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LAB CHRONICLE

OrderID:	Q2529	**OrderDate:**	7/8/2025 3:36:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	O11,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2529-01	**TP-91**	**SOIL**			**07/03/25**			**07/08/25**
			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		07/09/25	07/09/25	
			Pesticide-TCL	8081B		07/09/25	07/09/25	
Q2529-02	**TP-80**	**SOIL**			**07/07/25**			**07/08/25**
			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		07/09/25	07/09/25	
			Pesticide-TCL	8081B		07/09/25	07/09/25	
Q2529-03	**TP-79**	**SOIL**			**07/07/25**			**07/08/25**
			Diesel Range Organics	8015D		07/16/25	07/16/25	
			Gasoline Range Organics	8015D			07/11/25	
			Herbicide	8151A		07/11/25	07/18/25	
			PCB	8082A		07/09/25	07/09/25	
			Pesticide-TCL	8081B		07/09/25	07/09/25	
Q2529-04	**TP-95**	**SOIL**			**07/07/25**			**07/08/25**
			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		07/09/25	07/09/25	
			Pesticide-TCL	8081B		07/09/25	07/09/25	
Q2529-05	**TP-98**	**SOIL**			**07/07/25**			**07/08/25**
			Diesel Range Organics	8015D		07/16/25	07/16/25	
			Gasoline Range Organics	8015D			07/10/25	

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LAB CHRONICLE

			Herbicide	8151A		07/11/25	07/18/25
			PCB	8082A		07/09/25	07/09/25
			Pesticide-TCL	8081B		07/09/25	07/09/25
Q2529-06	**TP-102**	**SOIL**			**07/07/25**		**07/08/25**
			Diesel Range Organics	8015D		07/16/25	07/17/25
			Gasoline Range Organics	8015D			07/11/25
			Herbicide	8151A		07/11/25	07/18/25
			PCB	8082A		07/09/25	07/09/25
			Pesticide-TCL	8081B		07/09/25	07/09/25
Q2529-07	**TP-101**	**SOIL**			**07/07/25**		**07/08/25**
			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		07/09/25	07/09/25
			Pesticide-TCL	8081B		07/09/25	07/09/25
Q2529-08	**TP-89**	**SOIL**			**07/08/25**		**07/08/25**
			Diesel Range Organics	8015D		07/16/25	07/16/25
			Gasoline Range Organics	8015D			07/11/25
			Herbicide	8151A		07/11/25	07/18/25
			PCB	8082A		07/09/25	07/09/25
			Pesticide-TCL	8081B		07/09/25	07/09/25
Q2529-09	**TP-33**	**SOIL**			**07/08/25**		**07/08/25**
			Diesel Range Organics	8015D		07/16/25	07/16/25
			Gasoline Range Organics	8015D			07/11/25
			Herbicide	8151A		07/11/25	07/18/25
			PCB	8082A		07/09/25	07/09/25
			Pesticide-TCL	8081B		07/09/25	07/09/25
Q2529-10	**TP-30**	**SOIL**			**07/08/25**		**07/08/25**
			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		07/09/25	07/09/25
			Pesticide-TCL	8081B		07/09/25	07/09/25

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Hit Summary Sheet
SW-846

SDG No.: Q2529 **Order ID:** Q2529

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

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	CDM Smith	Date Collected:	07/03/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-91	SDG No.:	Q2529
Lab Sample ID:	Q2529-01	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	90.9 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
PS031133.D	1	07/11/25 08:50	07/18/25 16:33	PB168811

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	8.50	U	8.50	73.6	ug/Kg
120-36-5	DICHLORPROP	14.1	U	14.1	73.6	ug/Kg
94-75-7	2,4-D	9.90	U	9.90	73.6	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.0	U	10.0	73.6	ug/Kg
93-76-5	2,4,5-T	9.60	U	9.60	73.6	ug/Kg
94-82-6	2,4-DB	26.6	U	26.6	73.6	ug/Kg
88-85-7	DINOSEB	11.9	U	11.9	73.6	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	128		10 - 141	26%	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

