



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

LAB CHRONICLE

OrderID:	P4962	OrderDate:	11/22/2024 10:47:29 AM
Client:	Tetra Tech, EMI	Project:	R36767
Contact:	Ava Heiss	Location:	L61

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4962-01	CONB8	TCLP	TCLP Herbicide	8151A	11/20/24	11/26/24	11/26/24	11/22/24

Hit Summary Sheet
SW-846

SDG No.: P4962

Order ID: P4962

Client: Tetra Tech, EMI

Project ID: R36767

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
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Client ID :

Total Concentration: 0.000

A
B
C
D
E
F
G
H



SAMPLE DATA

Report of Analysis

Client:	Tetra Tech, EMI		Date Collected:	11/20/24	
Project:	R36767		Date Received:	11/22/24	
Client Sample ID:	C0NB8		SDG No.:	P4962	
Lab Sample ID:	P4962-01		Matrix:	TCLP	
Analytical Method:	SW8151A		% Solid:	0	Decanted:
Sample Wt/Vol:	100	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	TCLP 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
PS028652.D	1	11/26/24 11:10	11/26/24 22:25	PB165273

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	4.90	U	4.90	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	4.50	U	4.50	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	245		39 - 175	49%	SPK: 500

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

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

Report of Analysis

Client:	Tetra Tech, EMI		Date Collected:		
Project:	R36767		Date Received:	11/26/24	
Client Sample ID:	PB165159TB		SDG No.:	P4962	
Lab Sample ID:	PB165159TB		Matrix:	TCLP	
Analytical Method:	SW8151A		% Solid:	0	Decanted:
Sample Wt/Vol:	100	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	TCLP 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
PS028646.D	1	11/26/24 11:10	11/26/24 20:01	PB165273

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	4.90	U	4.90	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	4.50	U	4.50	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	274		39 - 175	55%	SPK: 500

Comments:

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QC SUMMARY

Surrogate Summary

SDG No.: **P4962**

Client: **Tetra Tech, EMI**

Analytical Method: **8151A**

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	High
I.BLK-PS028631.D	PIBLK-PS028631.D	2,4-DCAA	1	500	492	98		39	175
		2,4-DCAA	2	500	492	98		39	175
I.BLK-PS028638.D	PIBLK-PS028638.D	2,4-DCAA	1	500	484	97		39	175
		2,4-DCAA	2	500	483	97		39	175
PB165273BL	PB165273BL	2,4-DCAA	1	500	508	102		39	175
		2,4-DCAA	2	500	497	99		39	175
PB165273BS	PB165273BS	2,4-DCAA	1	500	491	98		39	175
		2,4-DCAA	2	500	491	98		39	175
PB165159TB	PB165159TB	2,4-DCAA	1	500	274	55		39	175
		2,4-DCAA	2	500	267	53		39	175
I.BLK-PS028647.D	PIBLK-PS028647.D	2,4-DCAA	1	500	496	99		39	175
		2,4-DCAA	2	500	502	100		39	175
P4961-01MS	C0RB8MS	2,4-DCAA	1	500	181	36	*	39	175
		2,4-DCAA	2	500	179	36	*	39	175
P4961-01MSD	C0RB8MSD	2,4-DCAA	1	500	183	37	*	39	175
		2,4-DCAA	2	500	178	36	*	39	175
P4962-01	C0NB8	2,4-DCAA	1	500	245	49		39	175
		2,4-DCAA	2	500	231	46		39	175
I.BLK-PS028654.D	PIBLK-PS028654.D	2,4-DCAA	1	500	493	99		39	175
		2,4-DCAA	2	500	498	100		39	175

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4962

Client: Tetra Tech, EMI

Analytical Method: 8151A

DataFile : PS028650.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Client Sample ID: P4961-01MS	C0RB8MS											
	2,4-D	50	0	46.4	ug/L	93				65	135	
	2,4,5-TP(Silvex)	50	0	77.4	ug/L	155	*			62	139	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4962

Client: Tetra Tech, EMI

Analytical Method: 8151A

DataFile : PS028651.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Client Sample ID: P4961-01MSD	C0RB8MSD											
	2,4-D	50	0	47.5	ug/L	95		2		65	135	20
	2,4,5-TP(Silvex)	50	0	78.2	ug/L	156	*	1		62	139	20



