000720	92967834	6
Aroclor-1268-5	(5)	595257746	637650785	622434144	650778188	576631820	616550537	5
Decachlorobiphenyl		2396229270	2556860227	2535017940	2683507840	2355689000	2505460855	5
Tetrachloro-m-xylene		1866286350	1953909840	1937791560	2021719520	1790813600	1914104174	5

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

Instrument ID: ECD_P **Date(s) Analyzed:** 07/07/2025 07/08/2025

GC Column: ZB-MR1 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor-1221	500	1	4.69	4.59	4.79	17866400
		2	4.78	4.68	4.88	13504500
		3	4.85	4.75	4.95	41604800
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.85	4.75	4.95	32650800
		2	5.37	5.27	5.47	16254700
		3	5.66	5.56	5.76	32993400
		4	5.82	5.72	5.92	16445200
		5	5.91	5.81	6.01	10570400
Aroclor-1262	500	1	8.07	7.97	8.17	87027200
		2	8.38	8.28	8.48	198028000
		3	8.70	8.60	8.80	125725000
		4	8.78	8.68	8.88	93262800
		5	9.43	9.33	9.53	63389400

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

Instrument ID: ECD_P **Date(s) Analyzed:** 07/07/2025 07/08/2025

GC Column: ZB-MR2 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor-1221	500	1	3.99	3.89	4.09	27045000
		2	4.08	3.98	4.18	20360400
		3	4.15	4.05	4.25	61448600
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.15	4.05	4.25	46614400
		2	4.88	4.78	4.98	47659800
		3	5.05	4.95	5.15	25029000
		4	5.14	5.04	5.24	21656200
		5	5.31	5.21	5.41	22563400
Aroclor-1262	500	1	6.89	6.79	6.99	147692000
		2	7.15	7.05	7.25	127829000
		3	7.67	7.57	7.77	114019000
		4	7.74	7.64	7.84	184049000
		5	8.23	8.13	8.33	84435600

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

Continuing Calib Date: 07/10/2025 **Initial Calibration Date(s):** 07/08/2025 07/08/2025

Continuing Calib Time: 09:55 **Initial Calibration Time(s):** 14:06 22:16

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	4.76	4.76	4.66	4.86	0.00
Aroclor-1016-2	(2)	4.78	4.78	4.68	4.88	0.00
Aroclor-1016-3	(3)	4.83	4.84	4.74	4.94	0.01
Aroclor-1016-4	(4)	4.95	4.96	4.86	5.06	0.01
Aroclor-1016-5	(5)	5.21	5.21	5.11	5.31	0.00
Aroclor-1260-1	(1)	6.25	6.25	6.15	6.35	0.00
Aroclor-1260-2	(2)	6.44	6.44	6.34	6.54	0.00
Aroclor-1260-3	(3)	6.80	6.81	6.71	6.91	0.01
Aroclor-1260-4	(4)	7.06	7.07	6.97	7.17	0.01
Aroclor-1260-5	(5)	7.31	7.31	7.21	7.41	0.00
Tetrachloro-m-xylene		3.67	3.67	3.57	3.77	0.00
Decachlorobiphenyl		8.70	8.70	8.60	8.80	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

Continuing Calib Date: 07/10/2025 **Initial Calibration Date(s):** 07/08/2025 07/08/2025

Continuing Calib Time: 09:55 **Initial Calibration Time(s):** 14:06 22:16

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.74	4.76	4.66	4.86	0.02
Aroclor-1016-2	(2)	4.76	4.78	4.68	4.88	0.02
Aroclor-1016-3	(3)	4.93	4.95	4.85	5.05	0.02
Aroclor-1016-4	(4)	4.98	5.00	4.90	5.10	0.02
Aroclor-1016-5	(5)	5.19	5.21	5.11	5.31	0.02
Aroclor-1260-1	(1)	6.22	6.24	6.14	6.34	0.02
Aroclor-1260-2	(2)	6.41	6.43	6.33	6.53	0.02
Aroclor-1260-3	(3)	6.56	6.58	6.48	6.68	0.02
Aroclor-1260-4	(4)	7.03	7.05	6.95	7.15	0.02
Aroclor-1260-5	(5)	7.27	7.29	7.19	7.39	0.02
Tetrachloro-m-xylene		3.67	3.68	3.58	3.78	0.02
Decachlorobiphenyl		8.65	8.67	8.57	8.77	0.02

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 07/08/2025 07/08/2025

Client Sample No.: CCAL01 **Date Analyzed:** 07/10/2025

Lab Sample No.: AR1660CCC500 **Data File :** PO112181.D **Time Analyzed:** 09:55

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.758	4.661	4.861	499.430	500.000	-0.1
Aroclor-1016-2	4.776	4.680	4.880	513.210	500.000	2.6
Aroclor-1016-3	4.833	4.736	4.936	498.860	500.000	-0.2
Aroclor-1016-4	4.953	4.856	5.056	510.770	500.000	2.2
Aroclor-1016-5	5.210	5.113	5.313	515.740	500.000	3.1
Aroclor-1260-1	6.248	6.151	6.351	497.790	500.000	-0.4
Aroclor-1260-2	6.437	6.341	6.541	503.840	500.000	0.8
Aroclor-1260-3	6.803	6.707	6.907	498.140	500.000	-0.4
Aroclor-1260-4	7.063	6.967	7.167	519.110	500.000	3.8
Aroclor-1260-5	7.306	7.209	7.409	534.810	500.000	7.0
Decachlorobiphenyl	8.699	8.603	8.803	53.080	50.000	6.2
Tetrachloro-m-xylene	3.670	3.573	3.773	52.160	50.000	4.3

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 07/08/2025 07/08/2025

Client Sample No.: CCAL01 **Date Analyzed:** 07/10/2025

Lab Sample No.: AR1660CCC500 **Data File :** PO112181.D **Time Analyzed:** 09:55

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.740	4.661	4.861	459.390	500.000	-8.1
Aroclor-1016-2	4.759	4.679	4.879	466.230	500.000	-6.8
Aroclor-1016-3	4.934	4.854	5.054	476.460	500.000	-4.7
Aroclor-1016-4	4.977	4.897	5.097	472.030	500.000	-5.6
Aroclor-1016-5	5.189	5.109	5.309	497.890	500.000	-0.4
Aroclor-1260-1	6.218	6.138	6.338	489.330	500.000	-2.1
Aroclor-1260-2	6.406	6.326	6.526	492.960	500.000	-1.4
Aroclor-1260-3	6.558	6.478	6.678	505.180	500.000	1.0
Aroclor-1260-4	7.028	6.948	7.148	472.680	500.000	-5.5
Aroclor-1260-5	7.269	7.190	7.390	474.810	500.000	-5.0
Decachlorobiphenyl	8.647	8.568	8.768	50.630	50.000	1.3
Tetrachloro-m-xylene	3.665	3.584	3.784	49.470	50.000	-1.1

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

Continuing Calib Date: 07/10/2025 **Initial Calibration Date(s):** 07/08/2025 07/08/2025

Continuing Calib Time: 17:18 **Initial Calibration Time(s):** 14:06 22:16

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.76	4.76	4.66	4.86	0.00
Aroclor-1016-2	(2)	4.78	4.78	4.68	4.88	0.00
Aroclor-1016-3	(3)	4.83	4.84	4.74	4.94	0.01
Aroclor-1016-4	(4)	4.95	4.96	4.86	5.06	0.01
Aroclor-1016-5	(5)	5.21	5.21	5.11	5.31	0.00
Aroclor-1260-1	(1)	6.25	6.25	6.15	6.35	0.00
Aroclor-1260-2	(2)	6.44	6.44	6.34	6.54	0.00
Aroclor-1260-3	(3)	6.81	6.81	6.71	6.91	0.01
Aroclor-1260-4	(4)	7.06	7.07	6.97	7.17	0.01
Aroclor-1260-5	(5)	7.31	7.31	7.21	7.41	0.00
Tetrachloro-m-xylene		3.67	3.67	3.57	3.77	0.00
Decachlorobiphenyl		8.70	8.70	8.60	8.80	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

Continuing Calib Date: 07/10/2025 **Initial Calibration Date(s):** 07/08/2025 07/08/2025

Continuing Calib Time: 17:18 **Initial Calibration Time(s):** 14:06 22:16

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.74	4.76	4.66	4.86	0.02
Aroclor-1016-2	(2)	4.76	4.78	4.68	4.88	0.02
Aroclor-1016-3	(3)	4.93	4.95	4.85	5.05	0.02
Aroclor-1016-4	(4)	4.98	5.00	4.90	5.10	0.02
Aroclor-1016-5	(5)	5.19	5.21	5.11	5.31	0.02
Aroclor-1260-1	(1)	6.22	6.24	6.14	6.34	0.02
Aroclor-1260-2	(2)	6.41	6.43	6.33	6.53	0.02
Aroclor-1260-3	(3)	6.56	6.58	6.48	6.68	0.02
Aroclor-1260-4	(4)	7.03	7.05	6.95	7.15	0.02
Aroclor-1260-5	(5)	7.27	7.29	7.19	7.39	0.02
Tetrachloro-m-xylene		3.66	3.68	3.58	3.78	0.02
Decachlorobiphenyl		8.65	8.67	8.57	8.77	0.02

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 07/08/2025 07/08/2025

Client Sample No.: CCAL02 **Date Analyzed:** 07/10/2025

Lab Sample No.: AR1660CCC500 **Data File :** PO112196.D **Time Analyzed:** 17:18

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.759	4.661	4.861	560.040	500.000	12.0
Aroclor-1016-2	4.777	4.680	4.880	560.420	500.000	12.1
Aroclor-1016-3	4.834	4.736	4.936	543.320	500.000	8.7
Aroclor-1016-4	4.954	4.856	5.056	558.410	500.000	11.7
Aroclor-1016-5	5.212	5.113	5.313	536.860	500.000	7.4
Aroclor-1260-1	6.249	6.151	6.351	475.630	500.000	-4.9
Aroclor-1260-2	6.439	6.341	6.541	413.920	500.000	-17.2
Aroclor-1260-3	6.805	6.707	6.907	406.480	500.000	-18.7
Aroclor-1260-4	7.064	6.967	7.167	472.020	500.000	-5.6
Aroclor-1260-5	7.308	7.209	7.409	430.670	500.000	-13.9
Decachlorobiphenyl	8.701	8.603	8.803	38.770	50.000	-22.5
Tetrachloro-m-xylene	3.672	3.573	3.773	59.100	50.000	18.2

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 07/08/2025 07/08/2025

Client Sample No.: CCAL02 **Date Analyzed:** 07/10/2025

Lab Sample No.: AR1660CCC500 **Data File :** PO112196.D **Time Analyzed:** 17:18

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.740	4.661	4.861	537.020	500.000	7.4
Aroclor-1016-2	4.759	4.679	4.879	515.100	500.000	3.0
Aroclor-1016-3	4.934	4.854	5.054	531.360	500.000	6.3
Aroclor-1016-4	4.977	4.897	5.097	515.570	500.000	3.1
Aroclor-1016-5	5.188	5.109	5.309	554.910	500.000	11.0
Aroclor-1260-1	6.218	6.138	6.338	462.920	500.000	-7.4
Aroclor-1260-2	6.406	6.326	6.526	459.680	500.000	-8.1
Aroclor-1260-3	6.558	6.478	6.678	452.360	500.000	-9.5
Aroclor-1260-4	7.027	6.948	7.148	420.160	500.000	-16.0
Aroclor-1260-5	7.269	7.190	7.390	432.610	500.000	-13.5
Decachlorobiphenyl	8.648	8.568	8.768	44.850	50.000	-10.3
Tetrachloro-m-xylene	3.664	3.584	3.784	56.840	50.000	13.7

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

Continuing Calib Date: 07/10/2025 **Initial Calibration Date(s):** 07/07/2025 07/08/2025

Continuing Calib Time: 09:22 **Initial Calibration Time(s):** 21:03 04:24

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	5.64	5.64	5.54	5.74	0.00
Aroclor-1016-2	(2)	5.66	5.66	5.56	5.76	0.00
Aroclor-1016-3	(3)	5.72	5.72	5.62	5.82	0.00
Aroclor-1016-4	(4)	5.82	5.82	5.72	5.92	0.00
Aroclor-1016-5	(5)	6.11	6.11	6.01	6.21	0.00
Aroclor-1260-1	(1)	7.23	7.23	7.13	7.33	0.00
Aroclor-1260-2	(2)	7.48	7.48	7.38	7.58	0.00
Aroclor-1260-3	(3)	7.84	7.84	7.74	7.94	0.00
Aroclor-1260-4	(4)	8.06	8.06	7.96	8.16	0.00
Aroclor-1260-5	(5)	8.38	8.38	8.28	8.48	0.00
Tetrachloro-m-xylene		4.49	4.49	4.39	4.59	0.00
Decachlorobiphenyl		10.17	10.18	10.08	10.28	0.01

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

Continuing Calib Date: 07/10/2025 **Initial Calibration Date(s):** 07/07/2025 07/08/2025

Continuing Calib Time: 09:22 **Initial Calibration Time(s):** 21:03 04:24

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.86	4.86	4.76	4.96	0.00
Aroclor-1016-2	(2)	4.87	4.88	4.78	4.98	0.01
Aroclor-1016-3	(3)	5.05	5.05	4.95	5.15	0.00
Aroclor-1016-4	(4)	5.09	5.09	4.99	5.19	0.00
Aroclor-1016-5	(5)	5.31	5.31	5.21	5.41	0.01
Aroclor-1260-1	(1)	6.34	6.34	6.24	6.44	0.00
Aroclor-1260-2	(2)	6.52	6.53	6.43	6.63	0.01
Aroclor-1260-3	(3)	6.68	6.68	6.58	6.78	0.00
Aroclor-1260-4	(4)	7.14	7.15	7.05	7.25	0.01
Aroclor-1260-5	(5)	7.39	7.39	7.29	7.49	0.00
Tetrachloro-m-xylene		3.78	3.78	3.68	3.88	0.00
Decachlorobiphenyl		8.78	8.78	8.68	8.88	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 07/07/2025 07/07/2025

Client Sample No.: CCAL03 **Date Analyzed:** 07/10/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP073691.D **Time Analyzed:** 09:22

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.638	5.539	5.739	472.060	500.000	-5.6
Aroclor-1016-2	5.659	5.560	5.760	493.380	500.000	-1.3
Aroclor-1016-3	5.721	5.622	5.822	489.480	500.000	-2.1
Aroclor-1016-4	5.819	5.720	5.920	499.970	500.000	0.0
Aroclor-1016-5	6.111	6.012	6.212	522.700	500.000	4.5
Aroclor-1260-1	7.228	7.129	7.329	491.200	500.000	-1.8
Aroclor-1260-2	7.481	7.383	7.583	421.210	500.000	-15.8
Aroclor-1260-3	7.839	7.740	7.940	468.730	500.000	-6.3
Aroclor-1260-4	8.063	7.964	8.164	484.890	500.000	-3.0
Aroclor-1260-5	8.380	8.283	8.483	477.770	500.000	-4.4
Decachlorobiphenyl	10.174	10.076	10.276	50.150	50.000	0.3
Tetrachloro-m-xylene	4.488	4.388	4.588	50.060	50.000	0.1

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 07/07/2025 07/07/2025

Client Sample No.: CCAL03 **Date Analyzed:** 07/10/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP073691.D **Time Analyzed:** 09:22

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.856	4.758	4.958	502.710	500.000	0.5
Aroclor-1016-2	4.873	4.775	4.975	500.290	500.000	0.1
Aroclor-1016-3	5.050	4.951	5.151	509.040	500.000	1.8
Aroclor-1016-4	5.091	4.993	5.193	505.520	500.000	1.1
Aroclor-1016-5	5.305	5.207	5.407	528.100	500.000	5.6
Aroclor-1260-1	6.335	6.237	6.437	522.390	500.000	4.5
Aroclor-1260-2	6.524	6.425	6.625	534.750	500.000	7.0
Aroclor-1260-3	6.675	6.577	6.777	521.300	500.000	4.3
Aroclor-1260-4	7.144	7.046	7.246	532.670	500.000	6.5
Aroclor-1260-5	7.386	7.289	7.489	525.960	500.000	5.2
Decachlorobiphenyl	8.777	8.680	8.880	57.890	50.000	15.8
Tetrachloro-m-xylene	3.778	3.678	3.878	50.320	50.000	0.6

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

Continuing Calib Date: 07/10/2025 **Initial Calibration Date(s):** 07/07/2025 07/08/2025

Continuing Calib Time: 15:50 **Initial Calibration Time(s):** 21:03 04:24

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	5.64	5.64	5.54	5.74	0.00
Aroclor-1016-2	(2)	5.66	5.66	5.56	5.76	0.00
Aroclor-1016-3	(3)	5.72	5.72	5.62	5.82	0.00
Aroclor-1016-4	(4)	5.82	5.82	5.72	5.92	0.00
Aroclor-1016-5	(5)	6.11	6.11	6.01	6.21	0.00
Aroclor-1260-1	(1)	7.23	7.23	7.13	7.33	0.00
Aroclor-1260-2	(2)	7.48	7.48	7.38	7.58	0.00
Aroclor-1260-3	(3)	7.84	7.84	7.74	7.94	0.00
Aroclor-1260-4	(4)	8.06	8.06	7.96	8.16	0.00
Aroclor-1260-5	(5)	8.38	8.38	8.28	8.48	0.00
Tetrachloro-m-xylene		4.49	4.49	4.39	4.59	0.00
Decachlorobiphenyl		10.17	10.18	10.08	10.28	0.01

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

Continuing Calib Date: 07/10/2025 **Initial Calibration Date(s):** 07/07/2025 07/08/2025

Continuing Calib Time: 15:50 **Initial Calibration Time(s):** 21:03 04:24

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	4.86	4.86	4.76	4.96	0.00
Aroclor-1016-2	(2)	4.87	4.88	4.78	4.98	0.01
Aroclor-1016-3	(3)	5.05	5.05	4.95	5.15	0.00
Aroclor-1016-4	(4)	5.09	5.09	4.99	5.19	0.00
Aroclor-1016-5	(5)	5.31	5.31	5.21	5.41	0.00
Aroclor-1260-1	(1)	6.34	6.34	6.24	6.44	0.00
Aroclor-1260-2	(2)	6.52	6.53	6.43	6.63	0.01
Aroclor-1260-3	(3)	6.68	6.68	6.58	6.78	0.00
Aroclor-1260-4	(4)	7.15	7.15	7.05	7.25	0.01
Aroclor-1260-5	(5)	7.39	7.39	7.29	7.49	0.00
Tetrachloro-m-xylene		3.78	3.78	3.68	3.88	0.00
Decachlorobiphenyl		8.78	8.78	8.68	8.88	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 07/07/2025 07/07/2025

Client Sample No.: CCAL04 **Date Analyzed:** 07/10/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP073705.D **Time Analyzed:** 15:50

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.638	5.539	5.739	457.300	500.000	-8.5
Aroclor-1016-2	5.660	5.560	5.760	473.030	500.000	-5.4
Aroclor-1016-3	5.722	5.622	5.822	477.830	500.000	-4.4
Aroclor-1016-4	5.819	5.720	5.920	490.940	500.000	-1.8
Aroclor-1016-5	6.111	6.012	6.212	498.030	500.000	-0.4
Aroclor-1260-1	7.228	7.129	7.329	457.580	500.000	-8.5
Aroclor-1260-2	7.482	7.383	7.583	396.380	500.000	-20.7
Aroclor-1260-3	7.840	7.740	7.940	442.240	500.000	-11.6
Aroclor-1260-4	8.063	7.964	8.164	447.850	500.000	-10.4
Aroclor-1260-5	8.381	8.283	8.483	458.600	500.000	-8.3
Decachlorobiphenyl	10.174	10.076	10.276	47.000	50.000	-6.0
Tetrachloro-m-xylene	4.488	4.388	4.588	50.640	50.000	1.3

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 07/07/2025 07/07/2025

Client Sample No.: CCAL04 **Date Analyzed:** 07/10/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP073705.D **Time Analyzed:** 15:50

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.856	4.758	4.958	511.240	500.000	2.2
Aroclor-1016-2	4.874	4.775	4.975	511.870	500.000	2.4
Aroclor-1016-3	5.051	4.951	5.151	514.240	500.000	2.8
Aroclor-1016-4	5.092	4.993	5.193	508.640	500.000	1.7
Aroclor-1016-5	5.306	5.207	5.407	555.300	500.000	11.1
Aroclor-1260-1	6.335	6.237	6.437	473.360	500.000	-5.3
Aroclor-1260-2	6.524	6.425	6.625	481.990	500.000	-3.6
Aroclor-1260-3	6.676	6.577	6.777	455.070	500.000	-9.0
Aroclor-1260-4	7.145	7.046	7.246	462.000	500.000	-7.6
Aroclor-1260-5	7.387	7.289	7.489	457.020	500.000	-8.6
Decachlorobiphenyl	8.778	8.680	8.880	50.480	50.000	1.0
Tetrachloro-m-xylene	3.778	3.678	3.878	51.390	50.000	2.8

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Analytical Sequence

Client: CDM Smith **SDG No.:** Q2543

Project: South River WM Replacement **Instrument ID:** ECD_O

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 07/08/2025 07/08/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

CLIENT ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	07/08/2025	13:49	PO112087.D	8.70	3.67
AR1660ICC1000	AR1660ICC1000	07/08/2025	14:06	PO112088.D	8.70	3.67
AR1660ICC750	AR1660ICC750	07/08/2025	14:25	PO112089.D	8.70	3.67
AR1660ICC500	AR1660ICC500	07/08/2025	14:43	PO112090.D	8.70	3.67
AR1660ICC250	AR1660ICC250	07/08/2025	15:02	PO112091.D	8.70	3.67
AR1660ICC050	AR1660ICC050	07/08/2025	15:21	PO112092.D	8.70	3.67
AR1221ICC500	AR1221ICC500	07/08/2025	15:38	PO112093.D	8.70	3.67
AR1232ICC500	AR1232ICC500	07/08/2025	15:57	PO112094.D	8.70	3.67
AR1242ICC1000	AR1242ICC1000	07/08/2025	16:15	PO112095.D	8.70	3.67
AR1242ICC750	AR1242ICC750	07/08/2025	16:34	PO112096.D	8.70	3.67
AR1242ICC500	AR1242ICC500	07/08/2025	16:52	PO112097.D	8.70	3.67
AR1242ICC250	AR1242ICC250	07/08/2025	17:11	PO112098.D	8.70	3.67
AR1242ICC050	AR1242ICC050	07/08/2025	17:29	PO112099.D	8.70	3.67
AR1248ICC1000	AR1248ICC1000	07/08/2025	17:48	PO112100.D	8.70	3.67
AR1248ICC750	AR1248ICC750	07/08/2025	18:05	PO112101.D	8.70	3.67
AR1248ICC500	AR1248ICC500	07/08/2025	18:24	PO112102.D	8.70	3.67
AR1248ICC250	AR1248ICC250	07/08/2025	18:41	PO112103.D	8.70	3.67
AR1248ICC050	AR1248ICC050	07/08/2025	18:59	PO112104.D	8.70	3.67
AR1254ICC1000	AR1254ICC1000	07/08/2025	19:18	PO112105.D	8.70	3.67
AR1254ICC750	AR1254ICC750	07/08/2025	19:35	PO112106.D	8.70	3.67
AR1254ICC500	AR1254ICC500	07/08/2025	19:54	PO112107.D	8.70	3.67
AR1254ICC250	AR1254ICC250	07/08/2025	20:11	PO112108.D	8.70	3.67
AR1254ICC050	AR1254ICC050	07/08/2025	20:28	PO112109.D	8.70	3.67
AR1262ICC500	AR1262ICC500	07/08/2025	20:47	PO112110.D	8.70	3.67
AR1268ICC1000	AR1268ICC1000	07/08/2025	21:04	PO112111.D	8.70	3.67
AR1268ICC750	AR1268ICC750	07/08/2025	21:22	PO112112.D	8.70	3.67
AR1268ICC500	AR1268ICC500	07/08/2025	21:39	PO112113.D	8.70	3.67
AR1268ICC250	AR1268ICC250	07/08/2025	21:57	PO112114.D	8.70	3.67
AR1268ICC050	AR1268ICC050	07/08/2025	22:16	PO112115.D	8.70	3.67
AR1660CCC500	AR1660CCC500	07/10/2025	09:55	PO112181.D	8.70	3.67
I.BLK	I.BLK	07/10/2025	11:08	PO112185.D	8.70	3.67
TP-41	Q2543-01	07/10/2025	14:40	PO112190.D	8.70	3.67
TP-49	Q2543-02	07/10/2025	14:58	PO112191.D	8.70	3.67
TP-23	Q2543-03	07/10/2025	15:15	PO112192.D	8.70	3.67
TP-23-99	Q2543-04	07/10/2025	15:32	PO112193.D	8.70	3.67
AR1660CCC500	AR1660CCC500	07/10/2025	17:18	PO112196.D	8.70	3.67
I.BLK	I.BLK	07/10/2025	19:05	PO112200.D	8.70	3.67
I.BLK	I.BLK	07/07/2025	20:30	PP073553.D	10.18	4.49
AR1660ICC1000	AR1660ICC1000	07/07/2025	21:03	PP073554.D	10.18	4.49
AR1660ICC750	AR1660ICC750	07/07/2025	21:19	PP073555.D	10.18	4.49
AR1660ICC500	AR1660ICC500	07/07/2025	21:35	PP073556.D	10.18	4.49
AR1660ICC250	AR1660ICC250	07/07/2025	21:52	PP073557.D	10.18	4.49