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-80	SDG No.:	Q2529
Lab Sample ID:	Q2529-02	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	90.7 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
PS031134.D	1	07/11/25 08:50	07/18/25 16:57	PB168811

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	8.50	U	8.50	73.7	ug/Kg
120-36-5	DICHLORPROP	14.1	U	14.1	73.7	ug/Kg
94-75-7	2,4-D	10.0	U	10.0	73.7	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.0	U	10.0	73.7	ug/Kg
93-76-5	2,4,5-T	9.60	U	9.60	73.7	ug/Kg
94-82-6	2,4-DB	26.6	U	26.6	73.7	ug/Kg
88-85-7	DINOSEB	11.9	U	11.9	73.7	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	261		10 - 141	52%	SPK: 500

Comments:

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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:	07/08/25
Client Sample ID:	TP-79	SDG No.:	Q2529
Lab Sample ID:	Q2529-03	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	90.6 Decanted:
Sample Wt/Vol:	30.1 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
PS031135.D	1	07/11/25 08:50	07/18/25 17:21	PB168811

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	8.50	U	8.50	73.7	ug/Kg
120-36-5	DICHLORPROP	14.1	U	14.1	73.7	ug/Kg
94-75-7	2,4-D	9.90	U	9.90	73.7	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.0	U	10.0	73.7	ug/Kg
93-76-5	2,4,5-T	9.60	U	9.60	73.7	ug/Kg
94-82-6	2,4-DB	26.6	U	26.6	73.7	ug/Kg
88-85-7	DINOSEB	11.9	U	11.9	73.7	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	247		10 - 141	49%	SPK: 500

Comments:

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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:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-95	SDG No.:	Q2529
Lab Sample ID:	Q2529-04	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	83.7 Decanted:
Sample Wt/Vol:	30.08 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
PS031136.D	1	07/11/25 08:50	07/18/25 17:45	PB168811

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	9.20	U	9.20	79.8	ug/Kg
120-36-5	DICHLORPROP	15.3	U	15.3	79.8	ug/Kg
94-75-7	2,4-D	10.8	U	10.8	79.8	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.8	U	10.8	79.8	ug/Kg
93-76-5	2,4,5-T	10.4	U	10.4	79.8	ug/Kg
94-82-6	2,4-DB	28.8	U	28.8	79.8	ug/Kg
88-85-7	DINOSEB	12.9	U	12.9	79.8	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	311		10 - 141	62%	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:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-98	SDG No.:	Q2529
Lab Sample ID:	Q2529-05	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	86.9 Decanted:
Sample Wt/Vol:	30.06 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
PS031137.D	1	07/11/25 08:50	07/18/25 18:09	PB168811

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	8.90	U	8.90	76.9	ug/Kg
120-36-5	DICHLORPROP	14.7	U	14.7	76.9	ug/Kg
94-75-7	2,4-D	10.4	U	10.4	76.9	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.4	U	10.4	76.9	ug/Kg
93-76-5	2,4,5-T	10.0	U	10.0	76.9	ug/Kg
94-82-6	2,4-DB	27.8	U	27.8	76.9	ug/Kg
88-85-7	DINOSEB	12.4	U	12.4	76.9	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	216		10 - 141	43%	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:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-102	SDG No.:	Q2529
Lab Sample ID:	Q2529-06	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	95.6 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
PS031138.D	1	07/11/25 08:50	07/18/25 18:33	PB168811

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	8.10	U	8.10	70.0	ug/Kg
120-36-5	DICHLORPROP	13.4	U	13.4	70.0	ug/Kg
94-75-7	2,4-D	9.40	U	9.40	70.0	ug/Kg
93-72-1	2,4,5-TP (Silvex)	9.50	U	9.50	70.0	ug/Kg
93-76-5	2,4,5-T	9.10	U	9.10	70.0	ug/Kg
94-82-6	2,4-DB	25.3	U	25.3	70.0	ug/Kg
88-85-7	DINOSEB	11.3	U	11.3	70.0	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	188		10 - 141	38%	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:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-101	SDG No.:	Q2529
Lab Sample ID:	Q2529-07	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	89.7 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
PS031139.D	1	07/11/25 08:50	07/18/25 18:57	PB168811