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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4962

Client: Tetra Tech, EMI

Analytical Method: 8151A Datafile : PS028645.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD		Limits	
								Qual	Low	High	RPD
PB165273BS	2,4-D	5	4.90	ug/L	98				83	130	
	2,4,5-TP(Silvex)	5	4.70	ug/L	94				78	127	

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165273BL

Lab Name: CHEMTECH

Contract: TETR16

Lab Code: CHEM Case No.: P4962

SAS No.: P4962 SDG NO.: P4962

Lab Sample ID: PB165273BL

Lab File ID: PS028644.D

Matrix: (soil/water) water

Extraction: (Type) _____

Sulfur Cleanup: (Y/N) N

Date Extracted: 11/26/2024

Date Analyzed (1): 11/26/2024

Date Analyzed (2): 11/26/2024

Time Analyzed (1): 19:13

Time Analyzed (2): 19:13

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
PB165273BS	PB165273BS	PS028645.D	11/26/2024	11/26/2024
PB165159TB	PB165159TB	PS028646.D	11/26/2024	11/26/2024
C0RB8MS	P4961-01MS	PS028650.D	11/26/2024	11/26/2024
C0RB8MSD	P4961-01MSD	PS028651.D	11/26/2024	11/26/2024
C0NB8	P4962-01	PS028652.D	11/26/2024	11/26/2024

COMMENTS: _____



QC SAMPLE DATA

Report of Analysis

Client:	Tetra Tech, EMI		Date Collected:		
Project:	R36767		Date Received:		
Client Sample ID:	PB165273BL		SDG No.:	P4962	
Lab Sample ID:	PB165273BL		Matrix:	TCLP	
Analytical Method:	SW8151A		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	TCLP 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
PS028644.D	1	11/26/24 11:10	11/26/24 19:13	PB165273

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.49	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.45	U	0.45	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	508		39 - 175	102%	SPK: 500

Comments:

U = Not Detected

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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

Report of Analysis

Client:	Tetra Tech, EMI		Date Collected:	11/26/24	
Project:	R36767		Date Received:	11/26/24	
Client Sample ID:	PIBLK-PS028631.D		SDG No.:	P4962	
Lab Sample ID:	I.BLK-PS028631.D		Matrix:	TCLP	
Analytical Method:	SW8151A		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	TCLP 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
PS028631.D	1		11/26/24	PS112624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.49	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.45	U	0.45	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	492		39 - 175	98%	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

Report of Analysis

Client:	Tetra Tech, EMI		Date Collected:	11/26/24	
Project:	R36767		Date Received:	11/26/24	
Client Sample ID:	PIBLK-PS028638.D		SDG No.:	P4962	
Lab Sample ID:	I.BLK-PS028638.D		Matrix:	TCLP	
Analytical Method:	SW8151A		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	TCLP 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
PS028638.D	1		11/26/24	PS112624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.49	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.45	U	0.45	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	484		39 - 175	97%	SPK: 500

Comments:

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MDL = Method Detection Limit

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

Report of Analysis

Client:	Tetra Tech, EMI		Date Collected:	11/26/24	
Project:	R36767		Date Received:	11/26/24	
Client Sample ID:	PIBLK-PS028647.D		SDG No.:	P4962	
Lab Sample ID:	I.BLK-PS028647.D		Matrix:	TCLP	
Analytical Method:	SW8151A		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	TCLP 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
PS028647.D	1		11/26/24	PS112624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.49	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.45	U	0.45	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	502		39 - 175	100%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

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LOD = Limit of Detection

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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

Report of Analysis

Client:	Tetra Tech, EMI		Date Collected:	11/26/24	
Project:	R36767		Date Received:	11/26/24	
Client Sample ID:	PIBLK-PS028654.D		SDG No.:	P4962	
Lab Sample ID:	I.BLK-PS028654.D		Matrix:	TCLP	
Analytical Method:	SW8151A		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	TCLP 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
PS028654.D	1		11/26/24	PS112624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.49	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.45	U	0.45	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	498		39 - 175	100%	SPK: 500

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N = Presumptive Evidence of a Compound

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D = Dilution

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() = Laboratory InHouse Limit