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Analytical Sequence

AR1660ICC050	AR1660ICC050	07/07/2025	22:08	PP073558.D	10.17	4.49
AR1221ICC500	AR1221ICC500	07/07/2025	22:24	PP073559.D	10.18	4.49
AR1232ICC500	AR1232ICC500	07/07/2025	22:41	PP073560.D	10.18	4.49
AR1242ICC1000	AR1242ICC1000	07/07/2025	22:57	PP073561.D	10.18	4.49
AR1242ICC750	AR1242ICC750	07/07/2025	23:14	PP073562.D	10.18	4.49
AR1242ICC500	AR1242ICC500	07/07/2025	23:30	PP073563.D	10.17	4.49
AR1242ICC250	AR1242ICC250	07/07/2025	23:46	PP073564.D	10.18	4.49
AR1242ICC050	AR1242ICC050	07/08/2025	00:03	PP073565.D	10.17	4.49
AR1248ICC1000	AR1248ICC1000	07/08/2025	00:19	PP073566.D	10.18	4.49
AR1248ICC750	AR1248ICC750	07/08/2025	00:35	PP073567.D	10.18	4.49
AR1248ICC500	AR1248ICC500	07/08/2025	00:52	PP073568.D	10.17	4.49
AR1248ICC250	AR1248ICC250	07/08/2025	01:08	PP073569.D	10.18	4.49
AR1248ICC050	AR1248ICC050	07/08/2025	01:25	PP073570.D	10.17	4.49
AR1254ICC1000	AR1254ICC1000	07/08/2025	01:41	PP073571.D	10.18	4.49
AR1254ICC750	AR1254ICC750	07/08/2025	01:57	PP073572.D	10.18	4.49
AR1254ICC500	AR1254ICC500	07/08/2025	02:14	PP073573.D	10.17	4.49
AR1254ICC250	AR1254ICC250	07/08/2025	02:30	PP073574.D	10.18	4.49
AR1254ICC050	AR1254ICC050	07/08/2025	02:46	PP073575.D	10.18	4.49
AR1262ICC500	AR1262ICC500	07/08/2025	03:03	PP073576.D	10.18	4.49
AR1268ICC1000	AR1268ICC1000	07/08/2025	03:19	PP073577.D	10.18	4.49
AR1268ICC750	AR1268ICC750	07/08/2025	03:35	PP073578.D	10.18	4.49
AR1268ICC500	AR1268ICC500	07/08/2025	03:52	PP073579.D	10.18	4.49
AR1268ICC250	AR1268ICC250	07/08/2025	04:08	PP073580.D	10.17	4.49
AR1268ICC050	AR1268ICC050	07/08/2025	04:24	PP073581.D	10.18	4.49
AR1660CCC500	AR1660CCC500	07/10/2025	09:22	PP073691.D	10.17	4.49
I.BLK	I.BLK	07/10/2025	10:29	PP073695.D	10.17	4.49
PB168783BL	PB168783BL	07/10/2025	13:39	PP073700.D	10.17	4.49
PB168783BS	PB168783BS	07/10/2025	13:55	PP073701.D	10.17	4.48
TR-04-07092025MS	Q2537-01MS	07/10/2025	14:28	PP073703.D	10.17	4.48
TR-04-07092025MSD	Q2537-01MSD	07/10/2025	14:45	PP073704.D	10.17	4.49
AR1660CCC500	AR1660CCC500	07/10/2025	15:50	PP073705.D	10.17	4.49
I.BLK	I.BLK	07/10/2025	16:56	PP073709.D	10.17	4.49

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Analytical Sequence

Client: CDM Smith **SDG No.:** Q2543

Project: South River WM Replacement **Instrument ID:** ECD_O

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 07/08/2025 07/08/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

CLIENT ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	07/08/2025	13:49	PO112087.D	8.65	3.67
AR1660ICC1000	AR1660ICC1000	07/08/2025	14:06	PO112088.D	8.65	3.67
AR1660ICC750	AR1660ICC750	07/08/2025	14:25	PO112089.D	8.65	3.67
AR1660ICC500	AR1660ICC500	07/08/2025	14:43	PO112090.D	8.67	3.68
AR1660ICC250	AR1660ICC250	07/08/2025	15:02	PO112091.D	8.65	3.67
AR1660ICC050	AR1660ICC050	07/08/2025	15:21	PO112092.D	8.65	3.67
AR1221ICC500	AR1221ICC500	07/08/2025	15:38	PO112093.D	8.65	3.67
AR1232ICC500	AR1232ICC500	07/08/2025	15:57	PO112094.D	8.65	3.67
AR1242ICC1000	AR1242ICC1000	07/08/2025	16:15	PO112095.D	8.65	3.67
AR1242ICC750	AR1242ICC750	07/08/2025	16:34	PO112096.D	8.65	3.67
AR1242ICC500	AR1242ICC500	07/08/2025	16:52	PO112097.D	8.65	3.67
AR1242ICC250	AR1242ICC250	07/08/2025	17:11	PO112098.D	8.65	3.67
AR1242ICC050	AR1242ICC050	07/08/2025	17:29	PO112099.D	8.65	3.67
AR1248ICC1000	AR1248ICC1000	07/08/2025	17:48	PO112100.D	8.65	3.67
AR1248ICC750	AR1248ICC750	07/08/2025	18:05	PO112101.D	8.65	3.67
AR1248ICC500	AR1248ICC500	07/08/2025	18:24	PO112102.D	8.65	3.67
AR1248ICC250	AR1248ICC250	07/08/2025	18:41	PO112103.D	8.65	3.67
AR1248ICC050	AR1248ICC050	07/08/2025	18:59	PO112104.D	8.65	3.67
AR1254ICC1000	AR1254ICC1000	07/08/2025	19:18	PO112105.D	8.65	3.67
AR1254ICC750	AR1254ICC750	07/08/2025	19:35	PO112106.D	8.65	3.67
AR1254ICC500	AR1254ICC500	07/08/2025	19:54	PO112107.D	8.65	3.67
AR1254ICC250	AR1254ICC250	07/08/2025	20:11	PO112108.D	8.65	3.67
AR1254ICC050	AR1254ICC050	07/08/2025	20:28	PO112109.D	8.65	3.67
AR1262ICC500	AR1262ICC500	07/08/2025	20:47	PO112110.D	8.65	3.67
AR1268ICC1000	AR1268ICC1000	07/08/2025	21:04	PO112111.D	8.65	3.67
AR1268ICC750	AR1268ICC750	07/08/2025	21:22	PO112112.D	8.65	3.67
AR1268ICC500	AR1268ICC500	07/08/2025	21:39	PO112113.D	8.65	3.67
AR1268ICC250	AR1268ICC250	07/08/2025	21:57	PO112114.D	8.65	3.67
AR1268ICC050	AR1268ICC050	07/08/2025	22:16	PO112115.D	8.65	3.67
AR1660CCC500	AR1660CCC500	07/10/2025	09:55	PO112181.D	8.65	3.67
I.BLK	I.BLK	07/10/2025	11:08	PO112185.D	8.65	3.67
TP-41	Q2543-01	07/10/2025	14:40	PO112190.D	8.65	3.66
TP-49	Q2543-02	07/10/2025	14:58	PO112191.D	8.65	3.67
TP-23	Q2543-03	07/10/2025	15:15	PO112192.D	8.65	3.67
TP-23-99	Q2543-04	07/10/2025	15:32	PO112193.D	8.65	3.67
AR1660CCC500	AR1660CCC500	07/10/2025	17:18	PO112196.D	8.65	3.66
I.BLK	I.BLK	07/10/2025	19:05	PO112200.D	8.65	3.67
I.BLK	I.BLK	07/07/2025	20:30	PP073553.D	8.78	3.78
AR1660ICC1000	AR1660ICC1000	07/07/2025	21:03	PP073554.D	8.78	3.78
AR1660ICC750	AR1660ICC750	07/07/2025	21:19	PP073555.D	8.78	3.78
AR1660ICC500	AR1660ICC500	07/07/2025	21:35	PP073556.D	8.78	3.78
AR1660ICC250	AR1660ICC250	07/07/2025	21:52	PP073557.D	8.78	3.78

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Analytical Sequence

AR1660ICC050	AR1660ICC050	07/07/2025	22:08	PP073558.D	8.78	3.78
AR1221ICC500	AR1221ICC500	07/07/2025	22:24	PP073559.D	8.78	3.78
AR1232ICC500	AR1232ICC500	07/07/2025	22:41	PP073560.D	8.78	3.78
AR1242ICC1000	AR1242ICC1000	07/07/2025	22:57	PP073561.D	8.78	3.78
AR1242ICC750	AR1242ICC750	07/07/2025	23:14	PP073562.D	8.78	3.78
AR1242ICC500	AR1242ICC500	07/07/2025	23:30	PP073563.D	8.78	3.78
AR1242ICC250	AR1242ICC250	07/07/2025	23:46	PP073564.D	8.78	3.78
AR1242ICC050	AR1242ICC050	07/08/2025	00:03	PP073565.D	8.78	3.78
AR1248ICC1000	AR1248ICC1000	07/08/2025	00:19	PP073566.D	8.78	3.78
AR1248ICC750	AR1248ICC750	07/08/2025	00:35	PP073567.D	8.78	3.78
AR1248ICC500	AR1248ICC500	07/08/2025	00:52	PP073568.D	8.78	3.78
AR1248ICC250	AR1248ICC250	07/08/2025	01:08	PP073569.D	8.78	3.78
AR1248ICC050	AR1248ICC050	07/08/2025	01:25	PP073570.D	8.78	3.78
AR1254ICC1000	AR1254ICC1000	07/08/2025	01:41	PP073571.D	8.78	3.78
AR1254ICC750	AR1254ICC750	07/08/2025	01:57	PP073572.D	8.78	3.78
AR1254ICC500	AR1254ICC500	07/08/2025	02:14	PP073573.D	8.78	3.78
AR1254ICC250	AR1254ICC250	07/08/2025	02:30	PP073574.D	8.78	3.78
AR1254ICC050	AR1254ICC050	07/08/2025	02:46	PP073575.D	8.78	3.78
AR1262ICC500	AR1262ICC500	07/08/2025	03:03	PP073576.D	8.78	3.78
AR1268ICC1000	AR1268ICC1000	07/08/2025	03:19	PP073577.D	8.78	3.78
AR1268ICC750	AR1268ICC750	07/08/2025	03:35	PP073578.D	8.78	3.78
AR1268ICC500	AR1268ICC500	07/08/2025	03:52	PP073579.D	8.78	3.78
AR1268ICC250	AR1268ICC250	07/08/2025	04:08	PP073580.D	8.78	3.78
AR1268ICC050	AR1268ICC050	07/08/2025	04:24	PP073581.D	8.78	3.78
AR1660CCC500	AR1660CCC500	07/10/2025	09:22	PP073691.D	8.78	3.78
I.BLK	I.BLK	07/10/2025	10:29	PP073695.D	8.78	3.78
PB168783BL	PB168783BL	07/10/2025	13:39	PP073700.D	8.78	3.78
PB168783BS	PB168783BS	07/10/2025	13:55	PP073701.D	8.78	3.78
TR-04-07092025MS	Q2537-01MS	07/10/2025	14:28	PP073703.D	8.78	3.78
TR-04-07092025MSD	Q2537-01MSD	07/10/2025	14:45	PP073704.D	8.78	3.78
AR1660CCC500	AR1660CCC500	07/10/2025	15:50	PP073705.D	8.78	3.78
I.BLK	I.BLK	07/10/2025	16:56	PP073709.D	8.78	3.78

QC SAMPLE DATA

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168783BL	SDG No.:	Q2543
Lab Sample ID:	PB168783BL	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP073700.D	1	07/10/25 08:35	07/10/25 13:39	PB168783

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	3.90	U	3.90	17.0	ug/kg
11104-28-2	Aroclor-1221	4.00	U	4.00	17.0	ug/kg
11141-16-5	Aroclor-1232	3.70	U	3.70	17.0	ug/kg
53469-21-9	Aroclor-1242	4.00	U	4.00	17.0	ug/kg
12672-29-6	Aroclor-1248	5.90	U	5.90	17.0	ug/kg
11097-69-1	Aroclor-1254	3.20	U	3.20	17.0	ug/kg
37324-23-5	Aroclor-1262	5.00	U	5.00	17.0	ug/kg
11100-14-4	Aroclor-1268	3.60	U	3.60	17.0	ug/kg
11096-82-5	Aroclor-1260	3.20	U	3.20	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.5		32 - 144	98%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.9		32 - 175	104%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	PIBLK-PO112087.D	SDG No.:	Q2543
Lab Sample ID:	I.BLK-PO112087.D	Matrix:	WATER
Analytical Method:	8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO112087.D	1		07/08/25	po070825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.4		60 - 140	97%	SPK: 20
2051-24-3	Decachlorobiphenyl	18.8		60 - 140	94%	SPK: 20

Comments:

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Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	07/10/25
Project:	South River WM Replacement	Date Received:	07/10/25
Client Sample ID:	PIBLK-PO112185.D	SDG No.:	Q2543
Lab Sample ID:	I.BLK-PO112185.D	Matrix:	WATER
Analytical Method:	8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO112185.D	1		07/10/25	PO071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	17.0		60 - 140	85%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.3		60 - 140	97%	SPK: 20

Comments:

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LOD = Limit of Detection
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P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	07/10/25
Project:	South River WM Replacement	Date Received:	07/10/25
Client Sample ID:	PIBLK-PO112200.D	SDG No.:	Q2543
Lab Sample ID:	I.BLK-PO112200.D	Matrix:	WATER
Analytical Method:	8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO112200.D	1		07/10/25	po071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	17.3		60 - 140	87%	SPK: 20
2051-24-3	Decachlorobiphenyl	15.6		60 - 140	78%	SPK: 20

Comments:

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Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
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D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/07/25
Client Sample ID:	PIBLK-PP073553.D	SDG No.:	Q2543
Lab Sample ID:	I.BLK-PP073553.D	Matrix:	WATER
Analytical Method:	8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP073553.D	1		07/07/25	pp070825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	16.2		60 - 140	81%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.1		60 - 140	85%	SPK: 20

Comments:

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() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/10/25
Project:	South River WM Replacement	Date Received:	07/10/25
Client Sample ID:	PIBLK-PP073695.D	SDG No.:	Q2543
Lab Sample ID:	I.BLK-PP073695.D	Matrix:	WATER
Analytical Method:	8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP073695.D	1		07/10/25	PP071125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.3		60 - 140	91%	SPK: 20
2051-24-3	Decachlorobiphenyl	18.4		60 - 140	92%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
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D = Dilution
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Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	07/10/25
Project:	South River WM Replacement	Date Received:	07/10/25
Client Sample ID:	PIBLK-PP073709.D	SDG No.:	Q2543
Lab Sample ID:	I.BLK-PP073709.D	Matrix:	WATER
Analytical Method:	8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP073709.D	1		07/10/25	pp071125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.5		60 - 140	93%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.6		60 - 140	88%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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P = Indicates >25% difference for detected concentrations between the two GC columns
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M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168783BS	SDG No.:	Q2543
Lab Sample ID:	PB168783BS	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP073701.D	1	07/10/25 08:35	07/10/25 13:55	PB168783

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	157		3.90	17.0	ug/kg
11104-28-2	Aroclor-1221	4.00	U	4.00	17.0	ug/kg
11141-16-5	Aroclor-1232	3.70	U	3.70	17.0	ug/kg
53469-21-9	Aroclor-1242	4.00	U	4.00	17.0	ug/kg
12672-29-6	Aroclor-1248	5.90	U	5.90	17.0	ug/kg
11097-69-1	Aroclor-1254	3.20	U	3.20	17.0	ug/kg
37324-23-5	Aroclor-1262	5.00	U	5.00	17.0	ug/kg
11100-14-4	Aroclor-1268	3.60	U	3.60	17.0	ug/kg
11096-82-5	Aroclor-1260	157		3.20	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.5		32 - 144	97%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.4		32 - 175	112%	SPK: 20

Comments:

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TR-04-07092025MS	SDG No.:	Q2543
Lab Sample ID:	Q2537-01MS	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	90.5 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP073703.D	1	07/10/25 08:35	07/10/25 14:28	PB168783

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	130		4.40	18.8	ug/kg
11104-28-2	Aroclor-1221	4.50	U	4.50	18.8	ug/kg
11141-16-5	Aroclor-1232	4.10	U	4.10	18.8	ug/kg
53469-21-9	Aroclor-1242	4.40	U	4.40	18.8	ug/kg
12672-29-6	Aroclor-1248	6.50	U	6.50	18.8	ug/kg
11097-69-1	Aroclor-1254	67.8		3.50	18.8	ug/kg
37324-23-5	Aroclor-1262	5.50	U	5.50	18.8	ug/kg
11100-14-4	Aroclor-1268	4.00	U	4.00	18.8	ug/kg
11096-82-5	Aroclor-1260	118		3.60	18.8	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	15.3		32 - 144	76%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.3		32 - 175	81%	SPK: 20

Comments:

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TR-04-07092025MSD	SDG No.:	Q2543
Lab Sample ID:	Q2537-01MSD	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	90.5 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP073704.D	1	07/10/25 08:35	07/10/25 14:45	PB168783

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	137		4.40	18.8	ug/kg
11104-28-2	Aroclor-1221	4.40	U	4.40	18.8	ug/kg
11141-16-5	Aroclor-1232	4.10	U	4.10	18.8	ug/kg
53469-21-9	Aroclor-1242	4.40	U	4.40	18.8	ug/kg
12672-29-6	Aroclor-1248	6.50	U	6.50	18.8	ug/kg
11097-69-1	Aroclor-1254	71.6		3.50	18.8	ug/kg
37324-23-5	Aroclor-1262	5.50	U	5.50	18.8	ug/kg
11100-14-4	Aroclor-1268	4.00	U	4.00	18.8	ug/kg
11096-82-5	Aroclor-1260	125		3.60	18.8	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	15.3		32 - 144	77%	SPK: 20
2051-24-3	Decachlorobiphenyl	15.4		32 - 175	77%	SPK: 20

Comments:

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LAB CHRONICLE

OrderID:	Q2543	**OrderDate:**	7/9/2025 12:26:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	O42,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2543-01	**TP-41**	**SOIL**			**07/08/25**			**07/09/25**
			Diesel Range Organics	8015D		07/16/25	07/16/25	
			Gasoline Range Organics	8015D			07/10/25	
			Herbicide	8151A		07/11/25	07/18/25	
			PCB	8082A		07/10/25	07/10/25	
			Pesticide-TCL	8081B		07/10/25	07/10/25	
Q2543-02	**TP-49**	**SOIL**			**07/09/25**			**07/09/25**
			Diesel Range Organics	8015D		07/16/25	07/16/25	
			Gasoline Range Organics	8015D			07/10/25	
			Herbicide	8151A		07/11/25	07/18/25	
			PCB	8082A		07/10/25	07/10/25	
			Pesticide-TCL	8081B		07/10/25	07/10/25	
Q2543-03	**TP-23**	**SOIL**			**07/09/25**			**07/09/25**
			Diesel Range Organics	8015D		07/16/25	07/16/25	
			Gasoline Range Organics	8015D			07/10/25	
			Herbicide	8151A		07/11/25	07/18/25	
			PCB	8082A		07/10/25	07/10/25	
			Pesticide-TCL	8081B		07/10/25	07/10/25	
Q2543-04	**TP-23-99**	**SOIL**			**07/09/25**			**07/09/25**
			Diesel Range Organics	8015D		07/16/25	07/16/25	
			Gasoline Range Organics	8015D			07/10/25	
			Herbicide	8151A		07/11/25	07/18/25	
			PCB	8082A		07/10/25	07/10/25	
			Pesticide-TCL	8081B		07/10/25	07/10/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2543 **Order ID:** Q2543

Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

Client ID :

Total Concentration: **0.000**

SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-41	SDG No.:	Q2543
Lab Sample ID:	Q2543-01	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	82 Decanted:
Sample Wt/Vol:	30.07 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031147.D	1	07/11/25 08:50	07/18/25 22:34	PB168811

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	9.40	U	9.40	81.5	ug/Kg
120-36-5	DICHLORPROP	15.6	U	15.6	81.5	ug/Kg
94-75-7	2,4-D	11.0	U	11.0	81.5	ug/Kg
93-72-1	2,4,5-TP (Silvex)	11.0	U	11.0	81.5	ug/Kg
93-76-5	2,4,5-T	10.6	U	10.6	81.5	ug/Kg
94-82-6	2,4-DB	29.4	U	29.4	81.5	ug/Kg
88-85-7	DINOSEB	13.1	U	13.1	81.5	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	449		10 - 141	90%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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Alliance TECHNICAL GROUP
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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-49	SDG No.:	Q2543
Lab Sample ID:	Q2543-02	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	73.9 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031148.D	1	07/11/25 08:50	07/18/25 22:59	PB168811

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	10.5	U	10.5	90.6	ug/Kg
120-36-5	DICHLORPROP	17.3	U	17.3	90.6	ug/Kg
94-75-7	2,4-D	12.2	U	12.2	90.6	ug/Kg
93-72-1	2,4,5-TP (Silvex)	12.2	U	12.2	90.6	ug/Kg
93-76-5	2,4,5-T	11.8	U	11.8	90.6	ug/Kg
94-82-6	2,4-DB	32.7	U	32.7	90.6	ug/Kg
88-85-7	DINOSEB	14.6	U	14.6	90.6	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	377		10 - 141	75%	SPK: 500

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Alliance TECHNICAL GROUP
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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23	SDG No.:	Q2543
Lab Sample ID:	Q2543-03	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	85 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031149.D	1	07/11/25 08:50	07/18/25 23:23	PB168811

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	9.10	U	9.10	78.7	ug/Kg
120-36-5	DICHLORPROP	15.0	U	15.0	78.7	ug/Kg
94-75-7	2,4-D	10.6	U	10.6	78.7	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.6	U	10.6	78.7	ug/Kg
93-76-5	2,4,5-T	10.2	U	10.2	78.7	ug/Kg
94-82-6	2,4-DB	28.4	U	28.4	78.7	ug/Kg
88-85-7	DINOSEB	12.7	U	12.7	78.7	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	414		10 - 141	83%	SPK: 500

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Report of Analysis

Client:	CDM Smith		Date Collected:	07/09/25	
Project:	South River WM Replacement		Date Received:	07/09/25	
Client Sample ID:	TP-23-99		SDG No.:	Q2543	
Lab Sample ID:	Q2543-04		Matrix:	SOIL	
Analytical Method:	8151A		% Solid:	85.4	Decanted:
Sample Wt/Vol:	30.02	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Herbicide	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	8151A				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031150.D	1	07/11/25 08:50	07/18/25 23:47	PB168811

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	9.10	U	9.10	78.4	ug/Kg
120-36-5	DICHLORPROP	15.0	U	15.0	78.4	ug/Kg
94-75-7	2,4-D	10.6	U	10.6	78.4	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.6	U	10.6	78.4	ug/Kg
93-76-5	2,4,5-T	10.2	U	10.2	78.4	ug/Kg
94-82-6	2,4-DB	28.3	U	28.3	78.4	ug/Kg
88-85-7	DINOSEB	12.6	U	12.6	78.4	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	401		10 - 141	80%	SPK: 500

Comments:

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QC SUMMARY

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Surrogate Summary

SDG No.: Q2543

Client: CDM Smith

Analytical Method: 8151A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Recovery(%)	Qual	Limits(%) Low	Limits(%) High
I.BLK-PS031005.D	PIBLK-PS031005.D	2,4-DCAA	1	500	356	71		61	136
		2,4-DCAA	2	500	496	99		61	136
I.BLK-PS031021.D	PIBLK-PS031021.D	2,4-DCAA	1	500	459	92		61	136
		2,4-DCAA	2	500	490	98		61	136
PB168811BL	PB168811BL	2,4-DCAA	1	500	401	80		10	141
		2,4-DCAA	2	500	474	95		10	141
PB168811BS	PB168811BS	2,4-DCAA	1	500	517	103		10	141
		2,4-DCAA	2	500	456	91		10	141
I.BLK-PS031027.D	PIBLK-PS031027.D	2,4-DCAA	1	500	428	86		61	136
		2,4-DCAA	2	500	483	97		61	136
I.BLK-PS031143.D	PIBLK-PS031143.D	2,4-DCAA	1	500	473	95		61	136
		2,4-DCAA	2	500	506	101		61	136
Q2529-10MS	TP-30MS	2,4-DCAA	1	500	155	31		10	141
		2,4-DCAA	2	500	220	44		10	141
Q2529-10MSD	TP-30MSD	2,4-DCAA	1	500	180	36		10	141
		2,4-DCAA	2	500	257	51		10	141
Q2543-01	TP-41	2,4-DCAA	1	500	244	49		10	141
		2,4-DCAA	2	500	449	90		10	141
Q2543-02	TP-49	2,4-DCAA	1	500	268	54		10	141
		2,4-DCAA	2	500	377	75		10	141
Q2543-03	TP-23	2,4-DCAA	1	500	326	65		10	141
		2,4-DCAA	2	500	414	83		10	141
Q2543-04	TP-23-99	2,4-DCAA	1	500	326	65		10	141
		2,4-DCAA	2	500	401	80		10	141
I.BLK-PS031153.D	PIBLK-PS031153.D	2,4-DCAA	1	500	478	96		61	136
		2,4-DCAA	2	500	512	102		61	136

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2543 **Analytical Method:** 8151A