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	8.60	U	8.60	74.6	ug/Kg
120-36-5	DICHLORPROP	14.2	U	14.2	74.6	ug/Kg
94-75-7	2,4-D	10.1	U	10.1	74.6	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.1	U	10.1	74.6	ug/Kg
93-76-5	2,4,5-T	9.70	U	9.70	74.6	ug/Kg
94-82-6	2,4-DB	26.9	U	26.9	74.6	ug/Kg
88-85-7	DINOSEB	12.0	U	12.0	74.6	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	268		10 - 141	54%	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
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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-89	SDG No.:	Q2529
Lab Sample ID:	Q2529-08	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	90.1 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
PS031140.D	1	07/11/25 08:50	07/18/25 19:21	PB168811

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	8.60	U	8.60	74.3	ug/Kg
120-36-5	DICHLORPROP	14.2	U	14.2	74.3	ug/Kg
94-75-7	2,4-D	10.0	U	10.0	74.3	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.0	U	10.0	74.3	ug/Kg
93-76-5	2,4,5-T	9.60	U	9.60	74.3	ug/Kg
94-82-6	2,4-DB	26.8	U	26.8	74.3	ug/Kg
88-85-7	DINOSEB	12.0	U	12.0	74.3	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	185		10 - 141	37%	SPK: 500

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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-33	SDG No.:	Q2529
Lab Sample ID:	Q2529-09	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	90.5 Decanted:
Sample Wt/Vol:	30.06 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
PS031141.D	1	07/11/25 08:50	07/18/25 19:46	PB168811

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	8.50	U	8.50	73.9	ug/Kg
120-36-5	DICHLORPROP	14.1	U	14.1	73.9	ug/Kg
94-75-7	2,4-D	10.0	U	10.0	73.9	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.0	U	10.0	73.9	ug/Kg
93-76-5	2,4,5-T	9.60	U	9.60	73.9	ug/Kg
94-82-6	2,4-DB	26.7	U	26.7	73.9	ug/Kg
88-85-7	DINOSEB	11.9	U	11.9	73.9	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	107		10 - 141	21%	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:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-30	SDG No.:	Q2529
Lab Sample ID:	Q2529-10	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	91.4 Decanted:
Sample Wt/Vol:	30.04 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
PS031142.D	1	07/11/25 08:50	07/18/25 20:10	PB168811

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	8.50	U	8.50	73.2	ug/Kg
120-36-5	DICHLORPROP	14.0	U	14.0	73.2	ug/Kg
94-75-7	2,4-D	9.90	U	9.90	73.2	ug/Kg
93-72-1	2,4,5-TP (Silvex)	9.90	U	9.90	73.2	ug/Kg
93-76-5	2,4,5-T	9.50	U	9.50	73.2	ug/Kg
94-82-6	2,4-DB	26.4	U	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	190		10 - 141	38%	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