Report of Analysis

Client:	Tetra Tech, EMI		Date Collected:		
Project:	R36767		Date Received:		
Client Sample ID:	PB165273BS		SDG No.:	P4962	
Lab Sample ID:	PB165273BS		Matrix:	TCLP	
Analytical Method:	SW8151A		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	TCLP 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
PS028645.D	1	11/26/24 11:10	11/26/24 19:37	PB165273

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	4.90		0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	4.70		0.45	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	491		39 - 175	98%	SPK: 500

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Report of Analysis

Client:	Tetra Tech, EMI		Date Collected:	11/20/24	
Project:	R36767		Date Received:	11/22/24	
Client Sample ID:	C0RB8MS		SDG No.:	P4962	
Lab Sample ID:	P4961-01MS		Matrix:	TCLP	
Analytical Method:	SW8151A		% Solid:	0	Decanted:
Sample Wt/Vol:	100	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	TCLP 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
PS028650.D	1	11/26/24 11:10	11/26/24 21:37	PB165273

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	46.4		4.90	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	77.4	P	4.50	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	181	*	39 - 175	36%	SPK: 500

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Report of Analysis

Client:	Tetra Tech, EMI		Date Collected:	11/20/24	
Project:	R36767		Date Received:	11/22/24	
Client Sample ID:	C0RB8MSD		SDG No.:	P4962	
Lab Sample ID:	P4961-01MSD		Matrix:	TCLP	
Analytical Method:	SW8151A		% Solid:	0	Decanted:
Sample Wt/Vol:	100	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	TCLP 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
PS028651.D	1	11/26/24 11:10	11/26/24 22:01	PB165273

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	47.5		4.90	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	78.2	P	4.50	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	183	*	39 - 175	37%	SPK: 500

Comments:

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CALIBRATION SUMMARY

RETENTION TIMES OF INITIAL CALIBRATION

Contract:	<u>TETR16</u>						
Lab Code:	<u>CHEM</u>	Case No.:	<u>P4962</u>	SAS No.:	<u>P4962</u>	SDG NO.:	<u>P4962</u>
Instrument ID:	<u>ECD_S</u>	Calibration Date(s):		<u>11/26/2024</u>	<u>11/26/2024</u>		
		Calibration Times:		<u>12:48</u>	<u>14:25</u>		

GC Column: RTX-CLP ID: 0.32 (mm)

LAB FILE ID:	RT 200 =	<u>PS028632.D</u>	RT 500 =	<u>PS028633.D</u>
	RT 750 =	PS028634.D	RT 1000 =	PS028635.D
			RT 1500 =	PS028636.D

[illegible]

RETENTION TIMES OF INITIAL CALIBRATION

Contract: TETR16

Lab Code: CHEM Case No.: P4962 SAS No.: P4962 SDG NO.: P4962

Instrument ID: ECD_S Calibration Date(s): 11/26/2024 11/26/2024

Calibration Times: 12:48 14:25

GC Column: RTX-CLP2 ID: 0.32 (mm)

LAB FILE ID:	RT 200 = <u>PS028632.D</u>	RT 500 = <u>PS028633.D</u>
	RT 750 = <u>PS028634.D</u>	RT 1000 = <u>PS028635.D</u>
		RT 1500 = <u>PS028636.D</u>

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW FROM TO	
2,4,5-TP(Silvex)	9.87	9.87	9.87	9.87	9.87	9.87	9.77	9.97
2,4-D	8.97	8.97	8.97	8.97	8.97	8.97	8.87	9.07
2,4-DCAA	7.73	7.72	7.72	7.73	7.73	7.72	7.62	7.82

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: TETR16

Lab Code: CHEM **Case No.:** P4962 **SAS No.:** P4962 **SDG NO.:** P4962

Instrument ID: ECD_S **Calibration Date(s):** 11/26/2024 11/26/2024
Calibration Times: 12:48 14:25

GC Column: RTX-CLP **ID:** 0.32 (mm)

LAB FILE ID:		CF 200 = <u>PS028632.D</u>		CF 500 = <u>PS028633.D</u>			
CF 750 = <u>PS028634.D</u>		CF 1000 = <u>PS028635.D</u>		CF 1500 = <u>PS028636.D</u>			
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-TP(Silvex)	20271400000	18910000000	18123500000	17499500000	16594600000	18279800000	8
2,4-D	3843050000	3484790000	3301520000	3180130000	3051260000	3372150000	9
2,4-DCAA	2980930000	2776190000	2647410000	2550090000	2457090000	2682340000	8