Client: CDM Smith **DataFile :** PS031145.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: **Q2529-10MS** **Client Sample ID:** **TP-30MS** **(Column 1)**											
DICAMBA	182.3	0	83.6	ug/Kg	46				10	112	
DICHLORPROP	182.3	0	84.5	ug/Kg	46				10	113	
2,4-D	182.3	0	179	ug/Kg	98				10	144	
2,4,5-TP(Silvex)	182.3	0	98.3	ug/Kg	54				10	114	
2,4,5-T	182.3	0	121	ug/Kg	66				10	115	
2,4-DB	182.3	0	30.0	ug/Kg	16				10	140	
Dinoseb	182.3	0	0	ug/Kg	0	*			10	118	
Lab Sample ID: **Q2529-10MS** **Client Sample ID:** **TP-30MS** **(Column 2)**											
DICAMBA	182.3	0	82.7	ug/Kg	45				10	112	
DICHLORPROP	182.3	0	90.6	ug/Kg	50				10	113	
2,4-D	182.3	0	152	ug/Kg	83				10	144	
2,4,5-TP(Silvex)	182.3	0	284	ug/Kg	156				10	114	
2,4,5-T	182.3	0	85.0	ug/Kg	47				10	115	
2,4-DB	182.3	0	29.1	ug/Kg	16				10	140	
Dinoseb	182.3	0	0	ug/Kg	0	*			10	118	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2543 **Analytical Method:** 8151A

Client: CDM Smith **DataFile :** PS031146.D

	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID:	**Q2529-10MSD (Column 1)**	**Client Sample ID:**		**TP-30MSD**								
	DICAMBA	182	0	98.6	ug/Kg	54		16		10	112	20
	DICHLORPROP	182	0	102	ug/Kg	56		20		10	113	20
	2,4-D	182	0	192	ug/Kg	105		7		10	144	20
	2,4,5-TP(Silvex)	182	0	117	ug/Kg	64		17		10	114	20
	2,4,5-T	182	0	143	ug/Kg	79		18		10	115	20
	2,4-DB	182	0	32.0	ug/Kg	18		12		10	140	20
	Dinoseb	182	0	0	ug/Kg	0	*	0		10	118	20
Lab Sample ID:	**Q2529-10MSD (Column 2)**	**Client Sample ID:**		**TP-30MSD**								
	DICAMBA	182	0	98.1	ug/Kg	54		18		10	112	20
	DICHLORPROP	182	0	107	ug/Kg	59		17		10	113	20
	2,4-D	182	0	164	ug/Kg	90		8		10	144	20
	2,4,5-TP(Silvex)	182	0	297	ug/Kg	163		4		10	114	20
	2,4,5-T	182	0	101	ug/Kg	55		16		10	115	20
	2,4-DB	182	0	29.0	ug/Kg	16		0		10	140	20
	Dinoseb	182	0	0	ug/Kg	0	*	0		10	118	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2543 **Analytical Method:** 8151A

Client: CDM Smith **Datafile :** PS031024.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168811BS (Column 1)	DICAMBA	166.6	156	ug/Kg	94				72	129	
	DICHLORPROP	166.6	161	ug/Kg	97				77	135	
	2,4-D	166.6	185	ug/Kg	111				65	144	
	2,4,5-TP(Silvex)	166.6	174	ug/Kg	104				74	146	
	2,4,5-T	166.6	185	ug/Kg	111				77	134	
	2,4-DB	166.6	193	ug/Kg	116				72	122	
	Dinoseb	166.6	173	ug/Kg	104				74	132	
PB168811BS (Column 2)	DICAMBA	166.6	143	ug/Kg	86				72	129	
	DICHLORPROP	166.6	143	ug/Kg	86				77	135	
	2,4-D	166.6	145	ug/Kg	87				65	144	
	2,4,5-TP(Silvex)	166.6	149	ug/Kg	89				74	146	
	2,4,5-T	166.6	149	ug/Kg	89				77	134	
	2,4-DB	166.6	146	ug/Kg	88				72	122	
	Dinoseb	166.6	144	ug/Kg	86				74	132	

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4C

PESTICIDE METHOD BLANK SUMMARY

Client ID: PB168811BL

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2543

Lab Sample ID: PB168811BL | Lab File ID: PS031023.D

Matrix: (soil/water) Solid | Extraction: (Type) SOXH

Sulfur Cleanup: (Y/N) N | Date Extracted: 07/11/2025

Date Analyzed (1): 07/14/2025 | Date Analyzed (2): 07/14/2025

Time Analyzed (1): 17:10 | Time Analyzed (2): 17:10

Instrument ID (1): ECD_S | Instrument ID (2): ECD_S

GC Column (1): RTX-CLP ID: 0.32 (mm) | GC Column (2): RTX-CLP2 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
PB168811BS	PB168811BS	PS031024.D	07/14/2025	07/14/2025
TP-30MS	Q2529-10MS	PS031145.D	07/18/2025	07/18/2025
TP-30MSD	Q2529-10MSD	PS031146.D	07/18/2025	07/18/2025
TP-41	Q2543-01	PS031147.D	07/18/2025	07/18/2025
TP-49	Q2543-02	PS031148.D	07/18/2025	07/18/2025
TP-23	Q2543-03	PS031149.D	07/18/2025	07/18/2025
TP-23-99	Q2543-04	PS031150.D	07/18/2025	07/18/2025

COMMENTS:

QC SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168811BL	SDG No.:	Q2543
Lab Sample ID:	PB168811BL	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031023.D	1	07/11/25 08:50	07/14/25 17:10	PB168811

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	7.70	U	7.70	67.0	ug/Kg
120-36-5	DICHLORPROP	12.8	U	12.8	67.0	ug/Kg
94-75-7	2,4-D	9.00	U	9.00	67.0	ug/Kg
93-72-1	2,4,5-TP (Silvex)	9.10	U	9.10	67.0	ug/Kg
93-76-5	2,4,5-T	8.70	U	8.70	67.0	ug/Kg
94-82-6	2,4-DB	24.2	U	24.2	67.0	ug/Kg
88-85-7	DINOSEB	10.8	U	10.8	67.0	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	474		10 - 141	95%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/11/25
Project:	South River WM Replacement	Date Received:	07/11/25
Client Sample ID:	PIBLK-PS031005.D	SDG No.:	Q2543
Lab Sample ID:	I.BLK-PS031005.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031005.D	1		07/11/25	PS071125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.65	U	0.65	2.00	ug/L
120-36-5	DICHLORPROP	0.76	U	0.76	2.00	ug/L
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
93-76-5	2,4,5-T	0.71	U	0.71	2.00	ug/L
94-82-6	2,4-DB	0.65	U	0.65	2.00	ug/L
88-85-7	DINOSEB	0.89	U	0.89	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	496		61 - 136	99%	SPK: 500

Comments:

U = Not Detected
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LOD = Limit of Detection
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Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/14/25
Project:	South River WM Replacement	Date Received:	07/14/25
Client Sample ID:	PIBLK-PS031021.D	SDG No.:	Q2543
Lab Sample ID:	I.BLK-PS031021.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031021.D	1		07/14/25	ps071425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.65	U	0.65	2.00	ug/L
120-36-5	DICHLORPROP	0.76	U	0.76	2.00	ug/L
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
93-76-5	2,4,5-T	0.71	U	0.71	2.00	ug/L
94-82-6	2,4-DB	0.65	U	0.65	2.00	ug/L
88-85-7	DINOSEB	0.89	U	0.89	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	490		61 - 136	98%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/14/25
Project:	South River WM Replacement	Date Received:	07/14/25
Client Sample ID:	PIBLK-PS031027.D	SDG No.:	Q2543
Lab Sample ID:	I.BLK-PS031027.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031027.D	1		07/14/25	ps071425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.65	U	0.65	2.00	ug/L
120-36-5	DICHLORPROP	0.76	U	0.76	2.00	ug/L
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
93-76-5	2,4,5-T	0.71	U	0.71	2.00	ug/L
94-82-6	2,4-DB	0.65	U	0.65	2.00	ug/L
88-85-7	DINOSEB	0.89	U	0.89	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	483		61 - 136	97%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/18/25
Project:	South River WM Replacement	Date Received:	07/18/25
Client Sample ID:	PIBLK-PS031143.D	SDG No.:	Q2543
Lab Sample ID:	I.BLK-PS031143.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031143.D	1		07/18/25	ps071825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.65	U	0.65	2.00	ug/L
120-36-5	DICHLORPROP	0.76	U	0.76	2.00	ug/L
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
93-76-5	2,4,5-T	0.71	U	0.71	2.00	ug/L
94-82-6	2,4-DB	0.65	U	0.65	2.00	ug/L
88-85-7	DINOSEB	0.89	U	0.89	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	506		61 - 136	101%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
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LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/19/25
Project:	South River WM Replacement	Date Received:	07/19/25
Client Sample ID:	PIBLK-PS031153.D	SDG No.:	Q2543
Lab Sample ID:	I.BLK-PS031153.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031153.D	1		07/19/25	ps071825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.65	U	0.65	2.00	ug/L
120-36-5	DICHLORPROP	0.76	U	0.76	2.00	ug/L
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
93-76-5	2,4,5-T	0.71	U	0.71	2.00	ug/L
94-82-6	2,4-DB	0.65	U	0.65	2.00	ug/L
88-85-7	DINOSEB	0.89	U	0.89	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	512		61 - 136	102%	SPK: 500

Comments:

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E = Value Exceeds Calibration Range
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Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
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S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168811BS	SDG No.:	Q2543
Lab Sample ID:	PB168811BS	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031024.D	1	07/11/25 08:50	07/14/25 17:38	PB168811

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	156		7.70	67.0	ug/Kg
120-36-5	DICHLORPROP	161		12.8	67.0	ug/Kg
94-75-7	2,4-D	185		9.00	67.0	ug/Kg
93-72-1	2,4,5-TP (Silvex)	174		9.10	67.0	ug/Kg
93-76-5	2,4,5-T	185		8.70	67.0	ug/Kg
94-82-6	2,4-DB	193		24.2	67.0	ug/Kg
88-85-7	DINOSEB	173		10.8	67.0	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	517		10 - 141	103%	SPK: 500

Comments:

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E = Value Exceeds Calibration Range
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Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
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S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-30MS	SDG No.:	Q2543
Lab Sample ID:	Q2529-10MS	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	91.4 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031145.D	1	07/11/25 08:50	07/18/25 21:46	PB168811

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	83.6		8.50	73.3	ug/Kg
120-36-5	DICHLORPROP	90.6		14.0	73.3	ug/Kg
94-75-7	2,4-D	179		9.90	73.3	ug/Kg
93-72-1	2,4,5-TP (Silvex)	284	P	9.90	73.3	ug/Kg
93-76-5	2,4,5-T	121		9.50	73.3	ug/Kg
94-82-6	2,4-DB	30.0	J	26.5	73.3	ug/Kg
88-85-7	DINOSEB	11.8	U	11.8	73.3	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	220		10 - 141	44%	SPK: 500

Comments:

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Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-30MSD	SDG No.:	Q2543
Lab Sample ID:	Q2529-10MSD	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	91.4 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031146.D	1	07/11/25 08:50	07/18/25 22:10	PB168811

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	98.6		8.50	73.2	ug/Kg
120-36-5	DICHLORPROP	107		14.0	73.2	ug/Kg
94-75-7	2,4-D	192		9.90	73.2	ug/Kg
93-72-1	2,4,5-TP (Silvex)	297	P	9.90	73.2	ug/Kg
93-76-5	2,4,5-T	143		9.50	73.2	ug/Kg
94-82-6	2,4-DB	32.0	J	26.4	73.2	ug/Kg
88-85-7	DINOSEB	11.8	U	11.8	73.2	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	257		10 - 141	51%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CALIBRATION SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

RETENTION TIMES OF INITIAL CALIBRATION

Lab Name: Alliance
Lab Code: ACE
Instrument ID: ECD_S
Contract: CAMP02
SDG NO.: Q2543
Calibration Date(s): 07/11/2025 07/11/2025
Calibration Times: 16:00 17:36

GC Column: RTX-CLP ID: 0.32 (mm)

LAB FILE ID: RT 200 = PS031006.D RT 500 = PS031007.D
RT 750 = PS031008.D RT 1000 = PS031009.D RT 1500 = PS031010.D

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW FROM	RT WINDOW TO
2,4,5-T	9.65	9.65	9.65	9.65	9.65	9.65	9.55	9.75
2,4,5-TP(Silvex)	9.35	9.35	9.35	9.35	9.35	9.35	9.25	9.45
2,4-D	8.47	8.47	8.47	8.47	8.47	8.47	8.37	8.57
2,4-DB	10.23	10.23	10.23	10.22	10.22	10.22	10.12	10.32
2,4-DCAA	7.33	7.33	7.33	7.33	7.33	7.33	7.23	7.43
DICAMBA	7.52	7.52	7.52	7.52	7.52	7.52	7.42	7.62
DICHLORPROP	8.23	8.23	8.24	8.23	8.23	8.23	8.13	8.33
Dinoseb	11.44	11.44	11.44	11.44	11.44	11.44	11.34	11.54

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RETENTION TIMES OF INITIAL CALIBRATION

Lab Name: Alliance
Lab Code: ACE
Instrument ID: ECD_S
Contract: CAMP02
SDG NO.: Q2543
Calibration Date(s): 07/11/2025 07/11/2025
Calibration Times: 16:00 17:36

GC Column: RTX-CLP2 ID: 0.32 (mm)

LAB FILE ID: RT 200 = PS031006.D RT 500 = PS031007.D
RT 750 = PS031008.D RT 1000 = PS031009.D RT 1500 = PS031010.D

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW FROM	RT WINDOW TO
2,4,5-T	10.36	10.36	10.36	10.36	10.36	10.36	10.26	10.46
2,4,5-TP(Silvex)	9.93	9.93	9.93	9.93	9.93	9.93	9.83	10.03
2,4-D	9.03	9.03	9.03	9.03	9.03	9.03	8.93	9.13
2,4-DB	10.93	10.93	10.93	10.93	10.93	10.93	10.83	11.03
2,4-DCAA	7.77	7.77	7.77	7.77	7.77	7.77	7.67	7.87
DICAMBA	7.97	7.97	7.97	7.97	7.97	7.97	7.87	8.07
DICHLORPROP	8.69	8.69	8.69	8.69	8.69	8.69	8.59	8.79
Dinoseb	11.31	11.31	11.31	11.31	11.31	11.31	11.21	11.41

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Lab Name: Alliance
Lab Code: ACE
Instrument ID: ECD_S

Contract: CAMP02
SDG NO.: Q2543
Calibration Date(s): 07/11/2025 07/11/2025
Calibration Times: 16:00 17:36

GC Column: RTX-CLP **ID:** 0.32 (mm)

LAB FILE ID: CF 200 = PS031006.D CF 500 = PS031007.D
CF 750 = PS031008.D CF 1000 = PS031009.D CF 1500 = PS031010.D

COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-T	16153700000	14634600000	14827200000	15218900000	15232300000	15213300000	4
2,4,5-TP(Silvex)	20737500000	18270800000	18189000000	18194100000	17662300000	18610700000	7
2,4-D	3556670000	2984170000	2931980000	2976850000	2942510000	3078440000	9
2,4-DB	2297930000	2042050000	2088340000	2166500000	2259130000	2170790000	5
2,4-DCAA	4821770000	3910250000	3755950000	3730170000	3557220000	3955070000	13
DICAMBA	18746100000	15451800000	15023600000	14973000000	14260000000	15690900000	11
DICHLORPROP	4147310000	3328120000	3223340000	3219630000	3107370000	3405150000	12
Dinoseb	14412500000	12754600000	12827100000	13048300000	12877100000	13183900000	5

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Lab Name: Alliance
Lab Code: ACE
Instrument ID: ECD_S

Contract: CAMP02
SDG NO.: Q2543
Calibration Date(s): 07/11/2025 07/11/2025
Calibration Times: 16:00 17:36

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 200 =** PS031006.D **CF 500 =** PS031007.D
CF 750 = PS031008.D **CF 1000 =** PS031009.D **CF 1500 =** PS031010.D

COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-T	16269400000	13765000000	13530200000	13537000000	12857400000	13991800000	9
2,4,5-TP(Silvex)	17216300000	14510800000	14174600000	14131100000	13346200000	14675800000	10
2,4-D	2058060000	1665160000	1617550000	1610710000	1545850000	1699460000	12
2,4-DB	1412490000	1151430000	1126050000	1131610000	1094330000	1183180000	11
2,4-DCAA	1258080000	1011280000	984071000	981302000	945431000	1036030000	12
DICAMBA	7306630000	6285710000	6261030000	6359950000	6168790000	6476420000	7
DICHLORPROP	1860680000	1491170000	1445400000	1431140000	1367910000	1519260000	13
Dinoseb	13202400000	11075600000	10918600000	11003800000	10557100000	11351500000	9

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

Continuing Calib Date: 07/14/2025 **Initial Calibration Date(s):** 07/11/2025 07/11/2025

Continuing Calib Time: 16:34 **Initial Calibration Time(s):** 16:00 17:36

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.52	7.52	7.42	7.62	0.00
2,4-DCAA	7.33	7.33	7.23	7.43	0.00
DICHLORPROP	8.23	8.24	8.14	8.34	0.01
2,4-D	8.47	8.47	8.37	8.57	0.00
2,4,5-TP(Silvex)	9.35	9.35	9.25	9.45	0.00
2,4,5-T	9.65	9.65	9.55	9.75	0.00
2,4-DB	10.22	10.23	10.13	10.33	0.01
Dinoseb	11.44	11.44	11.34	11.54	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

Continuing Calib Date: 07/14/2025 **Initial Calibration Date(s):** 07/11/2025 07/11/2025

Continuing Calib Time: 16:34 **Initial Calibration Time(s):** 16:00 17:36

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.97	7.97	7.87	8.07	0.00
2,4-DCAA	7.77	7.77	7.67	7.87	0.00
DICHLORPROP	8.69	8.69	8.59	8.79	0.00
2,4-D	9.02	9.03	8.93	9.13	0.01
2,4,5-TP(Silvex)	9.93	9.93	9.83	10.03	0.00
2,4,5-T	10.36	10.36	10.26	10.46	0.00
2,4-DB	10.92	10.93	10.83	11.03	0.01
Dinoseb	11.31	11.31	11.21	11.41	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 07/11/2025 07/11/2025

Client Sample No.: CCAL01 **Date Analyzed:** 07/14/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS031022.D **Time Analyzed:** 16:34

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.646	9.547	9.747	783.010	712.500	9.9
2,4,5-TP(Silvex)	9.351	9.253	9.453	715.530	712.500	0.4
2,4-D	8.466	8.367	8.567	745.710	705.000	5.8
2,4-DB	10.223	10.125	10.325	830.760	712.500	16.6
2,4-DCAA	7.332	7.233	7.433	695.670	750.000	-7.2
DICAMBA	7.521	7.422	7.622	650.910	705.000	-7.7
DICHLORPROP	8.234	8.135	8.335	655.790	705.000	-7.0
Dinoseb	11.440	11.339	11.539	724.700	705.000	2.8

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 07/11/2025 07/11/2025

Client Sample No.: CCAL01 **Date Analyzed:** 07/14/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS031022.D **Time Analyzed:** 16:34

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.356	10.258	10.458	620.360	712.500	-12.9
2,4,5-TP(Silvex)	9.929	9.832	10.032	618.290	712.500	-13.2
2,4-D	9.024	8.927	9.127	599.860	705.000	-14.9
2,4-DB	10.924	10.826	11.026	610.180	712.500	-14.4
2,4-DCAA	7.766	7.669	7.869	627.630	750.000	-16.3
DICAMBA	7.968	7.871	8.071	603.010	705.000	-14.5
DICHLORPROP	8.688	8.591	8.791	597.240	705.000	-15.3
Dinoseb	11.308	11.210	11.410	608.040	705.000	-13.8

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

Continuing Calib Date: 07/14/2025 **Initial Calibration Date(s):** 07/11/2025 07/11/2025

Continuing Calib Time: 21:09 **Initial Calibration Time(s):** 16:00 17:36

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.52	7.52	7.42	7.62	0.00
2,4-DCAA	7.33	7.33	7.23	7.43	0.00
DICHLORPROP	8.23	8.24	8.14	8.34	0.01
2,4-D	8.47	8.47	8.37	8.57	0.00
2,4,5-TP(Silvex)	9.35	9.35	9.25	9.45	0.00
2,4,5-T	9.64	9.65	9.55	9.75	0.01
2,4-DB	10.22	10.23	10.13	10.33	0.01
Dinoseb	11.44	11.44	11.34	11.54	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

Continuing Calib Date: 07/14/2025 **Initial Calibration Date(s):** 07/11/2025 07/11/2025

Continuing Calib Time: 21:09 **Initial Calibration Time(s):** 16:00 17:36

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.97	7.97	7.87	8.07	0.00
2,4-DCAA	7.77	7.77	7.67	7.87	0.00
DICHLORPROP	8.69	8.69	8.59	8.79	0.00
2,4-D	9.03	9.03	8.93	9.13	0.00
2,4,5-TP(Silvex)	9.93	9.93	9.83	10.03	0.00
2,4,5-T	10.36	10.36	10.26	10.46	0.00
2,4-DB	10.93	10.93	10.83	11.03	0.00
Dinoseb	11.31	11.31	11.21	11.41	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 07/11/2025 07/11/2025

Client Sample No.: CCAL02 **Date Analyzed:** 07/14/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS031028.D **Time Analyzed:** 21:09

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.644	9.547	9.747	779.770	712.500	9.4
2,4,5-TP(Silvex)	9.350	9.253	9.453	713.000	712.500	0.1
2,4-D	8.465	8.367	8.567	718.070	705.000	1.9
2,4-DB	10.221	10.125	10.325	828.510	712.500	16.3
2,4-DCAA	7.331	7.233	7.433	615.310	750.000	-18.0
DICAMBA	7.520	7.422	7.622	637.220	705.000	-9.6
DICHLORPROP	8.232	8.135	8.335	653.380	705.000	-7.3
Dinoseb	11.436	11.339	11.539	719.910	705.000	2.1

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 07/11/2025 07/11/2025

Client Sample No.: CCAL02 **Date Analyzed:** 07/14/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS031028.D **Time Analyzed:** 21:09

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.358	10.258	10.458	625.920	712.500	-12.2
2,4,5-TP(Silvex)	9.932	9.832	10.032	624.030	712.500	-12.4
2,4-D	9.027	8.927	9.127	604.190	705.000	-14.3
2,4-DB	10.926	10.826	11.026	615.440	712.500	-13.6
2,4-DCAA	7.768	7.669	7.869	636.340	750.000	-15.2
DICAMBA	7.971	7.871	8.071	608.800	705.000	-13.6
DICHLORPROP	8.691	8.591	8.791	602.040	705.000	-14.6
Dinoseb	11.311	11.210	11.410	610.300	705.000	-13.4

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

Continuing Calib Date: 07/18/2025 **Initial Calibration Date(s):** 07/11/2025 07/11/2025

Continuing Calib Time: 21:22 **Initial Calibration Time(s):** 16:00 17:36

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.51	7.52	7.42	7.62	0.01
2,4-DCAA	7.32	7.33	7.23	7.43	0.01
DICHLORPROP	8.23	8.24	8.14	8.34	0.01
2,4-D	8.46	8.47	8.37	8.57	0.01
2,4,5-TP(Silvex)	9.34	9.35	9.25	9.45	0.01
2,4,5-T	9.64	9.65	9.55	9.75	0.01
2,4-DB	10.21	10.23	10.13	10.33	0.02
Dinoseb	11.43	11.44	11.34	11.54	0.01

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

Continuing Calib Date: 07/18/2025 **Initial Calibration Date(s):** 07/11/2025 07/11/2025

Continuing Calib Time: 21:22 **Initial Calibration Time(s):** 16:00 17:36

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.97	7.97	7.87	8.07	0.00
2,4-DCAA	7.77	7.77	7.67	7.87	0.00
DICHLORPROP	8.69	8.69	8.59	8.79	0.00
2,4-D	9.02	9.03	8.93	9.13	0.01
2,4,5-TP(Silvex)	9.93	9.93	9.83	10.03	0.00
2,4,5-T	10.36	10.36	10.26	10.46	0.01
2,4-DB	10.92	10.93	10.83	11.03	0.01
Dinoseb	11.31	11.31	11.21	11.41	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 07/11/2025 07/11/2025

Client Sample No.: CCAL03 **Date Analyzed:** 07/18/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS031144.D **Time Analyzed:** 21:22

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.636	9.547	9.747	850.050	712.500	19.3
2,4,5-TP(Silvex)	9.342	9.253	9.453	804.740	712.500	12.9
2,4-D	8.456	8.367	8.567	830.710	705.000	17.8
2,4-DB	10.212	10.125	10.325	846.420	712.500	18.8
2,4-DCAA	7.324	7.233	7.433	726.770	750.000	-3.1
DICAMBA	7.514	7.422	7.622	633.820	705.000	-10.1
DICHLORPROP	8.225	8.135	8.335	765.780	705.000	8.6
Dinoseb	11.427	11.339	11.539	785.940	705.000	11.5

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 07/11/2025 07/11/2025

Client Sample No.: CCAL03 **Date Analyzed:** 07/18/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS031144.D **Time Analyzed:** 21:22