QC SUMMARY

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Surrogate Summary

SDG No.: Q2529

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-PS031131.D	PIBLK-PS031131.D	2,4-DCAA	1	500	472	94		61	136
		2,4-DCAA	2	500	505	101		61	136
Q2529-01	TP-91	2,4-DCAA	1	500	121	24		10	141
		2,4-DCAA	2	500	128	26		10	141
Q2529-02	TP-80	2,4-DCAA	1	500	63.2	13		10	141
		2,4-DCAA	2	500	261	52		10	141
Q2529-03	TP-79	2,4-DCAA	1	500	111	22		10	141
		2,4-DCAA	2	500	247	49		10	141
Q2529-04	TP-95	2,4-DCAA	1	500	139	28		10	141
		2,4-DCAA	2	500	311	62		10	141
Q2529-05	TP-98	2,4-DCAA	1	500	116	23		10	141
		2,4-DCAA	2	500	216	43		10	141
Q2529-06	TP-102	2,4-DCAA	1	500	149	30		10	141
		2,4-DCAA	2	500	188	38		10	141
Q2529-07	TP-101	2,4-DCAA	1	500	164	33		10	141
		2,4-DCAA	2	500	268	54		10	141
Q2529-08	TP-89	2,4-DCAA	1	500	115	23		10	141
		2,4-DCAA	2	500	185	37		10	141
Q2529-09	TP-33	2,4-DCAA	1	500	107	21		10	141
		2,4-DCAA	2	500	59.6	12		10	141
Q2529-10	TP-30	2,4-DCAA	1	500	118	24		10	141
		2,4-DCAA	2	500	190	38		10	141
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
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.: Q2529 **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	Limits RPD
Lab Sample ID:	**Q2529-10MS (Column 1)**	**Client Sample ID:**		**TP-30MS**								
	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 (Column 2)**	**Client Sample ID:**		**TP-30MS**								
	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.: Q2529 **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** **Client Sample ID:** **TP-30MSD** **(Column 1)**											
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** **Client Sample ID:** **TP-30MSD** **(Column 2)**											
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.: Q2529 **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.: Q2529

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-91	Q2529-01	PS031133.D	07/18/2025	07/18/2025
TP-80	Q2529-02	PS031134.D	07/18/2025	07/18/2025
TP-79	Q2529-03	PS031135.D	07/18/2025	07/18/2025
TP-95	Q2529-04	PS031136.D	07/18/2025	07/18/2025
TP-98	Q2529-05	PS031137.D	07/18/2025	07/18/2025
TP-102	Q2529-06	PS031138.D	07/18/2025	07/18/2025
TP-101	Q2529-07	PS031139.D	07/18/2025	07/18/2025
TP-89	Q2529-08	PS031140.D	07/18/2025	07/18/2025
TP-33	Q2529-09	PS031141.D	07/18/2025	07/18/2025
TP-30	Q2529-10	PS031142.D	07/18/2025	07/18/2025
TP-30MS	Q2529-10MS	PS031145.D	07/18/2025	07/18/2025
TP-30MSD	Q2529-10MSD	PS031146.D	07/18/2025	07/18/2025

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.:	Q2529
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.:	Q2529
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
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-PS031021.D	SDG No.:	Q2529
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
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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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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.:	Q2529
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
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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-PS031131.D	SDG No.:	Q2529
Lab Sample ID:	I.BLK-PS031131.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
PS031131.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	505		61 - 136	101%	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.:	Q2529
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
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
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.:	Q2529
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:

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:	PB168811BS	SDG No.:	Q2529
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:

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:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-30MS	SDG No.:	Q2529
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:

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:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-30MSD	SDG No.:	Q2529
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

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RETENTION TIMES OF INITIAL CALIBRATION

Lab Name: Alliance
Contract: CAMP02
Lab Code: ACE
SDG NO.: Q2529
Instrument ID: ECD_S
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
Contract: CAMP02
Lab Code: ACE
SDG NO.: Q2529
Instrument ID: ECD_S
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.: Q2529
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.: Q2529
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.:** Q2529

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.:** Q2529

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.:** Q2529

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.:** Q2529

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.:** Q2529

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.:** Q2529

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.:** Q2529

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.:** Q2529

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.:** Q2529

Continuing Calib Date: 07/18/2025 **Initial Calibration Date(s):** 07/11/2025 07/11/2025

Continuing Calib Time: 15:39 **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	0.01
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	8.46	8.47	8.37	8.57	0.01
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	11.43	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.:** Q2529

Continuing Calib Date: 07/18/2025 **Initial Calibration Date(s):** 07/11/2025 07/11/2025

Continuing Calib Time: 15:39 **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	7.76	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.:** Q2529

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 :** PS031132.D **Time Analyzed:** 15:39