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: TETR16

Lab Code: CHEM **Case No.:** P4962 **SAS No.:** P4962 **SDG NO.:** P4962

Instrument ID: ECD_S **Calibration Date(s):** 11/26/2024 11/26/2024
Calibration Times: 12:48 14:25

GC Column: RTX-CLP2 **ID:** 0.32 (mm)

LAB FILE ID:		CF 200 =	<u>PS028632.D</u>	CF 500 =	<u>PS028633.D</u>		
CF 750 =		<u>PS028634.D</u>	CF 1000 =	<u>PS028635.D</u>	CF 1500 =	<u>PS028636.D</u>	
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-TP(Silvex)	9649960000	9698620000	9598260000	9499290000	9266470000	9542520000	2
2,4-D	1782570000	1704130000	1676500000	1652880000	1638760000	1690970000	3
2,4-DCAA	1414130000	1352070000	1334210000	1323400000	1311340000	1347030000	3

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM Case No.: P4962 SAS No.: P4962 SDG NO.: P4962

Continuing Calib Date: 11/26/2024 Initial Calibration Date(s): 11/26/2024 11/26/2024

Continuing Calib Time: 16:01 Initial Calibration Time(s): 12:48 14:25

GC Column: RTX-CLP ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
2,4-DCAA	7.23	7.23	7.13	7.33	0.00
2,4-D	8.35	8.35	8.25	8.45	0.00
2,4,5-TP(Silvex)	9.23	9.23	9.13	9.33	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM **Case No.:** P4962 **SAS No.:** P4962 **SDG NO.:** P4962

Continuing Calib Date: 11/26/2024 **Initial Calibration Date(s):** 11/26/2024 11/26/2024

Continuing Calib Time: 16:01 **Initial Calibration Time(s):** 12:48 14:25

GC Column: RTX-CLP2 **ID:** 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
2,4-DCAA	7.72	7.72	7.62	7.82	0.00
2,4-D	8.97	8.97	8.87	9.07	0.00
2,4,5-TP(Silvex)	9.87	9.87	9.77	9.97	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM Case No.: P4962 SAS No.: P4962 SDG NO.: P4962

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 11/26/2024 11/26/2024

Client Sample No.: CCAL01 Date Analyzed: 11/26/2024

Lab Sample No.: HSTDCCC750 Data File : PS028639.D Time Analyzed: 16:01

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-TP(Silvex)	9.227	9.128	9.328	708.020	712.500	-0.6
2,4-D	8.350	8.251	8.451	691.320	705.000	-1.9
2,4-DCAA	7.226	7.126	7.326	740.220	750.000	-1.3

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM Case No.: P4962 SAS No.: P4962 SDG NO.: P4962

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 11/26/2024 11/26/2024

Client Sample No.: CCAL01 Date Analyzed: 11/26/2024

Lab Sample No.: HSTDCCC750 Data File : PS028639.D Time Analyzed: 16:01

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.873	9.773	9.973	720.270	712.500	1.1
2,4-D	8.968	8.869	9.069	700.640	705.000	-0.6
2,4-DCAA	7.724	7.624	7.824	743.470	750.000	-0.9

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM **Case No.:** P4962 **SAS No.:** P4962 **SDG NO.:** P4962

Continuing Calib Date: 11/26/2024 **Initial Calibration Date(s):** 11/26/2024 11/26/2024

Continuing Calib Time: 20:49 **Initial Calibration Time(s):** 12:48 14:25

GC Column: RTX-CLP **ID:** 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
2,4-DCAA	7.23	7.23	7.13	7.33	0.00
2,4-D	8.35	8.35	8.25	8.45	0.00
2,4,5-TP(Silvex)	9.23	9.23	9.13	9.33	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM **Case No.:** P4962 **SAS No.:** P4962 **SDG NO.:** P4962

Continuing Calib Date: 11/26/2024 **Initial Calibration Date(s):** 11/26/2024 11/26/2024

Continuing Calib Time: 20:49 **Initial Calibration Time(s):** 12:48 14:25

GC Column: RTX-CLP2 **ID:** 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
2,4-DCAA	7.72	7.72	7.62	7.82	0.00
2,4-D	8.97	8.97	8.87	9.07	0.00
2,4,5-TP(Silvex)	9.87	9.87	9.77	9.97	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM Case No.: P4962 SAS No.: P4962 SDG NO.: P4962