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.355	10.258	10.458	657.810	712.500	-7.7
2,4,5-TP(Silvex)	9.928	9.832	10.032	675.600	712.500	-5.2
2,4-D	9.023	8.927	9.127	699.880	705.000	-0.7
2,4-DB	10.922	10.826	11.026	628.760	712.500	-11.8
2,4-DCAA	7.766	7.669	7.869	674.350	750.000	-10.1
DICAMBA	7.968	7.871	8.071	640.590	705.000	-9.1
DICHLORPROP	8.687	8.591	8.791	675.920	705.000	-4.1
Dinoseb	11.307	11.210	11.410	635.440	705.000	-9.9

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

Continuing Calib Date: 07/19/2025 **Initial Calibration Date(s):** 07/11/2025 07/11/2025

Continuing Calib Time: 01:23 **Initial Calibration Time(s):** 16:00 17:36

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.51	7.52	7.42	7.62	0.01
2,4-DCAA	7.32	7.33	7.23	7.43	0.01
DICHLORPROP	8.23	8.24	8.14	8.34	0.01
2,4-D	8.46	8.47	8.37	8.57	0.01
2,4,5-TP(Silvex)	9.34	9.35	9.25	9.45	0.01
2,4,5-T	9.63	9.65	9.55	9.75	0.02
2,4-DB	10.21	10.23	10.13	10.33	0.02
Dinoseb	11.43	11.44	11.34	11.54	0.01

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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

Continuing Calib Date: 07/19/2025 **Initial Calibration Date(s):** 07/11/2025 07/11/2025

Continuing Calib Time: 01:23 **Initial Calibration Time(s):** 16:00 17:36

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.97	7.97	7.87	8.07	0.00
2,4-DCAA	7.77	7.77	7.67	7.87	0.01
DICHLORPROP	8.69	8.69	8.59	8.79	0.00
2,4-D	9.02	9.03	8.93	9.13	0.01
2,4,5-TP(Silvex)	9.93	9.93	9.83	10.03	0.00
2,4,5-T	10.36	10.36	10.26	10.46	0.01
2,4-DB	10.92	10.93	10.83	11.03	0.01
Dinoseb	11.31	11.31	11.21	11.41	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 07/11/2025 07/11/2025

Client Sample No.: CCAL04 **Date Analyzed:** 07/19/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS031154.D **Time Analyzed:** 01:23

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.634	9.547	9.747	850.700	712.500	19.4
2,4,5-TP(Silvex)	9.341	9.253	9.453	799.060	712.500	12.1
2,4-D	8.456	8.367	8.567	832.130	705.000	18.0
2,4-DB	10.212	10.125	10.325	844.050	712.500	18.5
2,4-DCAA	7.324	7.233	7.433	724.370	750.000	-3.4
DICAMBA	7.513	7.422	7.622	632.640	705.000	-10.3
DICHLORPROP	8.225	8.135	8.335	762.560	705.000	8.2
Dinoseb	11.425	11.339	11.539	764.380	705.000	8.4

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 07/11/2025 07/11/2025

Client Sample No.: CCAL04 **Date Analyzed:** 07/19/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS031154.D **Time Analyzed:** 01:23

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.355	10.258	10.458	653.850	712.500	-8.2
2,4,5-TP(Silvex)	9.928	9.832	10.032	673.340	712.500	-5.5
2,4-D	9.023	8.927	9.127	693.610	705.000	-1.6
2,4-DB	10.923	10.826	11.026	629.860	712.500	-11.6
2,4-DCAA	7.765	7.669	7.869	671.450	750.000	-10.5
DICAMBA	7.967	7.871	8.071	639.590	705.000	-9.3
DICHLORPROP	8.687	8.591	8.791	665.820	705.000	-5.6
Dinoseb	11.306	11.210	11.410	623.520	705.000	-11.6

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Analytical Sequence

Client: CDM Smith **SDG No.:** Q2543

Project: South River WM Replacement **Instrument ID:** ECD_S

GC Column: RTX-CLP **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 07/11/2025 07/11/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

CLIENT ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCAA RT #	RT #
I.BLK	I.BLK	07/11/2025	15:35	PS031005.D	7.33	0.00
HSTDICC200	HSTDICC200	07/11/2025	16:00	PS031006.D	7.33	0.00
HSTDICC500	HSTDICC500	07/11/2025	16:24	PS031007.D	7.33	0.00
HSTDICC750	HSTDICC750	07/11/2025	16:48	PS031008.D	7.33	0.00
HSTDICC1000	HSTDICC1000	07/11/2025	17:12	PS031009.D	7.33	0.00
HSTDICC1500	HSTDICC1500	07/11/2025	17:36	PS031010.D	7.33	0.00
I.BLK	I.BLK	07/14/2025	12:17	PS031021.D	7.33	0.00
HSTDCCC750	HSTDCCC750	07/14/2025	16:34	PS031022.D	7.33	0.00
PB168811BL	PB168811BL	07/14/2025	17:10	PS031023.D	7.33	0.00
PB168811BS	PB168811BS	07/14/2025	17:38	PS031024.D	7.33	0.00
I.BLK	I.BLK	07/14/2025	19:32	PS031027.D	7.33	0.00
HSTDCCC750	HSTDCCC750	07/14/2025	21:09	PS031028.D	7.33	0.00
I.BLK	I.BLK	07/18/2025	20:34	PS031143.D	7.32	0.00
HSTDCCC750	HSTDCCC750	07/18/2025	21:22	PS031144.D	7.32	0.00
TP-30MS	Q2529-10MS	07/18/2025	21:46	PS031145.D	7.32	0.00
TP-30MSD	Q2529-10MSD	07/18/2025	22:10	PS031146.D	7.32	0.00
TP-41	Q2543-01	07/18/2025	22:34	PS031147.D	7.32	0.00
TP-49	Q2543-02	07/18/2025	22:59	PS031148.D	7.32	0.00
TP-23	Q2543-03	07/18/2025	23:23	PS031149.D	7.32	0.00
TP-23-99	Q2543-04	07/18/2025	23:47	PS031150.D	7.32	0.00
I.BLK	I.BLK	07/19/2025	00:59	PS031153.D	7.32	0.00
HSTDCCC750	HSTDCCC750	07/19/2025	01:23	PS031154.D	7.32	0.00

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Analytical Sequence

Client: CDM Smith **SDG No.:** Q2543

Project: South River WM Replacement **Instrument ID:** ECD_S

GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 07/11/2025 07/11/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

CLIENT ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCAA RT #	RT #
I.BLK	I.BLK	07/11/2025	15:35	PS031005.D	7.77	0.00
HSTDICC200	HSTDICC200	07/11/2025	16:00	PS031006.D	7.77	0.00
HSTDICC500	HSTDICC500	07/11/2025	16:24	PS031007.D	7.77	0.00
HSTDICC750	HSTDICC750	07/11/2025	16:48	PS031008.D	7.77	0.00
HSTDICC1000	HSTDICC1000	07/11/2025	17:12	PS031009.D	7.77	0.00
HSTDICC1500	HSTDICC1500	07/11/2025	17:36	PS031010.D	7.77	0.00
I.BLK	I.BLK	07/14/2025	12:17	PS031021.D	7.76	0.00
HSTDCCC750	HSTDCCC750	07/14/2025	16:34	PS031022.D	7.77	0.00
PB168811BL	PB168811BL	07/14/2025	17:10	PS031023.D	7.77	0.00
PB168811BS	PB168811BS	07/14/2025	17:38	PS031024.D	7.77	0.00
I.BLK	I.BLK	07/14/2025	19:32	PS031027.D	7.77	0.00
HSTDCCC750	HSTDCCC750	07/14/2025	21:09	PS031028.D	7.77	0.00
I.BLK	I.BLK	07/18/2025	20:34	PS031143.D	7.77	0.00
HSTDCCC750	HSTDCCC750	07/18/2025	21:22	PS031144.D	7.77	0.00
TP-30MS	Q2529-10MS	07/18/2025	21:46	PS031145.D	7.77	0.00
TP-30MSD	Q2529-10MSD	07/18/2025	22:10	PS031146.D	7.77	0.00
TP-41	Q2543-01	07/18/2025	22:34	PS031147.D	7.77	0.00
TP-49	Q2543-02	07/18/2025	22:59	PS031148.D	7.77	0.00
TP-23	Q2543-03	07/18/2025	23:23	PS031149.D	7.76	0.00
TP-23-99	Q2543-04	07/18/2025	23:47	PS031150.D	7.77	0.00
I.BLK	I.BLK	07/19/2025	00:59	PS031153.D	7.77	0.00
HSTDCCC750	HSTDCCC750	07/19/2025	01:23	PS031154.D	7.77	0.00

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB168811BS

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

Lab Sample ID: PB168811BS **Date(s) Analyzed:** 07/14/2025 07/14/2025

Instrument ID (1): ECD_S **Instrument ID (2):** ECD_S

GC Column: (1): RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
2,4,5-T	1	9.65	9.60	9.70	185	21.6
	2	10.36	10.31	10.41	149	
2,4,5-TP(Silvex)	1	9.35	9.30	9.40	174	15.5
	2	9.93	9.88	9.98	149	
2,4-D	1	8.47	8.42	8.52	185	24.2
	2	9.02	8.97	9.07	145	
2,4-DB	1	10.22	10.17	10.27	193	27.7
	2	10.92	10.87	10.97	146	
DICHLORPROP	1	8.23	8.18	8.28	161	11.8
	2	8.69	8.64	8.74	143	
Dinoseb	1	11.44	11.39	11.49	173	18.3
	2	11.31	11.26	11.36	144	
DICAMBA	1	7.52	7.47	7.57	156	8.7
	2	7.97	7.92	8.02	143	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-30MS

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

Lab Sample ID: Q2529-10MS **Date(s) Analyzed:** 07/18/2025 07/18/2025

Instrument ID (1): ECD_S **Instrument ID (2):** ECD_S

GC Column: (1): RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
2,4,5-T	1	9.64	9.59	9.69	121	35
	2	10.35	10.30	10.40	85.0	
2,4,5-TP(Silvex)	1	9.34	9.29	9.39	98.3	97.1
	2	9.94	9.89	9.99	284	
2,4-D	1	8.46	8.41	8.51	179	16.3
	2	9.03	8.98	9.08	152	
2,4-DB	1	10.21	10.16	10.26	30.0	3
	2	10.92	10.87	10.97	29.1	
DICHLORPROP	1	8.23	8.18	8.28	84.5	7
	2	8.69	8.64	8.74	90.6	
DICAMBA	1	7.51	7.46	7.56	83.6	1.1
	2	7.97	7.92	8.02	82.7	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-30MSD

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2543

Lab Sample ID: Q2529-10MSD **Date(s) Analyzed:** 07/18/2025 07/18/2025

Instrument ID (1): ECD_S **Instrument ID (2):** ECD_S

GC Column: (1): RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
2,4,5-T	1	9.64	9.59	9.69	143	34.4
	2	10.35	10.30	10.40	101	
DICHLORPROP	1	8.23	8.18	8.28	102	4.8
	2	8.69	8.64	8.74	107	
2,4-D	1	8.46	8.41	8.51	192	15.7
	2	9.03	8.98	9.08	164	
2,4,5-TP(Silvex)	1	9.34	9.29	9.39	117	87
	2	9.94	9.89	9.99	297	
2,4-DB	1	10.21	10.16	10.26	32.0	9.8
	2	10.92	10.87	10.97	29.0	
DICAMBA	1	7.51	7.46	7.56	98.6	0.5
	2	7.97	7.92	8.02	98.1	

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LAB CHRONICLE

OrderID:	Q2543	**OrderDate:**	7/9/2025 12:26:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	O42,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2543-01	**TP-41**	**SOIL**			**07/08/25**			**07/09/25**
			Diesel Range Organics	8015D		07/16/25	07/16/25	
			Gasoline Range Organics	8015D			07/10/25	
			PCB	8082A		07/10/25	07/10/25	
			Pesticide-TCL	8081B		07/10/25	07/10/25	
Q2543-02	**TP-49**	**SOIL**			**07/09/25**			**07/09/25**
			Diesel Range Organics	8015D		07/16/25	07/16/25	
			Gasoline Range Organics	8015D			07/10/25	
			PCB	8082A		07/10/25	07/10/25	
			Pesticide-TCL	8081B		07/10/25	07/10/25	
Q2543-03	**TP-23**	**SOIL**			**07/09/25**			**07/09/25**
			Diesel Range Organics	8015D		07/16/25	07/16/25	
			Gasoline Range Organics	8015D			07/10/25	
			PCB	8082A		07/10/25	07/10/25	
			Pesticide-TCL	8081B		07/10/25	07/10/25	
Q2543-04	**TP-23-99**	**SOIL**			**07/09/25**			**07/09/25**
			Diesel Range Organics	8015D		07/16/25	07/16/25	
			Gasoline Range Organics	8015D			07/10/25	
			PCB	8082A		07/10/25	07/10/25	
			Pesticide-TCL	8081B		07/10/25	07/10/25	

SAMPLE DATA

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-41	SDG No.:	Q2543
Lab Sample ID:	Q2543-01	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	82 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016174.D	1	07/16/25 10:00	07/16/25 19:16	PB168878

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	11300		206	2030	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	12.3		37 - 130	61%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-49	SDG No.:	Q2543
Lab Sample ID:	Q2543-02	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	73.9 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016175.D	1	07/16/25 10:00	07/16/25 19:46	PB168878

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	7390		229	2250	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	9.18		37 - 130	46%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23	SDG No.:	Q2543
Lab Sample ID:	Q2543-03	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	85 Decanted:
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016176.D	1	07/16/25 10:00	07/16/25 20:16	PB168878

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	3800		199	1960	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	10.8		37 - 130	54%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23-99	SDG No.:	Q2543
Lab Sample ID:	Q2543-04	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	85.4 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016310.D	1	07/16/25 10:00	07/16/25 18:16	PB168878

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	4230		197	1950	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	15.1		37 - 130	76%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

QC SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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SOIL DIESEL RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Alliance Client: CDM Smith

Lab Code: ACE SDG No.: Q2543

CLIENT ID	S1 TETRACOSANE-d50	S2	S3	S4	TOT OUT
PIBLK-FF016170.D	92				0
PIBLK-FF016177.D	101				0
PIBLK-FG016300.D	91				0
PIBLK-FG016308.D	93				0
PIBLK-FG016313.D	93				0
PB168878BL	88				0
PB168878BS	85				0
TP-41	61				0
TP-49	46				0
TP-23	54				0
TP-23-99	76				0
TP-23-99MS	62				0
TP-23-99MSD	59				0

	QC LIMITS
TETRACOSANE-d50	For Water : 29-130 For Soil : 37-130

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate Diluted Out

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SOIL DIESEL RANGE ORGANICS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Alliance **Client:** CDM Smith

Lab Code: ACE **SDG No:** Q2543

Client Sample ID : TP-23-99MS **Datafile:** FG016311.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS(%)
DRO	7793	4230	10586	82%		68-131

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SOIL DIESEL RANGE ORGANICS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Alliance **Client:** CDM Smith

Lab Code: ACE **SDG No:** Q2543

Client Sample ID : TP-23-99MSD **Datafile:** FG016312.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS(%)
DRO	7801	4230	10604	82%		68-131

MS/MSD % Recovery RPD : 0.2

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SOIL DIESEL RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RI

Lab Name: Alliance **Client:** CDM Smith

Lab Code: ACE **SDG No:** Q2543

Client Sample ID : PB168878BS **Datafile:** FG016304.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS (%)
DRO	6660	0	5498	83	68-131

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4B
METHOD BLANK SUMMARY

CLIENT SAMPLE NO.
PB168878BL

Lab Name: Alliance
Contract: CAMP02
Lab Code: ACE
SDG NO.: Q2543
Lab File ID: FG016303.D
Lab Sample ID: PB168878BL
Instrument ID: FG
Date Extracted: 07/16/2025
Matrix: (soil/water) Soil
Date Analyzed: 07/16/25
Level: (low/med) low
Time Analyzed: 14:18

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
TP-41	Q2543-01	FF016174.D	07/16/25
TP-49	Q2543-02	FF016175.D	07/16/25
TP-23	Q2543-03	FF016176.D	07/16/25
PB168878BS	PB168878BS	FG016304.D	07/16/25
TP-23-99	Q2543-04	FG016310.D	07/16/25
TP-23-99MS	Q2543-04MS	FG016311.D	07/16/25
TP-23-99MSD	Q2543-04MSD	FG016312.D	07/16/25

COMMENTS:

QC SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168878BL	SDG No.:	Q2543
Lab Sample ID:	PB168878BL	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	100 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016303.D	1	07/16/25 10:00	07/16/25 14:18	PB168878

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	169	U	169	1670	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	17.6		37 - 130	88%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/16/25
Project:	South River WM Replacement	Date Received:	07/16/25
Client Sample ID:	PIBLK-FF016170.D	SDG No.:	Q2543
Lab Sample ID:	I.BLK-FF016170.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016170.D	1		07/16/25	FF071625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	18.5		29 - 130	92%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/16/25
Project:	South River WM Replacement	Date Received:	07/16/25
Client Sample ID:	PIBLK-FF016177.D	SDG No.:	Q2543
Lab Sample ID:	I.BLK-FF016177.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016177.D	1		07/16/25	FF071625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	20.2		29 - 130	101%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/16/25
Project:	South River WM Replacement	Date Received:	07/16/25
Client Sample ID:	PIBLK-FG016300.D	SDG No.:	Q2543
Lab Sample ID:	I.BLK-FG016300.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016300.D	1		07/16/25	FG071625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	18.3		29 - 130	91%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/16/25
Project:	South River WM Replacement	Date Received:	07/16/25
Client Sample ID:	PIBLK-FG016308.D	SDG No.:	Q2543
Lab Sample ID:	I.BLK-FG016308.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016308.D	1		07/16/25	FG071625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	18.7		29 - 130	93%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/16/25
Project:	South River WM Replacement	Date Received:	07/16/25
Client Sample ID:	PIBLK-FG016313.D	SDG No.:	Q2543
Lab Sample ID:	I.BLK-FG016313.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016313.D	1		07/16/25	FG071625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	18.6		29 - 130	93%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168878BS	SDG No.:	Q2543
Lab Sample ID:	PB168878BS	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	100 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016304.D	1	07/16/25 10:00	07/16/25 14:47	PB168878

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	5500		169	1670	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	17.0		37 - 130	85%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23-99MS	SDG No.:	Q2543
Lab Sample ID:	Q2543-04MS	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	85.4 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016311.D	1	07/16/25 10:00	07/16/25 18:46	PB168878

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	10600		198	1950	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	12.3		37 - 130	62%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23-99MSD	SDG No.:	Q2543
Lab Sample ID:	Q2543-04MSD	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	85.4 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016312.D	1	07/16/25 10:00	07/16/25 19:16	PB168878

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	10600		198	1950	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	11.8		37 - 130	59%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CALIBRATION SUMMARY

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DIESEL RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: Alliance
Contract: CAMP02
ProjectID: South River WM Replacement
Lab Code: ACE
SDG No.: Q2543

Calibration Sequence : FF071025		Test : Diesel Range Organics	
Concentration (PPM)	**Area Count**	**Reference Factor**	**File ID**
1000	104463293	104463	FF016130.D
500	56348110	112696	FF016131.D
200	23430036	117150	FF016132.D
100	12876046	128760	FF016133.D
50	5695447	113909	FF016134.D
AVG RF : 115396	**% RSD : 7.638**		**AVG RT : 15.1002**

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DIESEL RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: Alliance
Contract: CAMP02
ProjectID: South River WM Replacement
Lab Code: ACE
SDG No.: Q2543

Calibration Sequence : FG070925		Test : Diesel Range Organics	
Concentration (PPM)	**Area Count**	**Reference Factor**	**File ID**
1000	107457449	107457	FG016264.D
500	53927299	107855	FG016265.D
200	23004292	115021	FG016266.D
100	12319443	123194	FG016267.D
50	6076250	121525	FG016268.D
AVG RF : 115010	**% RSD : 6.414**		**AVG RT : 15.201**

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DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2543

DataFile: FF016171.D Analyst Name: YP\AJ Analyst Date: 07-16-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	57646303	115293	115396	0.089

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DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2543

DataFile: FF016178.D Analyst Name: YP\AJ Analyst Date: 07-16-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	63725868	127452	115396	10.448

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DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2543

DataFile: FG016301.D Analyst Name: YP\AJ Analyst Date: 07-16-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	54750916	109502	115010	4.789

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DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2543

DataFile: FG016309.D Analyst Name: YP\AJ Analyst Date: 07-16-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	56207865	112416	115010	2.255

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DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2543

DataFile: FG016314.D Analyst Name: YP\AJ Analyst Date: 07-16-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	56814336	113629	115010	1.201

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Analytical Sequence

Client: CDM Smith **SDG No.:** Q2543

Project: South River WM Replacement **Instrument ID:** FID_G

GC Column: RXI-1MS **ID:** 0.18 **(mm)**

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SUROGATE RT FROM INITIAL CALIBRATION **15.1002**

CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
PIBLK01	I.BLK01	16 Jul 2025 16:47	FF016170.D	15.096	
50 PPM TRPH STD	50 PPM TRPH STD	16 Jul 2025 17:16	FF016171.D	15.097	
TP-41	Q2543-01	16 Jul 2025 19:16	FF016174.D	15.094	
TP-49	Q2543-02	16 Jul 2025 19:46	FF016175.D	15.092	
TP-23	Q2543-03	16 Jul 2025 20:16	FF016176.D	15.093	
PIBLK02	I.BLK02	16 Jul 2025 20:45	FF016177.D	15.093	
50 PPM TRPH STD	50 PPM TRPH STD	16 Jul 2025 22:44	FF016178.D	15.094	
PIBLK03	I.BLK03	16 Jul 2025 12:08	FG016300.D	15.201	
50 PPM TRPH STD	50 PPM TRPH STD	16 Jul 2025 12:40	FG016301.D	15.204	
PB168878BL	PB168878BL	16 Jul 2025 14:18	FG016303.D	15.198	
PB168878BS	PB168878BS	16 Jul 2025 14:47	FG016304.D	15.199	
PIBLK04	I.BLK04	16 Jul 2025 16:47	FG016308.D	15.201	
50 PPM TRPH STD	50 PPM TRPH STD	16 Jul 2025 17:16	FG016309.D	15.203	
TP-23-99	Q2543-04	16 Jul 2025 18:16	FG016310.D	15.200	
TP-23-99MS	Q2543-04MS	16 Jul 2025 18:46	FG016311.D	15.199	
TP-23-99MSD	Q2543-04MSD	16 Jul 2025 19:16	FG016312.D	15.199	
PIBLK05	I.BLK05	16 Jul 2025 19:46	FG016313.D	15.198	
50 PPM TRPH STD	50 PPM TRPH STD	16 Jul 2025 20:45	FG016314.D	15.201	

 # Column used to flag RT values with an * values outside of QC limits

QC Limits	Lower Limit	Upper Limits
(± 0.10 minutes)	15.101	15.301

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LAB CHRONICLE

OrderID:	Q2543	**OrderDate:**	7/9/2025 12:26:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	O42,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2543-01	**TP-41**	**SOIL**			**07/08/25**			**07/09/25**
			Mercury	7471B		07/10/25	07/11/25	
			Metals ICP-TAL	6010D		07/10/25	07/11/25	
Q2543-02	**TP-49**	**SOIL**			**07/09/25**			**07/09/25**
			Mercury	7471B		07/10/25	07/11/25	
			Metals ICP-TAL	6010D		07/10/25	07/11/25	
Q2543-03	**TP-23**	**SOIL**			**07/09/25**			**07/09/25**
			Mercury	7471B		07/10/25	07/11/25	
			Metals ICP-TAL	6010D		07/10/25	07/11/25	
Q2543-04	**TP-23-99**	**SOIL**			**07/09/25**			**07/09/25**
			Mercury	7471B		07/10/25	07/11/25	
			Metals ICP-TAL	6010D		07/10/25	07/11/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2543 **Order ID:** Q2543

Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TP-41								
Q2543-01	TP-41	SOIL	Aluminum	2620		0.85	5.04	mg/Kg
Q2543-01	TP-41	SOIL	Arsenic	0.42	J	0.19	1.01	mg/Kg
Q2543-01	TP-41	SOIL	Barium	21.2		0.74	5.04	mg/Kg
Q2543-01	TP-41	SOIL	Beryllium	0.18	J	0.025	0.30	mg/Kg
Q2543-01	TP-41	SOIL	Calcium	12.7	J	11.2	101	mg/Kg
Q2543-01	TP-41	SOIL	Chromium	4.44		0.047	0.50	mg/Kg
Q2543-01	TP-41	SOIL	Cobalt	0.28	J	0.10	1.51	mg/Kg
Q2543-01	TP-41	SOIL	Copper	1.84		0.22	1.01	mg/Kg
Q2543-01	TP-41	SOIL	Iron	1630		4.02	5.04	mg/Kg
Q2543-01	TP-41	SOIL	Lead	3.14		0.13	0.61	mg/Kg
Q2543-01	TP-41	SOIL	Magnesium	171		12.1	101	mg/Kg
Q2543-01	TP-41	SOIL	Manganese	8.08		0.14	1.01	mg/Kg
Q2543-01	TP-41	SOIL	Nickel	1.08	J	0.13	2.02	mg/Kg
Q2543-01	TP-41	SOIL	Potassium	212		27.9	101	mg/Kg
Q2543-01	TP-41	SOIL	Sodium	242		17.9	101	mg/Kg
Q2543-01	TP-41	SOIL	Vanadium	4.20		0.25	2.02	mg/Kg
Q2543-01	TP-41	SOIL	Zinc	4.48		0.23	2.02	mg/Kg
Client ID : TP-49								
Q2543-02	TP-49	SOIL	Aluminum	4000		1.01	6.04	mg/Kg
Q2543-02	TP-49	SOIL	Arsenic	22.2		0.23	1.21	mg/Kg
Q2543-02	TP-49	SOIL	Barium	21.9		0.88	6.04	mg/Kg
Q2543-02	TP-49	SOIL	Beryllium	0.79		0.030	0.36	mg/Kg
Q2543-02	TP-49	SOIL	Calcium	799		13.4	121	mg/Kg
Q2543-02	TP-49	SOIL	Chromium	11.3		0.057	0.60	mg/Kg
Q2543-02	TP-49	SOIL	Cobalt	1.67	J	0.12	1.81	mg/Kg
Q2543-02	TP-49	SOIL	Copper	19.3		0.27	1.21	mg/Kg
Q2543-02	TP-49	SOIL	Iron	27000		4.82	6.04	mg/Kg
Q2543-02	TP-49	SOIL	Lead	19.1		0.16	0.73	mg/Kg
Q2543-02	TP-49	SOIL	Magnesium	234		14.5	121	mg/Kg
Q2543-02	TP-49	SOIL	Manganese	10.9		0.17	1.21	mg/Kg
Q2543-02	TP-49	SOIL	Mercury	0.037		0.0090	0.017	mg/Kg
Q2543-02	TP-49	SOIL	Nickel	2.31	J	0.16	2.42	mg/Kg
Q2543-02	TP-49	SOIL	Potassium	410		33.5	121	mg/Kg
Q2543-02	TP-49	SOIL	Sodium	487		21.5	121	mg/Kg
Q2543-02	TP-49	SOIL	Thallium	1.42	J	0.28	2.42	mg/Kg
Q2543-02	TP-49	SOIL	Vanadium	48.5		0.30	2.42	mg/Kg
Q2543-02	TP-49	SOIL	Zinc	15.8		0.28	2.42	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q2543 **Order ID:** Q2543

Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TP-23								
Q2543-03	TP-23	SOIL	Aluminum	3280		0.84	4.99	mg/Kg
Q2543-03	TP-23	SOIL	Arsenic	2.77		0.19	1.00	mg/Kg
Q2543-03	TP-23	SOIL	Barium	15.7		0.73	4.99	mg/Kg
Q2543-03	TP-23	SOIL	Beryllium	0.43		0.025	0.30	mg/Kg
Q2543-03	TP-23	SOIL	Calcium	238		11.1	99.7	mg/Kg
Q2543-03	TP-23	SOIL	Chromium	3.41		0.047	0.50	mg/Kg
Q2543-03	TP-23	SOIL	Cobalt	1.10	J	0.10	1.50	mg/Kg
Q2543-03	TP-23	SOIL	Copper	6.23		0.22	1.00	mg/Kg
Q2543-03	TP-23	SOIL	Iron	15700		3.98	4.99	mg/Kg
Q2543-03	TP-23	SOIL	Lead	4.31		0.13	0.60	mg/Kg
Q2543-03	TP-23	SOIL	Magnesium	238		12.0	99.7	mg/Kg
Q2543-03	TP-23	SOIL	Manganese	23.6		0.14	1.00	mg/Kg
Q2543-03	TP-23	SOIL	Nickel	1.99		0.13	1.99	mg/Kg
Q2543-03	TP-23	SOIL	Potassium	203		27.6	99.7	mg/Kg
Q2543-03	TP-23	SOIL	Sodium	559		17.7	99.7	mg/Kg
Q2543-03	TP-23	SOIL	Thallium	0.58	J	0.23	1.99	mg/Kg
Q2543-03	TP-23	SOIL	Vanadium	14.2		0.25	1.99	mg/Kg
Q2543-03	TP-23	SOIL	Zinc	9.87		0.23	1.99	mg/Kg
Client ID : TP-23-99								
Q2543-04	TP-23-99	SOIL	Aluminum	3400		0.86	5.11	mg/Kg
Q2543-04	TP-23-99	SOIL	Arsenic	2.44		0.19	1.02	mg/Kg
Q2543-04	TP-23-99	SOIL	Barium	7.93		0.75	5.11	mg/Kg
Q2543-04	TP-23-99	SOIL	Beryllium	0.39		0.026	0.31	mg/Kg
Q2543-04	TP-23-99	SOIL	Calcium	120		11.4	102	mg/Kg
Q2543-04	TP-23-99	SOIL	Chromium	4.73		0.048	0.51	mg/Kg
Q2543-04	TP-23-99	SOIL	Cobalt	1.09	J	0.10	1.53	mg/Kg
Q2543-04	TP-23-99	SOIL	Copper	6.28		0.23	1.02	mg/Kg
Q2543-04	TP-23-99	SOIL	Iron	12400		4.08	5.11	mg/Kg
Q2543-04	TP-23-99	SOIL	Lead	5.18		0.13	0.61	mg/Kg
Q2543-04	TP-23-99	SOIL	Magnesium	244		12.3	102	mg/Kg
Q2543-04	TP-23-99	SOIL	Manganese	17.2		0.14	1.02	mg/Kg
Q2543-04	TP-23-99	SOIL	Nickel	2.17		0.13	2.05	mg/Kg
Q2543-04	TP-23-99	SOIL	Potassium	170		28.3	102	mg/Kg
Q2543-04	TP-23-99	SOIL	Sodium	415		18.2	102	mg/Kg
Q2543-04	TP-23-99	SOIL	Thallium	0.38	J	0.24	2.05	mg/Kg
Q2543-04	TP-23-99	SOIL	Vanadium	13.8		0.26	2.05	mg/Kg
Q2543-04	TP-23-99	SOIL	Zinc	9.37		0.24	2.05	mg/Kg

SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-41	SDG No.:	Q2543
Lab Sample ID:	Q2543-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	82

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	2620		1	0.85	5.04	mg/Kg	07/10/25 10:15	07/11/25 02:07	6010D	SW3050
7440-36-0	Antimony	0.22	UN	1	0.22	2.52	mg/Kg	07/10/25 10:15	07/11/25 02:07	6010D	SW3050
7440-38-2	Arsenic	0.42	J	1	0.19	1.01	mg/Kg	07/10/25 10:15	07/11/25 02:07	6010D	SW3050
7440-39-3	Barium	21.2	N	1	0.74	5.04	mg/Kg	07/10/25 10:15	07/11/25 02:07	6010D	SW3050
7440-41-7	Beryllium	0.18	J	1	0.025	0.30	mg/Kg	07/10/25 10:15	07/11/25 02:07	6010D	SW3050
7440-43-9	Cadmium	0.024	U	1	0.024	0.30	mg/Kg	07/10/25 10:15	07/11/25 02:07	6010D	SW3050
7440-70-2	Calcium	12.7	J	1	11.2	101	mg/Kg	07/10/25 10:15	07/11/25 02:07	6010D	SW3050
7440-47-3	Chromium	4.44		1	0.047	0.50	mg/Kg	07/10/25 10:15	07/11/25 02:07	6010D	SW3050
7440-48-4	Cobalt	0.28	J	1	0.10	1.51	mg/Kg	07/10/25 10:15	07/11/25 02:07	6010D	SW3050
7440-50-8	Copper	1.84		1	0.22	1.01	mg/Kg	07/10/25 10:15	07/11/25 02:07	6010D	SW3050
7439-89-6	Iron	1630		1	4.02	5.04	mg/Kg	07/10/25 10:15	07/11/25 02:07	6010D	SW3050
7439-92-1	Lead	3.14		1	0.13	0.61	mg/Kg	07/10/25 10:15	07/11/25 02:07	6010D	SW3050
7439-95-4	Magnesium	171		1	12.1	101	mg/Kg	07/10/25 10:15	07/11/25 02:07	6010D	SW3050
7439-96-5	Manganese	8.08		1	0.14	1.01	mg/Kg	07/10/25 10:15	07/11/25 02:07	6010D	SW3050
7439-97-6	Mercury	0.0080	UN	1	0.0080	0.015	mg/Kg	07/10/25 16:00	07/11/25 14:49	7471B	
7440-02-0	Nickel	1.08	J	1	0.13	2.02	mg/Kg	07/10/25 10:15	07/11/25 02:07	6010D	SW3050
7440-09-7	Potassium	212		1	27.9	101	mg/Kg	07/10/25 10:15	07/11/25 02:07	6010D	SW3050
7782-49-2	Selenium	0.26	UN	1	0.26	1.01	mg/Kg	07/10/25 10:15	07/11/25 02:07	6010D	SW3050
7440-22-4	Silver	0.12	U	1	0.12	0.50	mg/Kg	07/10/25 10:15	07/11/25 02:07	6010D	SW3050
7440-23-5	Sodium	242		1	17.9	101	mg/Kg	07/10/25 10:15	07/11/25 02:07	6010D	SW3050
7440-28-0	Thallium	0.23	U	1	0.23	2.02	mg/Kg	07/10/25 10:15	07/11/25 02:07	6010D	SW3050
7440-62-2	Vanadium	4.20	N	1	0.25	2.02	mg/Kg	07/10/25 10:15	07/11/25 02:07	6010D	SW3050
7440-66-6	Zinc	4.48		1	0.23	2.02	mg/Kg	07/10/25 10:15	07/11/25 02:07	6010D	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-49	SDG No.:	Q2543
Lab Sample ID:	Q2543-02	Matrix:	SOIL
Level (low/med):	low	% Solid:	73.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	4000		1	1.01	6.04	mg/Kg	07/10/25 10:15	07/11/25 02:11	6010D	SW3050
7440-36-0	Antimony	0.27	UN	1	0.27	3.02	mg/Kg	07/10/25 10:15	07/11/25 02:11	6010D	SW3050
7440-38-2	Arsenic	22.2		1	0.23	1.21	mg/Kg	07/10/25 10:15	07/11/25 02:11	6010D	SW3050
7440-39-3	Barium	21.9	N	1	0.88	6.04	mg/Kg	07/10/25 10:15	07/11/25 02:11	6010D	SW3050
7440-41-7	Beryllium	0.79		1	0.030	0.36	mg/Kg	07/10/25 10:15	07/11/25 02:11	6010D	SW3050
7440-43-9	Cadmium	0.029	U	1	0.029	0.36	mg/Kg	07/10/25 10:15	07/11/25 02:11	6010D	SW3050
7440-70-2	Calcium	799		1	13.4	121	mg/Kg	07/10/25 10:15	07/11/25 02:11	6010D	SW3050
7440-47-3	Chromium	11.3		1	0.057	0.60	mg/Kg	07/10/25 10:15	07/11/25 02:11	6010D	SW3050
7440-48-4	Cobalt	1.67	J	1	0.12	1.81	mg/Kg	07/10/25 10:15	07/11/25 02:11	6010D	SW3050
7440-50-8	Copper	19.3		1	0.27	1.21	mg/Kg	07/10/25 10:15	07/11/25 02:11	6010D	SW3050
7439-89-6	Iron	27000		1	4.82	6.04	mg/Kg	07/10/25 10:15	07/11/25 02:11	6010D	SW3050
7439-92-1	Lead	19.1		1	0.16	0.73	mg/Kg	07/10/25 10:15	07/11/25 02:11	6010D	SW3050
7439-95-4	Magnesium	234		1	14.5	121	mg/Kg	07/10/25 10:15	07/11/25 02:11	6010D	SW3050
7439-96-5	Manganese	10.9		1	0.17	1.21	mg/Kg	07/10/25 10:15	07/11/25 02:11	6010D	SW3050
7439-97-6	Mercury	0.037	N	1	0.0090	0.017	mg/Kg	07/10/25 16:00	07/11/25 14:51	7471B	
7440-02-0	Nickel	2.31	J	1	0.16	2.42	mg/Kg	07/10/25 10:15	07/11/25 02:11	6010D	SW3050
7440-09-7	Potassium	410		1	33.5	121	mg/Kg	07/10/25 10:15	07/11/25 02:11	6010D	SW3050
7782-49-2	Selenium	0.31	UN	1	0.31	1.21	mg/Kg	07/10/25 10:15	07/11/25 02:11	6010D	SW3050
7440-22-4	Silver	0.14	U	1	0.14	0.60	mg/Kg	07/10/25 10:15	07/11/25 02:11	6010D	SW3050
7440-23-5	Sodium	487		1	21.5	121	mg/Kg	07/10/25 10:15	07/11/25 02:11	6010D	SW3050
7440-28-0	Thallium	1.42	J	1	0.28	2.42	mg/Kg	07/10/25 10:15	07/11/25 02:11	6010D	SW3050
7440-62-2	Vanadium	48.5	N	1	0.30	2.42	mg/Kg	07/10/25 10:15	07/11/25 02:11	6010D	SW3050
7440-66-6	Zinc	15.8		1	0.28	2.42	mg/Kg	07/10/25 10:15	07/11/25 02:11	6010D	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23	SDG No.:	Q2543
Lab Sample ID:	Q2543-03	Matrix:	SOIL
Level (low/med):	low	% Solid:	85

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	3280		1	0.84	4.99	mg/Kg	07/10/25 10:15	07/11/25 02:15	6010D	SW3050
7440-36-0	Antimony	0.22	UN	1	0.22	2.49	mg/Kg	07/10/25 10:15	07/11/25 02:15	6010D	SW3050
7440-38-2	Arsenic	2.77		1	0.19	1.00	mg/Kg	07/10/25 10:15	07/11/25 02:15	6010D	SW3050
7440-39-3	Barium	15.7	N	1	0.73	4.99	mg/Kg	07/10/25 10:15	07/11/25 02:15	6010D	SW3050
7440-41-7	Beryllium	0.43		1	0.025	0.30	mg/Kg	07/10/25 10:15	07/11/25 02:15	6010D	SW3050
7440-43-9	Cadmium	0.024	U	1	0.024	0.30	mg/Kg	07/10/25 10:15	07/11/25 02:15	6010D	SW3050
7440-70-2	Calcium	238		1	11.1	99.7	mg/Kg	07/10/25 10:15	07/11/25 02:15	6010D	SW3050
7440-47-3	Chromium	3.41		1	0.047	0.50	mg/Kg	07/10/25 10:15	07/11/25 02:15	6010D	SW3050
7440-48-4	Cobalt	1.10	J	1	0.10	1.50	mg/Kg	07/10/25 10:15	07/11/25 02:15	6010D	SW3050
7440-50-8	Copper	6.23		1	0.22	1.00	mg/Kg	07/10/25 10:15	07/11/25 02:15	6010D	SW3050
7439-89-6	Iron	15700		1	3.98	4.99	mg/Kg	07/10/25 10:15	07/11/25 02:15	6010D	SW3050
7439-92-1	Lead	4.31		1	0.13	0.60	mg/Kg	07/10/25 10:15	07/11/25 02:15	6010D	SW3050
7439-95-4	Magnesium	238		1	12.0	99.7	mg/Kg	07/10/25 10:15	07/11/25 02:15	6010D	SW3050
7439-96-5	Manganese	23.6		1	0.14	1.00	mg/Kg	07/10/25 10:15	07/11/25 02:15	6010D	SW3050
7439-97-6	Mercury	0.0080	UN	1	0.0080	0.014	mg/Kg	07/10/25 16:00	07/11/25 15:04	7471B	
7440-02-0	Nickel	1.99		1	0.13	1.99	mg/Kg	07/10/25 10:15	07/11/25 02:15	6010D	SW3050
7440-09-7	Potassium	203		1	27.6	99.7	mg/Kg	07/10/25 10:15	07/11/25 02:15	6010D	SW3050
7782-49-2	Selenium	0.26	UN	1	0.26	1.00	mg/Kg	07/10/25 10:15	07/11/25 02:15	6010D	SW3050
7440-22-4	Silver	0.12	U	1	0.12	0.50	mg/Kg	07/10/25 10:15	07/11/25 02:15	6010D	SW3050
7440-23-5	Sodium	559		1	17.7	99.7	mg/Kg	07/10/25 10:15	07/11/25 02:15	6010D	SW3050
7440-28-0	Thallium	0.58	J	1	0.23	1.99	mg/Kg	07/10/25 10:15	07/11/25 02:15	6010D	SW3050
7440-62-2	Vanadium	14.2	N	1	0.25	1.99	mg/Kg	07/10/25 10:15	07/11/25 02:15	6010D	SW3050
7440-66-6	Zinc	9.87		1	0.23	1.99	mg/Kg	07/10/25 10:15	07/11/25 02:15	6010D	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23-99	SDG No.:	Q2543
Lab Sample ID:	Q2543-04	Matrix:	SOIL
Level (low/med):	low	% Solid:	85.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	3400		1	0.86	5.11	mg/Kg	07/10/25 10:15	07/11/25 02:19	6010D	SW3050
7440-36-0	Antimony	0.23	UN	1	0.23	2.56	mg/Kg	07/10/25 10:15	07/11/25 02:19	6010D	SW3050
7440-38-2	Arsenic	2.44		1	0.19	1.02	mg/Kg	07/10/25 10:15	07/11/25 02:19	6010D	SW3050
7440-39-3	Barium	7.93	N	1	0.75	5.11	mg/Kg	07/10/25 10:15	07/11/25 02:19	6010D	SW3050
7440-41-7	Beryllium	0.39		1	0.026	0.31	mg/Kg	07/10/25 10:15	07/11/25 02:19	6010D	SW3050
7440-43-9	Cadmium	0.025	U	1	0.025	0.31	mg/Kg	07/10/25 10:15	07/11/25 02:19	6010D	SW3050
7440-70-2	Calcium	120		1	11.4	102	mg/Kg	07/10/25 10:15	07/11/25 02:19	6010D	SW3050
7440-47-3	Chromium	4.73		1	0.048	0.51	mg/Kg	07/10/25 10:15	07/11/25 02:19	6010D	SW3050
7440-48-4	Cobalt	1.09	J	1	0.10	1.53	mg/Kg	07/10/25 10:15	07/11/25 02:19	6010D	SW3050
7440-50-8	Copper	6.28		1	0.23	1.02	mg/Kg	07/10/25 10:15	07/11/25 02:19	6010D	SW3050
7439-89-6	Iron	12400		1	4.08	5.11	mg/Kg	07/10/25 10:15	07/11/25 02:19	6010D	SW3050
7439-92-1	Lead	5.18		1	0.13	0.61	mg/Kg	07/10/25 10:15	07/11/25 02:19	6010D	SW3050
7439-95-4	Magnesium	244		1	12.3	102	mg/Kg	07/10/25 10:15	07/11/25 02:19	6010D	SW3050
7439-96-5	Manganese	17.2		1	0.14	1.02	mg/Kg	07/10/25 10:15	07/11/25 02:19	6010D	SW3050
7439-97-6	Mercury	0.0090	UN	1	0.0090	0.016	mg/Kg	07/10/25 16:00	07/11/25 15:06	7471B	
7440-02-0	Nickel	2.17		1	0.13	2.05	mg/Kg	07/10/25 10:15	07/11/25 02:19	6010D	SW3050
7440-09-7	Potassium	170		1	28.3	102	mg/Kg	07/10/25 10:15	07/11/25 02:19	6010D	SW3050
7782-49-2	Selenium	0.27	UN	1	0.27	1.02	mg/Kg	07/10/25 10:15	07/11/25 02:19	6010D	SW3050
7440-22-4	Silver	0.12	U	1	0.12	0.51	mg/Kg	07/10/25 10:15	07/11/25 02:19	6010D	SW3050
7440-23-5	Sodium	415		1	18.2	102	mg/Kg	07/10/25 10:15	07/11/25 02:19	6010D	SW3050
7440-28-0	Thallium	0.38	J	1	0.24	2.05	mg/Kg	07/10/25 10:15	07/11/25 02:19	6010D	SW3050
7440-62-2	Vanadium	13.8	N	1	0.26	2.05	mg/Kg	07/10/25 10:15	07/11/25 02:19	6010D	SW3050
7440-66-6	Zinc	9.37		1	0.24	2.05	mg/Kg	07/10/25 10:15	07/11/25 02:19	6010D	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

METAL CALIBRATION DATA

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2543

Contract: CAMP02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV25	Mercury	3.77	4.0	94	90 - 110	CV	07/11/2025	14:13	LB136438

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2543

Contract: CAMP02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV82	Mercury	5.49	5.0	110	90 - 110	CV	07/11/2025	14:18	LB136438
CCV83	Mercury	4.89	5.0	98	90 - 110	CV	07/11/2025	14:56	LB136438
CCV84	Mercury	5.25	5.0	105	90 - 110	CV	07/11/2025	15:26	LB136438
CCV85	Mercury	4.73	5.0	95	90 - 110	CV	07/11/2025	16:02	LB136438
CCV86	Mercury	4.75	5.0	95	90 - 110	CV	07/11/2025	16:32	LB136438

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2543

Contract: CAMP02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	8020	8000	100	90 - 110	P	07/10/2025	17:52	LB136428
	Antimony	4080	4000	102	90 - 110	P	07/10/2025	17:52	LB136428
	Arsenic	3860	4000	97	90 - 110	P	07/10/2025	17:52	LB136428
	Barium	7860	8000	98	90 - 110	P	07/10/2025	17:52	LB136428
	Beryllium	199	200	99	90 - 110	P	07/10/2025	17:52	LB136428
	Cadmium	1910	2000	95	90 - 110	P	07/10/2025	17:52	LB136428
	Calcium	19600	20000	98	90 - 110	P	07/10/2025	17:52	LB136428
	Chromium	790	800	99	90 - 110	P	07/10/2025	17:52	LB136428
	Cobalt	1940	2000	97	90 - 110	P	07/10/2025	17:52	LB136428
	Copper	996	1000	100	90 - 110	P	07/10/2025	17:52	LB136428
	Iron	3980	4000	99	90 - 110	P	07/10/2025	17:52	LB136428
	Lead	3760	4000	94	90 - 110	P	07/10/2025	17:52	LB136428
	Magnesium	19700	20000	99	90 - 110	P	07/10/2025	17:52	LB136428
	Manganese	1970	2000	98	90 - 110	P	07/10/2025	17:52	LB136428
	Nickel	1940	2000	97	90 - 110	P	07/10/2025	17:52	LB136428
	Potassium	20000	20000	100	90 - 110	P	07/10/2025	17:52	LB136428
	Selenium	3930	4000	98	90 - 110	P	07/10/2025	17:52	LB136428
	Silver	1040	1000	104	90 - 110	P	07/10/2025	17:52	LB136428
	Sodium	20100	20000	100	90 - 110	P	07/10/2025	17:52	LB136428
	Thallium	3840	4000	96	90 - 110	P	07/10/2025	17:52	LB136428
	Vanadium	2000	2000	100	90 - 110	P	07/10/2025	17:52	LB136428
	Zinc	1990	2000	100	90 - 110	P	07/10/2025	17:52	LB136428

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2543

Contract: CAMP02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	99.6	100	100	80 - 120	P	07/10/2025	18:01	LB136428
	Antimony	53.1	50.0	106	80 - 120	P	07/10/2025	18:01	LB136428
	Arsenic	22.0	20.0	110	80 - 120	P	07/10/2025	18:01	LB136428
	Barium	99.7	100	100	80 - 120	P	07/10/2025	18:01	LB136428
	Beryllium	6.18	6.0	103	80 - 120	P	07/10/2025	18:01	LB136428
	Cadmium	5.90	6.0	98	80 - 120	P	07/10/2025	18:01	LB136428
	Calcium	2020	2000	101	80 - 120	P	07/10/2025	18:01	LB136428
	Chromium	10.4	10.0	104	80 - 120	P	07/10/2025	18:01	LB136428
	Cobalt	29.8	30.0	99	80 - 120	P	07/10/2025	18:01	LB136428
	Copper	21.9	20.0	109	80 - 120	P	07/10/2025	18:01	LB136428
	Iron	99.3	100	99	80 - 120	P	07/10/2025	18:01	LB136428
	Lead	10.9	12.0	91	80 - 120	P	07/10/2025	18:01	LB136428
	Magnesium	2190	2000	109	80 - 120	P	07/10/2025	18:01	LB136428
	Manganese	22.4	20.0	112	80 - 120	P	07/10/2025	18:01	LB136428
	Nickel	40.3	40.0	101	80 - 120	P	07/10/2025	18:01	LB136428
	Potassium	1920	2000	96	80 - 120	P	07/10/2025	18:01	LB136428
	Selenium	23.3	20.0	116	80 - 120	P	07/10/2025	18:01	LB136428
	Silver	8.23	10.0	82	80 - 120	P	07/10/2025	18:01	LB136428
	Sodium	1980	2000	99	80 - 120	P	07/10/2025	18:01	LB136428
	Thallium	40.9	40.0	102	80 - 120	P	07/10/2025	18:01	LB136428
	Vanadium	41.3	40.0	103	80 - 120	P	07/10/2025	18:01	LB136428
	Zinc	40.9	40.0	102	80 - 120	P	07/10/2025	18:01	LB136428