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.639	9.547	9.747	826.390	712.500	16.0
2,4,5-TP(Silvex)	9.345	9.253	9.453	770.640	712.500	8.2
2,4-D	8.459	8.367	8.567	824.550	705.000	17.0
2,4-DB	10.217	10.125	10.325	818.610	712.500	14.9
2,4-DCAA	7.326	7.233	7.433	705.130	750.000	-6.0
DICAMBA	7.515	7.422	7.622	616.040	705.000	-12.6
DICHLORPROP	8.228	8.135	8.335	736.280	705.000	4.4
Dinoseb	11.431	11.339	11.539	730.630	705.000	3.6

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2529

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 :** PS031132.D **Time Analyzed:** 15:39

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	625.360	712.500	-12.2
2,4,5-TP(Silvex)	9.928	9.832	10.032	642.510	712.500	-9.8
2,4-D	9.023	8.927	9.127	665.480	705.000	-5.6
2,4-DB	10.923	10.826	11.026	610.290	712.500	-14.3
2,4-DCAA	7.764	7.669	7.869	642.990	750.000	-14.3
DICAMBA	7.966	7.871	8.071	610.130	705.000	-13.5
DICHLORPROP	8.687	8.591	8.791	638.060	705.000	-9.5
Dinoseb	11.307	11.210	11.410	595.740	705.000	-15.5

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2529

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.:** Q2529

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.:** Q2529

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 07/11/2025 07/11/2025

Client Sample No.: CCAL04 **Date Analyzed:** 07/18/2025

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.:** Q2529

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 07/11/2025 07/11/2025

Client Sample No.: CCAL04 **Date Analyzed:** 07/18/2025

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.:** Q2529

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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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2529

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.:** Q2529

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 07/11/2025 07/11/2025

Client Sample No.: CCAL05 **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.:** Q2529

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 07/11/2025 07/11/2025

Client Sample No.: CCAL05 **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.:** Q2529

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	14:17	PS031131.D	7.33	0.00
HSTDCCC750	HSTDCCC750	07/18/2025	15:39	PS031132.D	7.33	0.00
TP-91	Q2529-01	07/18/2025	16:33	PS031133.D	7.32	0.00
TP-80	Q2529-02	07/18/2025	16:57	PS031134.D	7.31	0.00
TP-79	Q2529-03	07/18/2025	17:21	PS031135.D	7.32	0.00
TP-95	Q2529-04	07/18/2025	17:45	PS031136.D	7.32	0.00
TP-98	Q2529-05	07/18/2025	18:09	PS031137.D	7.32	0.00
TP-102	Q2529-06	07/18/2025	18:33	PS031138.D	7.32	0.00
TP-101	Q2529-07	07/18/2025	18:57	PS031139.D	7.32	0.00
TP-89	Q2529-08	07/18/2025	19:21	PS031140.D	7.32	0.00
TP-33	Q2529-09	07/18/2025	19:46	PS031141.D	7.32	0.00
TP-30	Q2529-10	07/18/2025	20:10	PS031142.D	7.32	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
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.:** Q2529

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	14:17	PS031131.D	7.77	0.00
HSTDCCC750	HSTDCCC750	07/18/2025	15:39	PS031132.D	7.76	0.00
TP-91	Q2529-01	07/18/2025	16:33	PS031133.D	7.77	0.00
TP-80	Q2529-02	07/18/2025	16:57	PS031134.D	7.78	0.00
TP-79	Q2529-03	07/18/2025	17:21	PS031135.D	7.77	0.00
TP-95	Q2529-04	07/18/2025	17:45	PS031136.D	7.77	0.00
TP-98	Q2529-05	07/18/2025	18:09	PS031137.D	7.77	0.00
TP-102	Q2529-06	07/18/2025	18:33	PS031138.D	7.77	0.00
TP-101	Q2529-07	07/18/2025	18:57	PS031139.D	7.77	0.00
TP-89	Q2529-08	07/18/2025	19:21	PS031140.D	7.77	0.00
TP-33	Q2529-09	07/18/2025	19:46	PS031141.D	7.77	0.00
TP-30	Q2529-10	07/18/2025	20:10	PS031142.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
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.:** Q2529

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.:** Q2529

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.:** Q2529

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	