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 11/26/2024 11/26/2024

Client Sample No.: CCAL02 Date Analyzed: 11/26/2024

Lab Sample No.: HSTDCCC750 Data File : PS028648.D Time Analyzed: 20:49

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-TP(Silvex)	9.228	9.128	9.328	707.630	712.500	-0.7
2,4-D	8.351	8.251	8.451	689.170	705.000	-2.2
2,4-DCAA	7.227	7.126	7.326	744.540	750.000	-0.7

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM Case No.: P4962 SAS No.: P4962 SDG NO.: P4962

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 11/26/2024 11/26/2024

Client Sample No.: CCAL02 Date Analyzed: 11/26/2024

Lab Sample No.: HSTDCCC750 Data File : PS028648.D Time Analyzed: 20:49

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.872	9.773	9.973	727.030	712.500	2.0
2,4-D	8.968	8.869	9.069	711.090	705.000	0.9
2,4-DCAA	7.723	7.624	7.824	752.870	750.000	0.4

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM **Case No.:** P4962 **SAS No.:** P4962 **SDG NO.:** P4962

Continuing Calib Date: 11/26/2024 **Initial Calibration Date(s):** 11/26/2024 11/26/2024

Continuing Calib Time: 23:37 **Initial Calibration Time(s):** 12:48 14:25

GC Column: RTX-CLP **ID:** 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
2,4-DCAA	7.23	7.23	7.13	7.33	0.00
2,4-D	8.35	8.35	8.25	8.45	0.00
2,4,5-TP(Silvex)	9.23	9.23	9.13	9.33	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM **Case No.:** P4962 **SAS No.:** P4962 **SDG NO.:** P4962

Continuing Calib Date: 11/26/2024 **Initial Calibration Date(s):** 11/26/2024 11/26/2024

Continuing Calib Time: 23:37 **Initial Calibration Time(s):** 12:48 14:25

GC Column: RTX-CLP2 **ID:** 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
2,4-DCAA	7.72	7.72	7.62	7.82	0.00
2,4-D	8.97	8.97	8.87	9.07	0.00
2,4,5-TP(Silvex)	9.87	9.87	9.77	9.97	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM Case No.: P4962 SAS No.: P4962 SDG NO.: P4962

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 11/26/2024 11/26/2024

Client Sample No.: CCAL03 Date Analyzed: 11/26/2024

Lab Sample No.: HSTDCCC750 Data File : PS028655.D Time Analyzed: 23:37

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-TP(Silvex)	9.228	9.128	9.328	712.830	712.500	0.0
2,4-D	8.351	8.251	8.451	693.910	705.000	-1.6
2,4-DCAA	7.226	7.126	7.326	734.170	750.000	-2.1

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM Case No.: P4962 SAS No.: P4962 SDG NO.: P4962

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 11/26/2024 11/26/2024

Client Sample No.: CCAL03 Date Analyzed: 11/26/2024

Lab Sample No.: HSTDCCC750 Data File : PS028655.D Time Analyzed: 23:37

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.871	9.773	9.973	729.110	712.500	2.3
2,4-D	8.968	8.869	9.069	715.560	705.000	1.5
2,4-DCAA	7.724	7.624	7.824	752.570	750.000	0.3

Analytical Sequence

Client: Tetra Tech, EMI	SDG No.: P4962	
Project: R36767	Instrument ID: ECD_S	
GC Column: RTX-CLP	ID: 0.32 (mm)	Inst. Calib. Date(s): 11/26/2024 11/26/2024