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2543

Contract: CAMP02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	10000	10000	100	90 - 110	P	07/10/2025	18:40	LB136428
	Antimony	5060	5000	101	90 - 110	P	07/10/2025	18:40	LB136428
	Arsenic	5090	5000	102	90 - 110	P	07/10/2025	18:40	LB136428
	Barium	9970	10000	100	90 - 110	P	07/10/2025	18:40	LB136428
	Beryllium	249	250	100	90 - 110	P	07/10/2025	18:40	LB136428
	Cadmium	2520	2500	101	90 - 110	P	07/10/2025	18:40	LB136428
	Calcium	25100	25000	100	90 - 110	P	07/10/2025	18:40	LB136428
	Chromium	1020	1000	102	90 - 110	P	07/10/2025	18:40	LB136428
	Cobalt	2500	2500	100	90 - 110	P	07/10/2025	18:40	LB136428
	Copper	1270	1250	101	90 - 110	P	07/10/2025	18:40	LB136428
	Iron	5030	5000	101	90 - 110	P	07/10/2025	18:40	LB136428
	Lead	4990	5000	100	90 - 110	P	07/10/2025	18:40	LB136428
	Magnesium	25000	25000	100	90 - 110	P	07/10/2025	18:40	LB136428
	Manganese	2540	2500	102	90 - 110	P	07/10/2025	18:40	LB136428
	Nickel	2510	2500	101	90 - 110	P	07/10/2025	18:40	LB136428
	Potassium	26100	25000	104	90 - 110	P	07/10/2025	18:40	LB136428
	Selenium	5090	5000	102	90 - 110	P	07/10/2025	18:40	LB136428
	Silver	1250	1250	100	90 - 110	P	07/10/2025	18:40	LB136428
	Sodium	26200	25000	105	90 - 110	P	07/10/2025	18:40	LB136428
	Thallium	5180	5000	104	90 - 110	P	07/10/2025	18:40	LB136428
	Vanadium	2510	2500	100	90 - 110	P	07/10/2025	18:40	LB136428
	Zinc	2600	2500	104	90 - 110	P	07/10/2025	18:40	LB136428
CCV02	Aluminum	9920	10000	99	90 - 110	P	07/10/2025	19:30	LB136428
	Antimony	5080	5000	102	90 - 110	P	07/10/2025	19:30	LB136428
	Arsenic	5100	5000	102	90 - 110	P	07/10/2025	19:30	LB136428
	Barium	9740	10000	97	90 - 110	P	07/10/2025	19:30	LB136428
	Beryllium	245	250	98	90 - 110	P	07/10/2025	19:30	LB136428
	Cadmium	2510	2500	100	90 - 110	P	07/10/2025	19:30	LB136428
	Calcium	24600	25000	99	90 - 110	P	07/10/2025	19:30	LB136428
	Chromium	1010	1000	101	90 - 110	P	07/10/2025	19:30	LB136428
	Cobalt	2500	2500	100	90 - 110	P	07/10/2025	19:30	LB136428
	Copper	1260	1250	101	90 - 110	P	07/10/2025	19:30	LB136428
	Iron	5070	5000	101	90 - 110	P	07/10/2025	19:30	LB136428
	Lead	4980	5000	100	90 - 110	P	07/10/2025	19:30	LB136428

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2543

Contract: CAMP02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	24500	25000	98	90 - 110	P	07/10/2025	19:30	LB136428
	Manganese	2500	2500	100	90 - 110	P	07/10/2025	19:30	LB136428
	Nickel	2500	2500	100	90 - 110	P	07/10/2025	19:30	LB136428
	Potassium	27000	25000	108	90 - 110	P	07/10/2025	19:30	LB136428
	Selenium	5120	5000	102	90 - 110	P	07/10/2025	19:30	LB136428
	Silver	1260	1250	101	90 - 110	P	07/10/2025	19:30	LB136428
	Sodium	27100	25000	108	90 - 110	P	07/10/2025	19:30	LB136428
	Thallium	5110	5000	102	90 - 110	P	07/10/2025	19:30	LB136428
	Vanadium	2470	2500	99	90 - 110	P	07/10/2025	19:30	LB136428
	Zinc	2630	2500	105	90 - 110	P	07/10/2025	19:30	LB136428
CCV03	Aluminum	9760	10000	98	90 - 110	P	07/10/2025	20:22	LB136428
	Antimony	4980	5000	100	90 - 110	P	07/10/2025	20:22	LB136428
	Arsenic	5000	5000	100	90 - 110	P	07/10/2025	20:22	LB136428
	Barium	9530	10000	95	90 - 110	P	07/10/2025	20:22	LB136428
	Beryllium	241	250	96	90 - 110	P	07/10/2025	20:22	LB136428
	Cadmium	2460	2500	99	90 - 110	P	07/10/2025	20:22	LB136428
	Calcium	24300	25000	97	90 - 110	P	07/10/2025	20:22	LB136428
	Chromium	1000	1000	100	90 - 110	P	07/10/2025	20:22	LB136428
	Cobalt	2450	2500	98	90 - 110	P	07/10/2025	20:22	LB136428
	Copper	1240	1250	99	90 - 110	P	07/10/2025	20:22	LB136428
	Iron	4890	5000	98	90 - 110	P	07/10/2025	20:22	LB136428
	Lead	4890	5000	98	90 - 110	P	07/10/2025	20:22	LB136428
	Magnesium	24200	25000	97	90 - 110	P	07/10/2025	20:22	LB136428
	Manganese	2480	2500	99	90 - 110	P	07/10/2025	20:22	LB136428
	Nickel	2450	2500	98	90 - 110	P	07/10/2025	20:22	LB136428
	Potassium	25700	25000	103	90 - 110	P	07/10/2025	20:22	LB136428
	Selenium	4990	5000	100	90 - 110	P	07/10/2025	20:22	LB136428
	Silver	1240	1250	99	90 - 110	P	07/10/2025	20:22	LB136428
	Sodium	23800	25000	95	90 - 110	P	07/10/2025	20:22	LB136428
	Thallium	5120	5000	102	90 - 110	P	07/10/2025	20:22	LB136428
	Vanadium	2440	2500	98	90 - 110	P	07/10/2025	20:22	LB136428
	Zinc	2590	2500	104	90 - 110	P	07/10/2025	20:22	LB136428
CCV04	Aluminum	9820	10000	98	90 - 110	P	07/10/2025	21:27	LB136428
	Antimony	4960	5000	99	90 - 110	P	07/10/2025	21:27	LB136428

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2543

Contract: CAMP02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Arsenic	4990	5000	100	90 - 110	P	07/10/2025	21:27	LB136428
	Barium	9610	10000	96	90 - 110	P	07/10/2025	21:27	LB136428
	Beryllium	247	250	99	90 - 110	P	07/10/2025	21:27	LB136428
	Cadmium	2470	2500	99	90 - 110	P	07/10/2025	21:27	LB136428
	Calcium	24300	25000	97	90 - 110	P	07/10/2025	21:27	LB136428
	Chromium	1010	1000	101	90 - 110	P	07/10/2025	21:27	LB136428
	Cobalt	2450	2500	98	90 - 110	P	07/10/2025	21:27	LB136428
	Copper	1240	1250	99	90 - 110	P	07/10/2025	21:27	LB136428
	Iron	4880	5000	98	90 - 110	P	07/10/2025	21:27	LB136428
	Lead	4880	5000	98	90 - 110	P	07/10/2025	21:27	LB136428
	Magnesium	24100	25000	96	90 - 110	P	07/10/2025	21:27	LB136428
	Manganese	2480	2500	99	90 - 110	P	07/10/2025	21:27	LB136428
	Nickel	2460	2500	98	90 - 110	P	07/10/2025	21:27	LB136428
	Potassium	26300	25000	105	90 - 110	P	07/10/2025	21:27	LB136428
	Selenium	4990	5000	100	90 - 110	P	07/10/2025	21:27	LB136428
	Silver	1240	1250	99	90 - 110	P	07/10/2025	21:27	LB136428
	Sodium	24900	25000	100	90 - 110	P	07/10/2025	21:27	LB136428
	Thallium	5140	5000	103	90 - 110	P	07/10/2025	21:27	LB136428
	Vanadium	2440	2500	98	90 - 110	P	07/10/2025	21:27	LB136428
	Zinc	2650	2500	106	90 - 110	P	07/10/2025	21:27	LB136428
CCV05	Aluminum	9670	10000	97	90 - 110	P	07/10/2025	22:25	LB136428
	Antimony	4960	5000	99	90 - 110	P	07/10/2025	22:25	LB136428
	Arsenic	4990	5000	100	90 - 110	P	07/10/2025	22:25	LB136428
	Barium	9580	10000	96	90 - 110	P	07/10/2025	22:25	LB136428
	Beryllium	244	250	98	90 - 110	P	07/10/2025	22:25	LB136428
	Cadmium	2460	2500	98	90 - 110	P	07/10/2025	22:25	LB136428
	Calcium	24100	25000	96	90 - 110	P	07/10/2025	22:25	LB136428
	Chromium	992	1000	99	90 - 110	P	07/10/2025	22:25	LB136428
	Cobalt	2440	2500	98	90 - 110	P	07/10/2025	22:25	LB136428
	Copper	1230	1250	99	90 - 110	P	07/10/2025	22:25	LB136428
	Iron	4810	5000	96	90 - 110	P	07/10/2025	22:25	LB136428
	Lead	4880	5000	98	90 - 110	P	07/10/2025	22:25	LB136428
	Magnesium	23900	25000	96	90 - 110	P	07/10/2025	22:25	LB136428
	Manganese	2450	2500	98	90 - 110	P	07/10/2025	22:25	LB136428

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2543

Contract: CAMP02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Nickel	2450	2500	98	90 - 110	P	07/10/2025	22:25	LB136428
	Potassium	26500	25000	106	90 - 110	P	07/10/2025	22:25	LB136428
	Selenium	4970	5000	99	90 - 110	P	07/10/2025	22:25	LB136428
	Silver	1230	1250	98	90 - 110	P	07/10/2025	22:25	LB136428
	Sodium	25900	25000	104	90 - 110	P	07/10/2025	22:25	LB136428
	Thallium	4920	5000	98	90 - 110	P	07/10/2025	22:25	LB136428
	Vanadium	2410	2500	96	90 - 110	P	07/10/2025	22:25	LB136428
	Zinc	2690	2500	108	90 - 110	P	07/10/2025	22:25	LB136428
CCV06	Aluminum	9610	10000	96	90 - 110	P	07/10/2025	23:27	LB136428
	Antimony	4820	5000	96	90 - 110	P	07/10/2025	23:27	LB136428
	Arsenic	4850	5000	97	90 - 110	P	07/10/2025	23:27	LB136428
	Barium	9580	10000	96	90 - 110	P	07/10/2025	23:27	LB136428
	Beryllium	246	250	98	90 - 110	P	07/10/2025	23:27	LB136428
	Cadmium	2430	2500	97	90 - 110	P	07/10/2025	23:27	LB136428
	Calcium	24000	25000	96	90 - 110	P	07/10/2025	23:27	LB136428
	Chromium	984	1000	98	90 - 110	P	07/10/2025	23:27	LB136428
	Cobalt	2410	2500	96	90 - 110	P	07/10/2025	23:27	LB136428
	Copper	1210	1250	97	90 - 110	P	07/10/2025	23:27	LB136428
	Iron	4640	5000	93	90 - 110	P	07/10/2025	23:27	LB136428
	Lead	4810	5000	96	90 - 110	P	07/10/2025	23:27	LB136428
	Magnesium	23900	25000	96	90 - 110	P	07/10/2025	23:27	LB136428
	Manganese	2450	2500	98	90 - 110	P	07/10/2025	23:27	LB136428
	Nickel	2410	2500	96	90 - 110	P	07/10/2025	23:27	LB136428
	Potassium	25000	25000	100	90 - 110	P	07/10/2025	23:27	LB136428
	Selenium	4820	5000	96	90 - 110	P	07/10/2025	23:27	LB136428
	Silver	1210	1250	96	90 - 110	P	07/10/2025	23:27	LB136428
	Sodium	26100	25000	104	90 - 110	P	07/10/2025	23:27	LB136428
	Thallium	4850	5000	97	90 - 110	P	07/10/2025	23:27	LB136428
	Vanadium	2390	2500	95	90 - 110	P	07/10/2025	23:27	LB136428
	Zinc	2660	2500	106	90 - 110	P	07/10/2025	23:27	LB136428
CCV07	Aluminum	9660	10000	97	90 - 110	P	07/11/2025	00:18	LB136428
	Antimony	4870	5000	98	90 - 110	P	07/11/2025	00:18	LB136428
	Arsenic	4890	5000	98	90 - 110	P	07/11/2025	00:18	LB136428
	Barium	9630	10000	96	90 - 110	P	07/11/2025	00:18	LB136428

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2543

Contract: CAMP02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV07	Beryllium	246	250	98	90 - 110	P	07/11/2025	00:18	LB136428
	Cadmium	2440	2500	98	90 - 110	P	07/11/2025	00:18	LB136428
	Calcium	24000	25000	96	90 - 110	P	07/11/2025	00:18	LB136428
	Chromium	987	1000	99	90 - 110	P	07/11/2025	00:18	LB136428
	Cobalt	2420	2500	97	90 - 110	P	07/11/2025	00:18	LB136428
	Copper	1220	1250	98	90 - 110	P	07/11/2025	00:18	LB136428
	Iron	4830	5000	97	90 - 110	P	07/11/2025	00:18	LB136428
	Lead	4840	5000	97	90 - 110	P	07/11/2025	00:18	LB136428
	Magnesium	24000	25000	96	90 - 110	P	07/11/2025	00:18	LB136428
	Manganese	2450	2500	98	90 - 110	P	07/11/2025	00:18	LB136428
	Nickel	2420	2500	97	90 - 110	P	07/11/2025	00:18	LB136428
	Potassium	25700	25000	103	90 - 110	P	07/11/2025	00:18	LB136428
	Selenium	4860	5000	97	90 - 110	P	07/11/2025	00:18	LB136428
	Silver	1210	1250	97	90 - 110	P	07/11/2025	00:18	LB136428
	Sodium	24800	25000	99	90 - 110	P	07/11/2025	00:18	LB136428
	Thallium	4830	5000	97	90 - 110	P	07/11/2025	00:18	LB136428
	Vanadium	2400	2500	96	90 - 110	P	07/11/2025	00:18	LB136428
	Zinc	2690	2500	108	90 - 110	P	07/11/2025	00:18	LB136428
CCV08	Aluminum	9610	10000	96	90 - 110	P	07/11/2025	01:09	LB136428
	Antimony	4820	5000	96	90 - 110	P	07/11/2025	01:09	LB136428
	Arsenic	4840	5000	97	90 - 110	P	07/11/2025	01:09	LB136428
	Barium	9520	10000	95	90 - 110	P	07/11/2025	01:09	LB136428
	Beryllium	247	250	99	90 - 110	P	07/11/2025	01:09	LB136428
	Cadmium	2440	2500	98	90 - 110	P	07/11/2025	01:09	LB136428
	Calcium	24100	25000	96	90 - 110	P	07/11/2025	01:09	LB136428
	Chromium	988	1000	99	90 - 110	P	07/11/2025	01:09	LB136428
	Cobalt	2430	2500	97	90 - 110	P	07/11/2025	01:09	LB136428
	Copper	1220	1250	97	90 - 110	P	07/11/2025	01:09	LB136428
	Iron	4700	5000	94	90 - 110	P	07/11/2025	01:09	LB136428
	Lead	4830	5000	97	90 - 110	P	07/11/2025	01:09	LB136428
	Magnesium	24200	25000	97	90 - 110	P	07/11/2025	01:09	LB136428
	Manganese	2460	2500	98	90 - 110	P	07/11/2025	01:09	LB136428
	Nickel	2420	2500	97	90 - 110	P	07/11/2025	01:09	LB136428
	Potassium	25400	25000	102	90 - 110	P	07/11/2025	01:09	LB136428

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2543

Contract: CAMP02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV08	Selenium	4790	5000	96	90 - 110	P	07/11/2025	01:09	LB136428
	Silver	1200	1250	96	90 - 110	P	07/11/2025	01:09	LB136428
	Sodium	24800	25000	99	90 - 110	P	07/11/2025	01:09	LB136428
	Thallium	4740	5000	95	90 - 110	P	07/11/2025	01:09	LB136428
	Vanadium	2410	2500	96	90 - 110	P	07/11/2025	01:09	LB136428
	Zinc	2710	2500	108	90 - 110	P	07/11/2025	01:09	LB136428
CCV09	Aluminum	9630	10000	96	90 - 110	P	07/11/2025	01:58	LB136428
	Antimony	4790	5000	96	90 - 110	P	07/11/2025	01:58	LB136428
	Arsenic	4830	5000	97	90 - 110	P	07/11/2025	01:58	LB136428
	Barium	9590	10000	96	90 - 110	P	07/11/2025	01:58	LB136428
	Beryllium	257	250	103	90 - 110	P	07/11/2025	01:58	LB136428
	Cadmium	2450	2500	98	90 - 110	P	07/11/2025	01:58	LB136428
	Calcium	24100	25000	96	90 - 110	P	07/11/2025	01:58	LB136428
	Chromium	999	1000	100	90 - 110	P	07/11/2025	01:58	LB136428
	Cobalt	2430	2500	97	90 - 110	P	07/11/2025	01:58	LB136428
	Copper	1220	1250	97	90 - 110	P	07/11/2025	01:58	LB136428
	Iron	4670	5000	93	90 - 110	P	07/11/2025	01:58	LB136428
	Lead	4860	5000	97	90 - 110	P	07/11/2025	01:58	LB136428
	Magnesium	24500	25000	98	90 - 110	P	07/11/2025	01:58	LB136428
	Manganese	2480	2500	99	90 - 110	P	07/11/2025	01:58	LB136428
	Nickel	2430	2500	97	90 - 110	P	07/11/2025	01:58	LB136428
	Potassium	25100	25000	100	90 - 110	P	07/11/2025	01:58	LB136428
	Selenium	4790	5000	96	90 - 110	P	07/11/2025	01:58	LB136428
	Silver	1220	1250	98	90 - 110	P	07/11/2025	01:58	LB136428
	Sodium	24700	25000	99	90 - 110	P	07/11/2025	01:58	LB136428
	Thallium	4980	5000	100	90 - 110	P	07/11/2025	01:58	LB136428
	Vanadium	2420	2500	97	90 - 110	P	07/11/2025	01:58	LB136428
	Zinc	2740	2500	110	90 - 110	P	07/11/2025	01:58	LB136428
CCV10	Aluminum	9600	10000	96	90 - 110	P	07/11/2025	02:36	LB136428
	Antimony	4790	5000	96	90 - 110	P	07/11/2025	02:36	LB136428
	Arsenic	4840	5000	97	90 - 110	P	07/11/2025	02:36	LB136428
	Barium	9510	10000	95	90 - 110	P	07/11/2025	02:36	LB136428
	Beryllium	257	250	103	90 - 110	P	07/11/2025	02:36	LB136428
	Cadmium	2440	2500	97	90 - 110	P	07/11/2025	02:36	LB136428

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2543

Contract: CAMP02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV10	Calcium	24000	25000	96	90 - 110	P	07/11/2025	02:36	LB136428
	Chromium	991	1000	99	90 - 110	P	07/11/2025	02:36	LB136428
	Cobalt	2420	2500	97	90 - 110	P	07/11/2025	02:36	LB136428
	Copper	1210	1250	97	90 - 110	P	07/11/2025	02:36	LB136428
	Iron	4680	5000	94	90 - 110	P	07/11/2025	02:36	LB136428
	Lead	4840	5000	97	90 - 110	P	07/11/2025	02:36	LB136428
	Magnesium	24400	25000	98	90 - 110	P	07/11/2025	02:36	LB136428
	Manganese	2470	2500	99	90 - 110	P	07/11/2025	02:36	LB136428
	Nickel	2410	2500	97	90 - 110	P	07/11/2025	02:36	LB136428
	Potassium	24800	25000	99	90 - 110	P	07/11/2025	02:36	LB136428
	Selenium	4810	5000	96	90 - 110	P	07/11/2025	02:36	LB136428
	Silver	1210	1250	96	90 - 110	P	07/11/2025	02:36	LB136428
	Sodium	26700	25000	107	90 - 110	P	07/11/2025	02:36	LB136428
	Thallium	4960	5000	99	90 - 110	P	07/11/2025	02:36	LB136428
	Vanadium	2410	2500	96	90 - 110	P	07/11/2025	02:36	LB136428
	Zinc	2720	2500	109	90 - 110	P	07/11/2025	02:36	LB136428

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Metals

- 2b -
CRDL STANDARD FOR AA & ICP

Client: CDM Smith **SDG No.:** Q2543

Contract: CAMP02 **Lab Code:** ACE

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Aluminum	94.2	100	94	65 - 135	P	07/10/2025	18:09	LB136428
	Antimony	50.0	50.0	100	65 - 135	P	07/10/2025	18:09	LB136428
	Arsenic	22.0	20.0	110	65 - 135	P	07/10/2025	18:09	LB136428
	Barium	101	100	101	65 - 135	P	07/10/2025	18:09	LB136428
	Beryllium	6.42	6.0	107	65 - 135	P	07/10/2025	18:09	LB136428
	Cadmium	5.94	6.0	99	65 - 135	P	07/10/2025	18:09	LB136428
	Calcium	2050	2000	102	65 - 135	P	07/10/2025	18:09	LB136428
	Chromium	10.7	10.0	106	65 - 135	P	07/10/2025	18:09	LB136428
	Cobalt	29.8	30.0	99	65 - 135	P	07/10/2025	18:09	LB136428
	Copper	21.9	20.0	109	65 - 135	P	07/10/2025	18:09	LB136428
	Iron	104	100	104	65 - 135	P	07/10/2025	18:09	LB136428
	Lead	11.2	12.0	93	65 - 135	P	07/10/2025	18:09	LB136428
	Magnesium	2230	2000	111	65 - 135	P	07/10/2025	18:09	LB136428
	Manganese	22.1	20.0	110	65 - 135	P	07/10/2025	18:09	LB136428
	Nickel	40.6	40.0	102	65 - 135	P	07/10/2025	18:09	LB136428
	Potassium	1860	2000	93	65 - 135	P	07/10/2025	18:09	LB136428
	Selenium	24.0	20.0	120	65 - 135	P	07/10/2025	18:09	LB136428
	Silver	8.69	10.0	87	65 - 135	P	07/10/2025	18:09	LB136428
	Sodium	1960	2000	98	65 - 135	P	07/10/2025	18:09	LB136428
	Thallium	45.3	40.0	113	65 - 135	P	07/10/2025	18:09	LB136428
	Vanadium	41.0	40.0	102	65 - 135	P	07/10/2025	18:09	LB136428
	Zinc	40.7	40.0	102	65 - 135	P	07/10/2025	18:09	LB136428
CRA	Mercury	0.23	0.2	116	70 - 130	CV	07/11/2025	14:28	LB136438

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2543

Contract: CAMP02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB25	Mercury	0.076	+/-0.2	U	0.20	CV	07/11/2025	14:15	LB136438

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2543

Contract: CAMP02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB82	Mercury	0.076	+/-0.2	U	0.20	CV	07/11/2025	14:25	LB136438
CCB83	Mercury	0.076	+/-0.2	U	0.20	CV	07/11/2025	15:01	LB136438
CCB84	Mercury	0.076	+/-0.2	U	0.20	CV	07/11/2025	15:29	LB136438
CCB85	Mercury	0.076	+/-0.2	U	0.20	CV	07/11/2025	16:04	LB136438
CCB86	Mercury	0.076	+/-0.2	U	0.20	CV	07/11/2025	16:34	LB136438

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2543

Contract: CAMP02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	11.3	+/-50	U	100	P	07/10/2025	18:05	LB136428
	Antimony	6.76	+/-25	U	50.0	P	07/10/2025	18:05	LB136428
	Arsenic	5.12	+/-10	U	20.0	P	07/10/2025	18:05	LB136428
	Barium	14.6	+/-50	U	100	P	07/10/2025	18:05	LB136428
	Beryllium	0.56	+/-3	U	6.00	P	07/10/2025	18:05	LB136428
	Cadmium	0.50	+/-3	U	6.00	P	07/10/2025	18:05	LB136428
	Calcium	234	+/-1000	U	2000	P	07/10/2025	18:05	LB136428
	Chromium	2.12	+/-5	U	10.0	P	07/10/2025	18:05	LB136428
	Cobalt	2.26	+/-15	U	30.0	P	07/10/2025	18:05	LB136428
	Copper	4.60	+/-10	U	20.0	P	07/10/2025	18:05	LB136428
	Iron	23.4	+/-50	U	100	P	07/10/2025	18:05	LB136428
	Lead	2.30	+/-6	U	12.0	P	07/10/2025	18:05	LB136428
	Magnesium	244	+/-1000	U	2000	P	07/10/2025	18:05	LB136428
	Manganese	5.94	+/-10	U	20.0	P	07/10/2025	18:05	LB136428
	Nickel	3.06	+/-20	U	40.0	P	07/10/2025	18:05	LB136428
	Potassium	918	+/-1000	U	2000	P	07/10/2025	18:05	LB136428
	Selenium	9.64	+/-10	U	20.0	P	07/10/2025	18:05	LB136428
	Silver	1.62	+/-5	U	10.0	P	07/10/2025	18:05	LB136428
	Sodium	868	+/-1000	U	2000	P	07/10/2025	18:05	LB136428
	Thallium	4.38	+/-20	U	40.0	P	07/10/2025	18:05	LB136428
	Vanadium	6.26	+/-20	U	40.0	P	07/10/2025	18:05	LB136428
	Zinc	16.7	+/-20	U	40.0	P	07/10/2025	18:05	LB136428

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2543

Contract: CAMP02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	11.3	+/-50	U	100	P	07/10/2025	18:44	LB136428
	Antimony	6.76	+/-25	U	50.0	P	07/10/2025	18:44	LB136428
	Arsenic	5.12	+/-10	U	20.0	P	07/10/2025	18:44	LB136428
	Barium	14.6	+/-50	U	100	P	07/10/2025	18:44	LB136428
	Beryllium	0.56	+/-3	U	6.00	P	07/10/2025	18:44	LB136428
	Cadmium	0.50	+/-3	U	6.00	P	07/10/2025	18:44	LB136428
	Calcium	234	+/-1000	U	2000	P	07/10/2025	18:44	LB136428
	Chromium	2.12	+/-5	U	10.0	P	07/10/2025	18:44	LB136428
	Cobalt	2.26	+/-15	U	30.0	P	07/10/2025	18:44	LB136428
	Copper	4.60	+/-10	U	20.0	P	07/10/2025	18:44	LB136428
	Iron	23.4	+/-50	U	100	P	07/10/2025	18:44	LB136428
	Lead	2.30	+/-6	U	12.0	P	07/10/2025	18:44	LB136428
	Magnesium	244	+/-1000	U	2000	P	07/10/2025	18:44	LB136428
	Manganese	5.94	+/-10	U	20.0	P	07/10/2025	18:44	LB136428
	Nickel	3.06	+/-20	U	40.0	P	07/10/2025	18:44	LB136428
	Potassium	918	+/-1000	U	2000	P	07/10/2025	18:44	LB136428
	Selenium	9.64	+/-10	U	20.0	P	07/10/2025	18:44	LB136428
	Silver	1.62	+/-5	U	10.0	P	07/10/2025	18:44	LB136428
	Sodium	868	+/-1000	U	2000	P	07/10/2025	18:44	LB136428
	Thallium	4.38	+/-20	U	40.0	P	07/10/2025	18:44	LB136428
	Vanadium	6.26	+/-20	U	40.0	P	07/10/2025	18:44	LB136428
	Zinc	16.7	+/-20	U	40.0	P	07/10/2025	18:44	LB136428
CCB02	Aluminum	11.3	+/-50	U	100	P	07/10/2025	19:34	LB136428
	Antimony	6.76	+/-25	U	50.0	P	07/10/2025	19:34	LB136428
	Arsenic	5.12	+/-10	U	20.0	P	07/10/2025	19:34	LB136428
	Barium	14.6	+/-50	U	100	P	07/10/2025	19:34	LB136428
	Beryllium	0.56	+/-3	U	6.00	P	07/10/2025	19:34	LB136428
	Cadmium	0.50	+/-3	U	6.00	P	07/10/2025	19:34	LB136428
	Calcium	234	+/-1000	U	2000	P	07/10/2025	19:34	LB136428
	Chromium	2.12	+/-5	U	10.0	P	07/10/2025	19:34	LB136428
	Cobalt	2.26	+/-15	U	30.0	P	07/10/2025	19:34	LB136428
	Copper	4.60	+/-10	U	20.0	P	07/10/2025	19:34	LB136428
	Iron	23.4	+/-50	U	100	P	07/10/2025	19:34	LB136428
	Lead	2.30	+/-6	U	12.0	P	07/10/2025	19:34	LB136428
	Magnesium	244	+/-1000	U	2000	P	07/10/2025	19:34	LB136428
	Manganese	5.94	+/-10	U	20.0	P	07/10/2025	19:34	LB136428
	Nickel	3.06	+/-20	U	40.0	P	07/10/2025	19:34	LB136428
	Potassium	918	+/-1000	U	2000	P	07/10/2025	19:34	LB136428
	Selenium	9.64	+/-10	U	20.0	P	07/10/2025	19:34	LB136428

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2543

Contract: CAMP02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	1.62	+/-5	U	10.0	P	07/10/2025	19:34	LB136428
	Sodium	868	+/-1000	U	2000	P	07/10/2025	19:34	LB136428
	Thallium	4.38	+/-20	U	40.0	P	07/10/2025	19:34	LB136428
	Vanadium	6.26	+/-20	U	40.0	P	07/10/2025	19:34	LB136428
	Zinc	16.7	+/-20	U	40.0	P	07/10/2025	19:34	LB136428
CCB03	Aluminum	11.3	+/-50	U	100	P	07/10/2025	20:36	LB136428
	Antimony	6.76	+/-25	U	50.0	P	07/10/2025	20:36	LB136428
	Arsenic	5.12	+/-10	U	20.0	P	07/10/2025	20:36	LB136428
	Barium	14.6	+/-50	U	100	P	07/10/2025	20:36	LB136428
	Beryllium	0.56	+/-3	U	6.00	P	07/10/2025	20:36	LB136428
	Cadmium	0.50	+/-3	U	6.00	P	07/10/2025	20:36	LB136428
	Calcium	234	+/-1000	U	2000	P	07/10/2025	20:36	LB136428
	Chromium	2.12	+/-5	U	10.0	P	07/10/2025	20:36	LB136428
	Cobalt	2.26	+/-15	U	30.0	P	07/10/2025	20:36	LB136428
	Copper	4.60	+/-10	U	20.0	P	07/10/2025	20:36	LB136428
	Iron	23.4	+/-50	U	100	P	07/10/2025	20:36	LB136428
	Lead	2.30	+/-6	U	12.0	P	07/10/2025	20:36	LB136428
	Magnesium	244	+/-1000	U	2000	P	07/10/2025	20:36	LB136428
	Manganese	5.94	+/-10	U	20.0	P	07/10/2025	20:36	LB136428
	Nickel	3.06	+/-20	U	40.0	P	07/10/2025	20:36	LB136428
	Potassium	918	+/-1000	U	2000	P	07/10/2025	20:36	LB136428
	Selenium	9.64	+/-10	U	20.0	P	07/10/2025	20:36	LB136428
	Silver	1.62	+/-5	U	10.0	P	07/10/2025	20:36	LB136428
	Sodium	868	+/-1000	U	2000	P	07/10/2025	20:36	LB136428
	Thallium	4.38	+/-20	U	40.0	P	07/10/2025	20:36	LB136428
	Vanadium	6.26	+/-20	U	40.0	P	07/10/2025	20:36	LB136428
	Zinc	16.7	+/-20	U	40.0	P	07/10/2025	20:36	LB136428
CCB04	Aluminum	11.3	+/-50	U	100	P	07/10/2025	21:31	LB136428
	Antimony	6.76	+/-25	U	50.0	P	07/10/2025	21:31	LB136428
	Arsenic	5.12	+/-10	U	20.0	P	07/10/2025	21:31	LB136428
	Barium	14.6	+/-50	U	100	P	07/10/2025	21:31	LB136428
	Beryllium	0.56	+/-3	U	6.00	P	07/10/2025	21:31	LB136428
	Cadmium	0.50	+/-3	U	6.00	P	07/10/2025	21:31	LB136428
	Calcium	234	+/-1000	U	2000	P	07/10/2025	21:31	LB136428
	Chromium	2.12	+/-5	U	10.0	P	07/10/2025	21:31	LB136428
	Cobalt	2.26	+/-15	U	30.0	P	07/10/2025	21:31	LB136428
	Copper	4.60	+/-10	U	20.0	P	07/10/2025	21:31	LB136428
	Iron	23.4	+/-50	U	100	P	07/10/2025	21:31	LB136428
	Lead	2.30	+/-6	U	12.0	P	07/10/2025	21:31	LB136428

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2543

Contract: CAMP02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	244	+/-1000	U	2000	P	07/10/2025	21:31	LB136428
	Manganese	5.94	+/-10	U	20.0	P	07/10/2025	21:31	LB136428
	Nickel	3.06	+/-20	U	40.0	P	07/10/2025	21:31	LB136428
	Potassium	918	+/-1000	U	2000	P	07/10/2025	21:31	LB136428
	Selenium	9.64	+/-10	U	20.0	P	07/10/2025	21:31	LB136428
	Silver	1.62	+/-5	U	10.0	P	07/10/2025	21:31	LB136428
	Sodium	868	+/-1000	U	2000	P	07/10/2025	21:31	LB136428
	Thallium	4.38	+/-20	U	40.0	P	07/10/2025	21:31	LB136428
	Vanadium	6.26	+/-20	U	40.0	P	07/10/2025	21:31	LB136428
	Zinc	16.7	+/-20	U	40.0	P	07/10/2025	21:31	LB136428
CCB05	Aluminum	11.3	+/-50	U	100	P	07/10/2025	22:31	LB136428
	Antimony	6.76	+/-25	U	50.0	P	07/10/2025	22:31	LB136428
	Arsenic	5.12	+/-10	U	20.0	P	07/10/2025	22:31	LB136428
	Barium	14.6	+/-50	U	100	P	07/10/2025	22:31	LB136428
	Beryllium	0.56	+/-3	U	6.00	P	07/10/2025	22:31	LB136428
	Cadmium	0.50	+/-3	U	6.00	P	07/10/2025	22:31	LB136428
	Calcium	234	+/-1000	U	2000	P	07/10/2025	22:31	LB136428
	Chromium	2.12	+/-5	U	10.0	P	07/10/2025	22:31	LB136428
	Cobalt	2.26	+/-15	U	30.0	P	07/10/2025	22:31	LB136428
	Copper	4.60	+/-10	U	20.0	P	07/10/2025	22:31	LB136428
	Iron	23.4	+/-50	U	100	P	07/10/2025	22:31	LB136428
	Lead	2.30	+/-6	U	12.0	P	07/10/2025	22:31	LB136428
	Magnesium	244	+/-1000	U	2000	P	07/10/2025	22:31	LB136428
	Manganese	5.94	+/-10	U	20.0	P	07/10/2025	22:31	LB136428
	Nickel	3.06	+/-20	U	40.0	P	07/10/2025	22:31	LB136428
	Potassium	918	+/-1000	U	2000	P	07/10/2025	22:31	LB136428
	Selenium	9.64	+/-10	U	20.0	P	07/10/2025	22:31	LB136428
	Silver	1.62	+/-5	U	10.0	P	07/10/2025	22:31	LB136428
	Sodium	868	+/-1000	U	2000	P	07/10/2025	22:31	LB136428
	Thallium	4.38	+/-20	U	40.0	P	07/10/2025	22:31	LB136428
	Vanadium	6.26	+/-20	U	40.0	P	07/10/2025	22:31	LB136428
	Zinc	16.7	+/-20	U	40.0	P	07/10/2025	22:31	LB136428
CCB06	Aluminum	11.3	+/-50	U	100	P	07/10/2025	23:31	LB136428
	Antimony	6.76	+/-25	U	50.0	P	07/10/2025	23:31	LB136428
	Arsenic	5.12	+/-10	U	20.0	P	07/10/2025	23:31	LB136428
	Barium	14.6	+/-50	U	100	P	07/10/2025	23:31	LB136428
	Beryllium	0.56	+/-3	U	6.00	P	07/10/2025	23:31	LB136428
	Cadmium	0.50	+/-3	U	6.00	P	07/10/2025	23:31	LB136428
	Calcium	234	+/-1000	U	2000	P	07/10/2025	23:31	LB136428

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2543

Contract: CAMP02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	2.12	+/-5	U	10.0	P	07/10/2025	23:31	LB136428
	Cobalt	2.26	+/-15	U	30.0	P	07/10/2025	23:31	LB136428
	Copper	4.60	+/-10	U	20.0	P	07/10/2025	23:31	LB136428
	Iron	23.4	+/-50	U	100	P	07/10/2025	23:31	LB136428
	Lead	2.30	+/-6	U	12.0	P	07/10/2025	23:31	LB136428
	Magnesium	244	+/-1000	U	2000	P	07/10/2025	23:31	LB136428
	Manganese	5.94	+/-10	U	20.0	P	07/10/2025	23:31	LB136428
	Nickel	3.06	+/-20	U	40.0	P	07/10/2025	23:31	LB136428
	Potassium	918	+/-1000	U	2000	P	07/10/2025	23:31	LB136428
	Selenium	9.64	+/-10	U	20.0	P	07/10/2025	23:31	LB136428
	Silver	1.62	+/-5	U	10.0	P	07/10/2025	23:31	LB136428
	Sodium	868	+/-1000	U	2000	P	07/10/2025	23:31	LB136428
	Thallium	4.38	+/-20	U	40.0	P	07/10/2025	23:31	LB136428
	Vanadium	6.26	+/-20	U	40.0	P	07/10/2025	23:31	LB136428
	Zinc	16.7	+/-20	U	40.0	P	07/10/2025	23:31	LB136428
CCB07	Aluminum	11.3	+/-50	U	100	P	07/11/2025	00:22	LB136428
	Antimony	6.76	+/-25	U	50.0	P	07/11/2025	00:22	LB136428
	Arsenic	5.12	+/-10	U	20.0	P	07/11/2025	00:22	LB136428
	Barium	14.6	+/-50	U	100	P	07/11/2025	00:22	LB136428
	Beryllium	0.56	+/-3	U	6.00	P	07/11/2025	00:22	LB136428
	Cadmium	0.50	+/-3	U	6.00	P	07/11/2025	00:22	LB136428
	Calcium	234	+/-1000	U	2000	P	07/11/2025	00:22	LB136428
	Chromium	2.12	+/-5	U	10.0	P	07/11/2025	00:22	LB136428
	Cobalt	2.26	+/-15	U	30.0	P	07/11/2025	00:22	LB136428
	Copper	4.60	+/-10	U	20.0	P	07/11/2025	00:22	LB136428
	Iron	23.4	+/-50	U	100	P	07/11/2025	00:22	LB136428
	Lead	2.30	+/-6	U	12.0	P	07/11/2025	00:22	LB136428
	Magnesium	244	+/-1000	U	2000	P	07/11/2025	00:22	LB136428
	Manganese	5.94	+/-10	U	20.0	P	07/11/2025	00:22	LB136428
	Nickel	3.06	+/-20	U	40.0	P	07/11/2025	00:22	LB136428
	Potassium	918	+/-1000	U	2000	P	07/11/2025	00:22	LB136428
	Selenium	9.64	+/-10	U	20.0	P	07/11/2025	00:22	LB136428
	Silver	1.62	+/-5	U	10.0	P	07/11/2025	00:22	LB136428
	Sodium	868	+/-1000	U	2000	P	07/11/2025	00:22	LB136428
	Thallium	4.38	+/-20	U	40.0	P	07/11/2025	00:22	LB136428
	Vanadium	6.26	+/-20	U	40.0	P	07/11/2025	00:22	LB136428
	Zinc	16.7	+/-20	U	40.0	P	07/11/2025	00:22	LB136428
CCB08	Aluminum	11.3	+/-50	U	100	P	07/11/2025	01:14	LB136428
	Antimony	6.76	+/-25	U	50.0	P	07/11/2025	01:14	LB136428

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2543

Contract: CAMP02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB08	Arsenic	5.12	+/-10	U	20.0	P	07/11/2025	01:14	LB136428
	Barium	14.6	+/-50	U	100	P	07/11/2025	01:14	LB136428
	Beryllium	0.56	+/-3	U	6.00	P	07/11/2025	01:14	LB136428
	Cadmium	0.50	+/-3	U	6.00	P	07/11/2025	01:14	LB136428
	Calcium	234	+/-1000	U	2000	P	07/11/2025	01:14	LB136428
	Chromium	2.12	+/-5	U	10.0	P	07/11/2025	01:14	LB136428
	Cobalt	2.26	+/-15	U	30.0	P	07/11/2025	01:14	LB136428
	Copper	4.60	+/-10	U	20.0	P	07/11/2025	01:14	LB136428
	Iron	23.4	+/-50	U	100	P	07/11/2025	01:14	LB136428
	Lead	2.30	+/-6	U	12.0	P	07/11/2025	01:14	LB136428
	Magnesium	244	+/-1000	U	2000	P	07/11/2025	01:14	LB136428
	Manganese	5.94	+/-10	U	20.0	P	07/11/2025	01:14	LB136428
	Nickel	3.06	+/-20	U	40.0	P	07/11/2025	01:14	LB136428
	Potassium	918	+/-1000	U	2000	P	07/11/2025	01:14	LB136428
	Selenium	9.64	+/-10	U	20.0	P	07/11/2025	01:14	LB136428
	Silver	1.62	+/-5	U	10.0	P	07/11/2025	01:14	LB136428
	Sodium	868	+/-1000	U	2000	P	07/11/2025	01:14	LB136428
	Thallium	4.38	+/-20	U	40.0	P	07/11/2025	01:14	LB136428
	Vanadium	6.26	+/-20	U	40.0	P	07/11/2025	01:14	LB136428
	Zinc	16.7	+/-20	U	40.0	P	07/11/2025	01:14	LB136428
CCB09	Aluminum	11.3	+/-50	U	100	P	07/11/2025	02:03	LB136428
	Antimony	6.76	+/-25	U	50.0	P	07/11/2025	02:03	LB136428
	Arsenic	5.12	+/-10	U	20.0	P	07/11/2025	02:03	LB136428
	Barium	14.6	+/-50	U	100	P	07/11/2025	02:03	LB136428
	Beryllium	0.56	+/-3	U	6.00	P	07/11/2025	02:03	LB136428
	Cadmium	0.50	+/-3	U	6.00	P	07/11/2025	02:03	LB136428
	Calcium	234	+/-1000	U	2000	P	07/11/2025	02:03	LB136428
	Chromium	2.12	+/-5	U	10.0	P	07/11/2025	02:03	LB136428
	Cobalt	2.26	+/-15	U	30.0	P	07/11/2025	02:03	LB136428
	Copper	4.60	+/-10	U	20.0	P	07/11/2025	02:03	LB136428
	Iron	23.4	+/-50	U	100	P	07/11/2025	02:03	LB136428
	Lead	2.30	+/-6	U	12.0	P	07/11/2025	02:03	LB136428
	Magnesium	244	+/-1000	U	2000	P	07/11/2025	02:03	LB136428
	Manganese	5.94	+/-10	U	20.0	P	07/11/2025	02:03	LB136428
	Nickel	3.06	+/-20	U	40.0	P	07/11/2025	02:03	LB136428
	Potassium	918	+/-1000	U	2000	P	07/11/2025	02:03	LB136428
	Selenium	9.64	+/-10	U	20.0	P	07/11/2025	02:03	LB136428
	Silver	1.62	+/-5	U	10.0	P	07/11/2025	02:03	LB136428
	Sodium	868	+/-1000	U	2000	P	07/11/2025	02:03	LB136428

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2543

Contract: CAMP02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB09	Thallium	4.38	+/-20	U	40.0	P	07/11/2025	02:03	LB136428
	Vanadium	6.26	+/-20	U	40.0	P	07/11/2025	02:03	LB136428
	Zinc	16.7	+/-20	U	40.0	P	07/11/2025	02:03	LB136428
CCB10	Aluminum	11.3	+/-50	U	100	P	07/11/2025	02:40	LB136428
	Antimony	6.76	+/-25	U	50.0	P	07/11/2025	02:40	LB136428
	Arsenic	5.12	+/-10	U	20.0	P	07/11/2025	02:40	LB136428
	Barium	14.6	+/-50	U	100	P	07/11/2025	02:40	LB136428
	Beryllium	0.56	+/-3	U	6.00	P	07/11/2025	02:40	LB136428
	Cadmium	0.50	+/-3	U	6.00	P	07/11/2025	02:40	LB136428
	Calcium	234	+/-1000	U	2000	P	07/11/2025	02:40	LB136428
	Chromium	2.12	+/-5	U	10.0	P	07/11/2025	02:40	LB136428
	Cobalt	2.26	+/-15	U	30.0	P	07/11/2025	02:40	LB136428
	Copper	4.60	+/-10	U	20.0	P	07/11/2025	02:40	LB136428
	Iron	23.4	+/-50	U	100	P	07/11/2025	02:40	LB136428
	Lead	2.30	+/-6	U	12.0	P	07/11/2025	02:40	LB136428
	Magnesium	244	+/-1000	U	2000	P	07/11/2025	02:40	LB136428
	Manganese	5.94	+/-10	U	20.0	P	07/11/2025	02:40	LB136428
	Nickel	3.06	+/-20	U	40.0	P	07/11/2025	02:40	LB136428
	Potassium	918	+/-1000	U	2000	P	07/11/2025	02:40	LB136428
	Selenium	9.64	+/-10	U	20.0	P	07/11/2025	02:40	LB136428
	Silver	1.62	+/-5	U	10.0	P	07/11/2025	02:40	LB136428
	Sodium	868	+/-1000	U	2000	P	07/11/2025	02:40	LB136428
	Thallium	4.38	+/-20	U	40.0	P	07/11/2025	02:40	LB136428
	Vanadium	6.26	+/-20	U	40.0	P	07/11/2025	02:40	LB136428
	Zinc	16.7	+/-20	U	40.0	P	07/11/2025	02:40	LB136428

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2543

Instrument: CV1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB168821BL		**SOLID**		**Batch Number:**	**PB168821**		**Prep Date:**	**07/10/2025**	
	Mercury	0.0080	<0.013	U	0.013	CV	07/11/2025	14:35	LB136438

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2543

Instrument: P4

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB168790BL		**SOLID**		**Batch Number:**	**PB168790**		**Prep Date:**	**07/10/2025**	
	Aluminum	0.84	<2.5	U	5.00	P	07/11/2025	01:18	LB136428
	Antimony	0.22	<1.25	U	2.50	P	07/11/2025	01:18	LB136428
	Arsenic	0.19	<0.5	U	1.00	P	07/11/2025	01:18	LB136428
	Barium	0.73	<2.5	U	5.00	P	07/11/2025	01:18	LB136428
	Beryllium	0.025	<0.15	U	0.30	P	07/11/2025	01:18	LB136428
	Cadmium	0.024	<0.15	U	0.30	P	07/11/2025	01:18	LB136428
	Calcium	11.1	<50	U	100	P	07/11/2025	01:18	LB136428
	Chromium	0.047	<0.25	U	0.50	P	07/11/2025	01:18	LB136428
	Cobalt	0.10	<0.75	U	1.50	P	07/11/2025	01:18	LB136428
	Copper	0.22	<0.5	U	1.00	P	07/11/2025	01:18	LB136428
	Iron	3.99	<2.5	U	5.00	P	07/11/2025	01:18	LB136428
	Lead	0.13	<0.3	U	0.60	P	07/11/2025	01:18	LB136428
	Magnesium	12.0	<50	U	100	P	07/11/2025	01:18	LB136428
	Manganese	0.14	<0.5	U	1.00	P	07/11/2025	01:18	LB136428
	Nickel	0.13	<1	U	2.00	P	07/11/2025	01:18	LB136428
	Potassium	27.7	<50	U	100	P	07/11/2025	01:18	LB136428
	Selenium	0.26	<0.5	U	1.00	P	07/11/2025	01:18	LB136428
	Silver	0.12	<0.25	U	0.50	P	07/11/2025	01:18	LB136428
	Sodium	17.8	<50	U	100	P	07/11/2025	01:18	LB136428
	Thallium	0.23	<1	U	2.00	P	07/11/2025	01:18	LB136428
	Vanadium	0.25	<1	U	2.00	P	07/11/2025	01:18	LB136428
	Zinc	0.23	<1	U	2.00	P	07/11/2025	01:18	LB136428

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Metals
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INTERFERENCE CHECK SAMPLE

Client: CDM Smith **SDG No.:** Q2543

Contract: CAMP02 **Lab Code:** ACE

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Aluminum	261000	255000	102	216000	294000	07/10/2025	18:14	LB136428
	Antimony	-0.046			-50	50	07/10/2025	18:14	LB136428
	Arsenic	9.78			-20	20	07/10/2025	18:14	LB136428
	Barium	1.97	6.0	33	-94	106	07/10/2025	18:14	LB136428
	Beryllium	1.64			-6	6	07/10/2025	18:14	LB136428
	Cadmium	-0.15	1.0	15	-5	7	07/10/2025	18:14	LB136428
	Calcium	243000	245000	99	208000	282000	07/10/2025	18:14	LB136428
	Chromium	58.9	52.0	113	42	62	07/10/2025	18:14	LB136428
	Cobalt	2.92			-30	30	07/10/2025	18:14	LB136428
	Copper	-1.93	2.0	96	-18	22	07/10/2025	18:14	LB136428
	Iron	104000	101000	103	85600	116500	07/10/2025	18:14	LB136428
	Lead	-4.02			-12	12	07/10/2025	18:14	LB136428
	Magnesium	260000	255000	102	216000	294000	07/10/2025	18:14	LB136428
	Manganese	2.39	7.0	34	-13	27	07/10/2025	18:14	LB136428
	Nickel	19.7	2.0	985	-38	42	07/10/2025	18:14	LB136428
	Potassium	253			0	0	07/10/2025	18:14	LB136428
	Selenium	-5.79			-20	20	07/10/2025	18:14	LB136428
	Silver	-0.013			-10	10	07/10/2025	18:14	LB136428
	Sodium	202			0	0	07/10/2025	18:14	LB136428
	Thallium	-1.63			-40	40	07/10/2025	18:14	LB136428
	Vanadium	5.55			-40	40	07/10/2025	18:14	LB136428
	Zinc	4.88			-40	40	07/10/2025	18:14	LB136428
ICSAB01	Aluminum	258000	247000	104	209000	285000	07/10/2025	18:18	LB136428
	Antimony	578	618	94	525	711	07/10/2025	18:18	LB136428
	Arsenic	105	104	101	88.4	120	07/10/2025	18:18	LB136428
	Barium	487	537	91	437	637	07/10/2025	18:18	LB136428
	Beryllium	484	495	98	420	570	07/10/2025	18:18	LB136428
	Cadmium	952	972	98	826	1120	07/10/2025	18:18	LB136428
	Calcium	240000	235000	102	199000	271000	07/10/2025	18:18	LB136428
	Chromium	552	542	102	460	624	07/10/2025	18:18	LB136428
	Cobalt	481	476	101	404	548	07/10/2025	18:18	LB136428
	Copper	461	511	90	434	588	07/10/2025	18:18	LB136428
	Iron	99900	99300	101	84400	114500	07/10/2025	18:18	LB136428
	Lead	39.5	49.0	81	37	61	07/10/2025	18:18	LB136428
	Magnesium	257000	248000	104	210000	286000	07/10/2025	18:18	LB136428
	Manganese	478	507	94	430	584	07/10/2025	18:18	LB136428
	Nickel	974	954	102	810	1100	07/10/2025	18:18	LB136428
	Potassium	87.2			0	0	07/10/2025	18:18	LB136428
	Selenium	48.9	46.0	106	26	66	07/10/2025	18:18	LB136428
	Silver	203	201	101	170	232	07/10/2025	18:18	LB136428
	Sodium	163			0	0	07/10/2025	18:18	LB136428
	Thallium	94.8	108	88	68	148	07/10/2025	18:18	LB136428

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Metals
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INTERFERENCE CHECK SAMPLE

Client: CDM Smith **SDG No.:** Q2543

Contract: CAMP02 **Lab Code:** ACE

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Vanadium	475	491	97	417	565	07/10/2025	18:18	LB136428
	Zinc	1070	952	112	809	1095	07/10/2025	18:18	LB136428

METAL QC DATA

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metals
- 5a -
MATRIX SPIKE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q2543

contract: CAMP02 **lab code:** ACE

matrix: Solid **sample id:** Q2542-01 **client id:** VNJ-245MS

Percent Solids for Sample: 95.6 **Spiked ID:** Q2542-01MS **Percent Solids for Spike Sample:** 95.6

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	8040		7410		96.4	650		P
Antimony	mg/Kg	75 - 125	14.5		2.36	U	38.6	38	N	P
Arsenic	mg/Kg	75 - 125	34.3		3.12		38.6	81		P
Barium	mg/Kg	75 - 125	40.7		32.8		9.6	82		P
Beryllium	mg/Kg	75 - 125	8.70		0.54		9.6	85		P
Cadmium	mg/Kg	75 - 125	9.39		0.068	J	9.6	97		P
Calcium	mg/Kg	75 - 125	1000		944		48.2	126		P
Chromium	mg/Kg	75 - 125	31.2		15.0		19.3	84		P
Cobalt	mg/Kg	75 - 125	19.0		8.86		9.6	105		P
Copper	mg/Kg	75 - 125	39.1		25.0		14.5	97		P
Iron	mg/Kg	75 - 125	14600		14500		140	92		P
Lead	mg/Kg	75 - 125	66.4		21.7		48.2	93		P
Magnesium	mg/Kg	75 - 125	2540		2410		96.4	128		P
Manganese	mg/Kg	75 - 125	386		354		9.6	335		P
Nickel	mg/Kg	75 - 125	35.5		12.0		24.1	97		P
Potassium	mg/Kg	75 - 125	787		353		480	90		P
Selenium	mg/Kg	75 - 125	72.3		0.94	U	96.4	75		P
Silver	mg/Kg	75 - 125	3.19		0.47	U	3.6	89		P
Sodium	mg/Kg	75 - 125	444		302		140	101		P
Thallium	mg/Kg	75 - 125	87.4		1.88	U	96.4	91		P
Vanadium	mg/Kg	75 - 125	43.5		31.9		14.5	80		P
Zinc	mg/Kg	75 - 125	51.6		39.6		9.6	125		P

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metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q2543

contract: CAMP02 **lab code:** ACE

matrix: Solid **sample id:** Q2542-01 **client id:** VNJ-245MSD

Percent Solids for Sample: 95.6 **Spiked ID:** Q2542-01MSD **Percent Solids for Spike Sample:** 95.6

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	7660		7410		89.4	279		P
Antimony	mg/Kg	75 - 125	13.4		2.36	U	35.8	37	N	P
Arsenic	mg/Kg	75 - 125	31.7		3.12		35.8	80		P
Barium	mg/Kg	75 - 125	38.6		32.8		8.9	64	N	P
Beryllium	mg/Kg	75 - 125	8.23		0.54		8.9	86		P
Cadmium	mg/Kg	75 - 125	8.69		0.068	J	8.9	97		P
Calcium	mg/Kg	75 - 125	967		944		44.7	53		P
Chromium	mg/Kg	75 - 125	29.1		15.0		17.9	78		P
Cobalt	mg/Kg	75 - 125	17.8		8.86		8.9	100		P
Copper	mg/Kg	75 - 125	36.3		25.0		13.4	84		P
Iron	mg/Kg	75 - 125	13600		14500		130	-731		P
Lead	mg/Kg	75 - 125	61.4		21.7		44.7	89		P
Magnesium	mg/Kg	75 - 125	2410		2410		89.4	-10		P
Manganese	mg/Kg	75 - 125	365		354		8.9	120		P
Nickel	mg/Kg	75 - 125	33.0		12.0		22.4	94		P
Potassium	mg/Kg	75 - 125	730		353		450	84		P
Selenium	mg/Kg	75 - 125	66.3		0.94	U	89.4	74	N	P
Silver	mg/Kg	75 - 125	2.85		0.47	U	3.4	84		P
Sodium	mg/Kg	75 - 125	411		302		130	84		P
Thallium	mg/Kg	75 - 125	76.5		1.88	U	89.4	86		P
Vanadium	mg/Kg	75 - 125	41.2		31.9		13.4	69	N	P
Zinc	mg/Kg	75 - 125	48.0		39.6		8.9	95		P

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metals
- 5a -
MATRIX SPIKE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q2543

contract: CAMP02 **lab code:** ACE

matrix: Solid **sample id:** Q2558-03 **client id:** OU4-TS-Grillo-OG-070925MS

Percent Solids for Sample: 78.7 **Spiked ID:** Q2558-03MS **Percent Solids for Spike Sample:** 78.7

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 124	0.29		0.035		0.32	79	N	CV

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metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q2543

contract: CAMP02 **lab code:** ACE

matrix: Solid **sample id:** Q2558-03 **client id:** OU4-TS-Grillo-OG-070925MSD

Percent Solids for Sample: 78.7 **Spiked ID:** Q2558-03MSD **Percent Solids for Spike Sample:** 78.7

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 124	0.28		0.035		0.32	75	N	CV

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Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: CDM Smith **SDG No.:** Q2543

Contract: CAMP02 **Lab Code:** ACE

Matrix: Solid **Level:** LOW **Client ID:** VNJ-245A

Sample ID: Q2542-01 **Spiked ID:** Q2542-01A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	mg/Kg	75 - 125	30.2		2.36	U	37.7	80		P
Barium	mg/Kg	75 - 125	39.8		32.8		9.40	74	N	P
Selenium	mg/Kg	75 - 125	72.5		0.94	U	94.2	77		P
Vanadium	mg/Kg	75 - 125	43.3		31.9		14.1	80		P

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Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: CDM Smith **SDG No.:** Q2543

Contract: CAMP02 **Lab Code:** ACE

Matrix: Solid **Level:** LOW **Client ID:** OU4-TS-Grillo-OG-070925A

Sample ID: Q2558-03 **Spiked ID:** Q2558-03A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 124	0.34		0.035		0.31	99		CV

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: CDM Smith **Level:** LOW **SDG No.:** Q2543

Contract: CAMP02 **Lab Code:** ACE

Matrix: Solid **Sample ID:** Q2542-01 **Client ID:** VNJ-245DUP

Percent Solids for Sample: 95.6 **Duplicate ID** Q2542-01DUP **Percent Solids for Spike Sample:** 95.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	7410		7040		5		P
Antimony	mg/Kg	20	2.36	U	2.27	U			P
Arsenic	mg/Kg	20	3.12		3.00		4		P
Barium	mg/Kg	20	32.8		32.4		1		P
Beryllium	mg/Kg	20	0.54		0.53		2		P
Cadmium	mg/Kg	20	0.068	J	0.070	J	3		P
Calcium	mg/Kg	20	944		899		5		P
Chromium	mg/Kg	20	15.0		15.0		0		P
Cobalt	mg/Kg	20	8.86		9.11		3		P
Copper	mg/Kg	20	25.0		25.1		0		P
Iron	mg/Kg	20	14500		14200		2		P
Lead	mg/Kg	20	21.7		21.5		1		P
Magnesium	mg/Kg	20	2410		2310		4		P
Manganese	mg/Kg	20	354		362		2		P
Nickel	mg/Kg	20	12.0		11.9		1		P
Potassium	mg/Kg	20	353		345		2		P
Selenium	mg/Kg	20	0.94	U	0.91	U			P
Silver	mg/Kg	20	0.47	U	0.46	U			P
Sodium	mg/Kg	20	302		302		0		P
Thallium	mg/Kg	20	1.88	U	1.82	U			P
Vanadium	mg/Kg	20	31.9		31.7		1		P
Zinc	mg/Kg	20	39.6		39.4		1		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: CDM Smith **Level:** LOW **SDG No.:** Q2543

Contract: CAMP02 **Lab Code:** ACE

Matrix: Solid **Sample ID:** Q2542-01MS **Client ID:** VNJ-245MSD

Percent Solids for Sample: 95.6 **Duplicate ID** Q2542-01MSD **Percent Solids for Spike Sample:** 95.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	8040		7660		5		P
Antimony	mg/Kg	20	14.5		13.4		8		P
Arsenic	mg/Kg	20	34.3		31.7		8		P
Barium	mg/Kg	20	40.7		38.6		5		P
Beryllium	mg/Kg	20	8.70		8.23		6		P
Cadmium	mg/Kg	20	9.39		8.69		8		P
Calcium	mg/Kg	20	1000		967		3		P
Chromium	mg/Kg	20	31.2		29.1		7		P
Cobalt	mg/Kg	20	19.0		17.8		7		P
Copper	mg/Kg	20	39.1		36.3		7		P
Iron	mg/Kg	20	14600		13600		7		P
Lead	mg/Kg	20	66.4		61.4		8		P
Magnesium	mg/Kg	20	2540		2410		5		P
Manganese	mg/Kg	20	386		365		6		P
Nickel	mg/Kg	20	35.5		33.0		7		P
Potassium	mg/Kg	20	787		730		8		P
Selenium	mg/Kg	20	72.3		66.3		9		P
Silver	mg/Kg	20	3.19		2.85		11		P
Sodium	mg/Kg	20	444		411		8		P
Thallium	mg/Kg	20	87.4		76.5		13		P
Vanadium	mg/Kg	20	43.5		41.2		5		P
Zinc	mg/Kg	20	51.6		48.0		7		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: CDM Smith **Level:** LOW **SDG No.:** Q2543

Contract: CAMP02 **Lab Code:** ACE

Matrix: Solid **Sample ID:** Q2558-03 **Client ID:** OU4-TS-Grillo-OG-070925DUP

Percent Solids for Sample: 78.7 **Duplicate ID** Q2558-03DUP **Percent Solids for Spike Sample:** 78.7

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.035		0.032		9		CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: CDM Smith **Level:** LOW **SDG No.:** Q2543

Contract: CAMP02 **Lab Code:** ACE

Matrix: Solid **Sample ID:** Q2558-03MS **Client ID:** OU4-TS-Grillo-OG-070925MSD

Percent Solids for Sample: 78.7 **Duplicate ID** Q2558-03MSD **Percent Solids for Spike Sample:** 78.7

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.29		0.28		4		CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

LABORATORY CONTROL SAMPLE SUMMARY

Client: CDM Smith **SDG No.:** Q2543

Contract: CAMP02 **Lab Code:** ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168790BS							
Aluminum	mg/Kg	100	99.4		99	80 - 120	P
Antimony	mg/Kg	40.0	40.3		101	80 - 120	P
Arsenic	mg/Kg	40.0	39.2		98	80 - 120	P
Barium	mg/Kg	10.0	10.0		100	80 - 120	P
Beryllium	mg/Kg	10.0	10.9		109	80 - 120	P
Cadmium	mg/Kg	10.0	9.72		97	80 - 120	P
Calcium	mg/Kg	50.0	49.1	J	98	80 - 120	P
Chromium	mg/Kg	20.0	20.9		104	80 - 120	P
Cobalt	mg/Kg	10.0	9.95		100	80 - 120	P
Copper	mg/Kg	15.0	15.6		104	80 - 120	P
Iron	mg/Kg	150	144		96	80 - 120	P
Lead	mg/Kg	50.0	48.6		97	80 - 120	P
Magnesium	mg/Kg	100	103		103	80 - 120	P
Manganese	mg/Kg	10.0	10.6		106	80 - 120	P
Nickel	mg/Kg	25.0	24.9		100	80 - 120	P
Potassium	mg/Kg	500	499		100	80 - 120	P
Selenium	mg/Kg	100	98.4		98	80 - 120	P
Silver	mg/Kg	3.8	3.53		93	80 - 120	P
Sodium	mg/Kg	150	153		102	80 - 120	P
Thallium	mg/Kg	100	102		102	80 - 120	P
Vanadium	mg/Kg	15.0	15.2		101	80 - 120	P
Zinc	mg/Kg	10.0	11.4		114	80 - 120	P

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Metals

LABORATORY CONTROL SAMPLE SUMMARY

Client: CDM Smith **SDG No.:** Q2543

Contract: CAMP02 **Lab Code:** ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168821BS							
Mercury	mg/Kg	0.26	0.24		91	80 - 124	CV

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

VNJ-245L

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **Lb No.:** lb136428 **Lab Sample ID :** Q2542-01L **SDG No.:** Q2543

Matrix (soil/water): Solid **Level (low/med):** LOW

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	7410		8270		12		P
Antimony	2.36	U	11.8	U			P
Arsenic	3.12		2.98	J	4		P
Barium	32.8		37.0		13		P
Beryllium	0.54		0.63	J	17		P
Cadmium	0.068	J	1.41	U	100.0		P
Calcium	944		1080		14		P
Chromium	15.0		17.2		14		P
Cobalt	8.86		8.71		2		P
Copper	25.0		30.1		20		P
Iron	14500		16100		11		P
Lead	21.7		22.3		3		P
Magnesium	2410		2760		14		P
Manganese	354		401		13		P
Nickel	12.0		12.0		1		P
Potassium	353		298	J	16		P
Selenium	0.94	U	4.71	U			P
Silver	0.47	U	2.36	U			P
Sodium	302		298	J	1		P
Thallium	1.88	U	9.42	U			P
Vanadium	31.9		36.3		14		P
Zinc	39.6		42.2		6		P

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ICP SERIAL DILUTIONS

SAMPLE NO.

OU4-TS-Grillo-OG-070925L

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **Lb No.:** lb136438 **Lab Sample ID :** Q2558-03L **SDG No.:** Q2543

Matrix (soil/water): Solid **Level (low/med):** LOW

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Mercury	0.035		0.077	U	100.0		CV

METAL PREPARATION & INSTRUMENT DATA

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ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith **SDG No.:** Q2543

Contract: CAMP02 **Lab Code:** ACE

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Al	Ca	Fe	Mg	Ag
Aluminum	396.100	0.0000000	-0.0002060	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	-0.0000440	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	-0.0075970	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0007850	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	-0.0001440	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	-0.0001490	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0001050	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith **SDG No.:** Q2543

Contract: CAMP02 **Lab Code:** ACE

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: As	Ba	Be	Cd	Co
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0000000	0.0009530
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	-0.0039600
Lead	220.353	0.0000000	0.0003170	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	-0.0003570
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0054900
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith **SDG No.:** Q2543

Contract: CAMP02 **Lab Code:** ACE

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Cr	Cu	K	Mn	Mo
Aluminum	396.100	0.0000000	0.0000000	0.0000590	0.0000000	0.0396900
Antimony	206.833	0.0122000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	-0.0029000	0.0000000	0.0000000	0.0000000	0.0004900
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	-0.0000710	-0.0003400
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	-0.0007860
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0006510	0.0020500
Iron	240.488	0.0000000	0.0000000	0.0000730	0.0000000	-0.0015250
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0007460	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000120
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0017400	-0.0100400
Vanadium	292.402	-0.0025100	0.0000000	0.0000000	0.0000000	-0.0072000
Zinc	213.800	0.0000000	0.0009010	0.0000000	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith **SDG No.:** Q2543

Contract: CAMP02 **Lab Code:** ACE

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Na	Ni	Pb	Sb	Se
Aluminum	396.100	0.0000000	0.0000000	0.0012800	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	-0.0047000	0.0036100	0.0000000	0.0000000
Iron	240.488	0.0000000	-0.0017000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0003330	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0067600	0.0000000	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith **SDG No.:** Q2543

Contract: CAMP02 **Lab Code:** ACE

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Sn	Ti	Tl	V	Zn
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	-0.0035600	-0.0007970	0.0000000	-0.0018900	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Cobalt	228.616	0.0000000	0.0018800	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0003840	0.0000000	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	-0.0003610	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	-0.0007420	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	-0.0039700	0.0000000	-0.0115600	0.0000000
Vanadium	292.402	0.0000000	0.0005320	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

METAL PREPARATION & ANALYICAL SUMMARY

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SAMPLE PREPARATION SUMMARY

Client: CDM Smith **SDG No.:** Q2543

Contract: CAMP02 **Lab Code:** ACE **Method:**

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB168790**						
PB168790BL	PB168790BL	MB	SOLID	07/10/2025	2.00	100.0	100.00
PB168790BS	PB168790BS	LCS	SOLID	07/10/2025	2.00	100.0	100.00
Q2542-01DUP	VNJ-245DUP	DUP	SOLID	07/10/2025	2.30	100.0	95.60
Q2542-01MS	VNJ-245MS	MS	SOLID	07/10/2025	2.17	100.0	95.60
Q2542-01MSD	VNJ-245MSD	MSD	SOLID	07/10/2025	2.34	100.0	95.60
Q2543-01	TP-41	SAM	SOLID	07/10/2025	2.42	100.0	82.00
Q2543-02	TP-49	SAM	SOLID	07/10/2025	2.24	100.0	73.90
Q2543-03	TP-23	SAM	SOLID	07/10/2025	2.36	100.0	85.00
Q2543-04	TP-23-99	SAM	SOLID	07/10/2025	2.29	100.0	85.40

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SAMPLE PREPARATION SUMMARY

Client: CDM Smith **SDG No.:** Q2543

Contract: CAMP02 **Lab Code:** ACE **Method:**

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB168821**						
PB168821BL	PB168821BL	MB	SOLID	07/10/2025	0.52	35.0	100.00
PB168821BS	PB168821BS	LCS	SOLID	07/10/2025	0.54	35.0	100.00
Q2543-01	TP-41	SAM	SOLID	07/10/2025	0.56	35.0	82.00
Q2543-02	TP-49	SAM	SOLID	07/10/2025	0.56	35.0	73.90
Q2543-03	TP-23	SAM	SOLID	07/10/2025	0.59	35.0	85.00
Q2543-04	TP-23-99	SAM	SOLID	07/10/2025	0.51	35.0	85.40
Q2558-03DUP	OU4-TS-Grillo-OG-070925DUP	DUP	SOLID	07/10/2025	0.57	35.0	78.70
Q2558-03MS	OU4-TS-Grillo-OG-070925MS	MS	SOLID	07/10/2025	0.56	35.0	78.70
Q2558-03MSD	OU4-TS-Grillo-OG-070925MSD	MSD	SOLID	07/10/2025	0.56	35.0	78.70

Alliance TECHNICAL GROUP
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ANALYSIS RUN LOG

Client: CDM Smith **Contract:** CAMP02

Lab code: ACE **Sdg no.:** Q2543

Instrument id number: **Method:** **Run number:** LB136428

Start date: 07/10/2025 **End date:** 07/11/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1727	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1731	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1736	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1740	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1744	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1748	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1752	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1801	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1805	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1809	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1814	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1818	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1840	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1844	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1930	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1934	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	2022	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	2036	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	2127	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	2131	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	2225	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	2231	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV06	CCV06	1	2327	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	2331	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV07	CCV07	1	0018	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB07	CCB07	1	0022	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV08	CCV08	1	0109	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB08	CCB08	1	0114	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB168790BL	PB168790BL	1	0118	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB168790BS	PB168790BS	1	0122	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2542-01DUP	VNJ-245DUP	1	0138	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2542-01L	VNJ-245L	5	0142	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2542-01MS	VNJ-245MS	1	0147	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2542-01MSD	VNJ-245MSD	1	0151	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2542-01A	VNJ-245A	1	0155	Ba,Sb,Se,V
CCV09	CCV09	1	0158	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB09	CCB09	1	0203	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2543-01	TP-41	1	0207	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2543-02	TP-49	1	0211	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2543-03	TP-23	1	0215	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2543-04	TP-23-99	1	0219	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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ANALYSIS RUN LOG

Client: CDM Smith **Contract:** CAMP02

Lab code: ACE **Sdg no.:** Q2543

Instrument id number: **Method:** **Run number:** LB136428

Start date: 07/10/2025 **End date:** 07/11/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
CCV10	CCV10	1	0236	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB10	CCB10	1	0240	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

metals
- 14 -
ANALYSIS RUN LOG

Client: CDM Smith **Contract:** CAMP02

Lab code: ACE **Sdg no.:** Q2543

Instrument id number: **Method:** **Run number:** LB136438

Start date: 07/11/2025 **End date:** 07/11/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1356	HG
S0.2	S0.2	1	1358	HG
S2.5	S2.5	1	1400	HG
S5	S5	1	1403	HG
S7.5	S7.5	1	1405	HG
S10	S10	1	1410	HG
ICV25	ICV25	1	1413	HG
ICB25	ICB25	1	1415	HG
CCV82	CCV82	1	1418	HG
CCB82	CCB82	1	1425	HG
CRA	CRA	1	1428	HG
PB168821BL	PB168821BL	1	1435	HG
PB168821BS	PB168821BS	1	1440	HG
Q2543-01	TP-41	1	1449	HG
Q2543-02	TP-49	1	1451	HG
CCV83	CCV83	1	1456	HG
CCB83	CCB83	1	1501	HG
Q2543-03	TP-23	1	1504	HG
Q2543-04	TP-23-99	1	1506	HG
CCV84	CCV84	1	1526	HG
CCB84	CCB84	1	1529	HG
Q2558-03DUP	OU4-TS-Grillo-OG-070925DUP	1	1538	HG
Q2558-03MS	OU4-TS-Grillo-OG-070925MS	1	1541	HG
Q2558-03MSD	OU4-TS-Grillo-OG-070925MSD	1	1543	HG
CCV85	CCV85	1	1602	HG
CCB85	CCB85	1	1604	HG
Q2558-03L	OU4-TS-Grillo-OG-070925L	5	1623	HG
Q2558-03A	OU4-TS-Grillo-OG-070925A	1	1625	HG
CCV86	CCV86	1	1632	HG
CCB86	CCB86	1	1634	HG

SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO.
QUOTE NO. Q2543
COC Number 2047551

13
13.1

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: CDM SMITH
ADDRESS: 110 FIELDCREST AVE #8 6TH FLOOR
CITY: EDISON STATE: NJ ZIP: 08837
ATTENTION: MARCIE ENCINAS
PHONE: 7325904679 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: SOUTH RIVER WM REPLACEMENT
PROJECT NO.: 302781 LOCATION: SOUTH RIVER, NJ
PROJECT MANAGER: FELIPE CONTRERAS
e-mail: ENCINASMA@CDMSMITH.COM
PHONE: 7325904679 FAX:

CLIENT BILLING INFORMATION

BILL TO: CDM SMITH PO#:
ADDRESS: 110 FIELDCREST AVE #8 6TH FLOOR
CITY: EDISON STATE: NJ ZIP: 08837
ATTENTION: MARCIE ENCINAS PHONE: 7325904679

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☑ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B ☐ Other _____
☐ EDD FORMAT _____

ANALYSIS

1. TCL VOC
2. TCL SVOC
3. PCB
4. METALS
5. PEST
6. DRO (GRO)
7. HERBICIDES
8.
9.

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	TP-41	S		X	7/8/25	1240	6	X	X	X	X	X	X	X			E
2.	TP-47	S		X	7/9/25	0755	6	X	X	X	X	X	X	X			E
3.	TP-23	S		X	7/9/25	0915	6	X	X	X	X	X	X	X			E
4.	TP-23-99	S		X	7/9/25	0920	6	X	X	X	X	X	X	X			E
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

Specify Preservatives: A-HCl D-NaOH B-HN03 E-ICE C-H2SO4 F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	7/9/25 1102	1. 7-9-25 1102
2.	DATE/TIME:	2.
3.	DATE/TIME: 1330 7-9-25	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.7 °C
Comments:

Page _____ of

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

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WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

Alliance
CLINIC
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2543 CAMP02
Client Name : CDM Smith
Client Contact : Marcie Ann Encinas
Invoice Name : CDM Smith
Invoice Contact : Marcie Ann Encinas

Order Date : 7/9/2025 12:26:00 PM
Project Name : South River WM Replacem
Receive DateTime : 7/9/2025 ~~2:00:00 PM~~ 13:30
Purchase Order :

Project Mgr :
Report Type : ~~Level 1~~ Level 2
EDD Type : EXCEL NOCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2543-01	TP-41	Solid	07/08/2025	12:40					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2543-02	TP-49	Solid	07/09/2025	07:55					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2543-03	TP-23	Solid	07/09/2025	09:15					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2543-04	TP-23-99	Solid	07/09/2025	09:20					
					VOC-TCLVOA-10		8260D		10 Bus. Days

DP 07/11/2025

Relinguished By :
Date / Time : 7-9-25 1400

Received By :
Date / Time : 07/09/25 14:20

Storage Area : VOA Refridgerator Room