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

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCAA RT #	RT #
1.BLK	1.BLK	11/26/2024	12:24	PS028631.D	7.23	0.00
HSTDICC200	HSTDICC200	11/26/2024	12:48	PS028632.D	7.23	0.00
HSTDICC500	HSTDICC500	11/26/2024	13:13	PS028633.D	7.23	0.00
HSTDICC750	HSTDICC750	11/26/2024	13:37	PS028634.D	7.23	0.00
HSTDICC1000	HSTDICC1000	11/26/2024	14:01	PS028635.D	7.23	0.00
HSTDICC1500	HSTDICC1500	11/26/2024	14:25	PS028636.D	7.23	0.00
1.BLK	1.BLK	11/26/2024	15:37	PS028638.D	7.23	0.00
HSTDCCC750	HSTDCCC750	11/26/2024	16:01	PS028639.D	7.23	0.00
PB165273BL	PB165273BL	11/26/2024	19:13	PS028644.D	7.23	0.00
PB165273BS	PB165273BS	11/26/2024	19:37	PS028645.D	7.23	0.00
PB165159TB	PB165159TB	11/26/2024	20:01	PS028646.D	7.23	0.00
1.BLK	1.BLK	11/26/2024	20:25	PS028647.D	7.23	0.00
HSTDCCC750	HSTDCCC750	11/26/2024	20:49	PS028648.D	7.23	0.00
C0RB8MS	P4961-01MS	11/26/2024	21:37	PS028650.D	7.23	0.00
C0RB8MSD	P4961-01MSD	11/26/2024	22:01	PS028651.D	7.23	0.00
C0NB8	P4962-01	11/26/2024	22:25	PS028652.D	7.23	0.00
1.BLK	1.BLK	11/26/2024	23:13	PS028654.D	7.23	0.00
HSTDCCC750	HSTDCCC750	11/26/2024	23:37	PS028655.D	7.23	0.00

Analytical Sequence

Client: Tetra Tech, EMI	SDG No.: P4962
Project: R36767	Instrument ID: ECD_S
GC Column: RTX-CLP2	ID: 0.32 (mm) Inst. Calib. Date(s): 11/26/2024 11/26/2024

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

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCAA RT #	RT #
1.BLK	1.BLK	11/26/2024	12:24	PS028631.D	7.72	0.00
HSTDICC200	HSTDICC200	11/26/2024	12:48	PS028632.D	7.73	0.00
HSTDICC500	HSTDICC500	11/26/2024	13:13	PS028633.D	7.72	0.00
HSTDICC750	HSTDICC750	11/26/2024	13:37	PS028634.D	7.72	0.00
HSTDICC1000	HSTDICC1000	11/26/2024	14:01	PS028635.D	7.73	0.00
HSTDICC1500	HSTDICC1500	11/26/2024	14:25	PS028636.D	7.73	0.00
1.BLK	1.BLK	11/26/2024	15:37	PS028638.D	7.72	0.00
HSTDCCC750	HSTDCCC750	11/26/2024	16:01	PS028639.D	7.72	0.00
PB165273BL	PB165273BL	11/26/2024	19:13	PS028644.D	7.72	0.00
PB165273BS	PB165273BS	11/26/2024	19:37	PS028645.D	7.72	0.00
PB165159TB	PB165159TB	11/26/2024	20:01	PS028646.D	7.72	0.00
1.BLK	1.BLK	11/26/2024	20:25	PS028647.D	7.72	0.00
HSTDCCC750	HSTDCCC750	11/26/2024	20:49	PS028648.D	7.72	0.00
C0RB8MS	P4961-01MS	11/26/2024	21:37	PS028650.D	7.72	0.00
C0RB8MSD	P4961-01MSD	11/26/2024	22:01	PS028651.D	7.72	0.00
C0NB8	P4962-01	11/26/2024	22:25	PS028652.D	7.72	0.00
1.BLK	1.BLK	11/26/2024	23:13	PS028654.D	7.72	0.00
HSTDCCC750	HSTDCCC750	11/26/2024	23:37	PS028655.D	7.72	0.00

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

C0RB8MS

Contract: TETR16

Lab Code: CHEM Case No.: P4962 SAS No.: P4962 SDG NO.: P4962

Lab Sample ID: P4961-01MS Date(s) Analyzed: 11/26/2024 11/26/2024

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		CONCENTRATION	%RPD
			FROM	TO		
2,4-D	1	8.35	8.30	8.40	46.0	0.9
	2	8.97	8.92	9.02	46.4	
2,4,5-TP(Silvex)	1	9.23	9.18	9.28	43.0	57.1
	2	9.88	9.83	9.93	77.4	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

C0RB8MSD

Contract: TETR16

Lab Code: CHEM Case No.: P4962 SAS No.: P4962 SDG NO.: P4962

Lab Sample ID: P4961-01MSD Date(s) Analyzed: 11/26/2024 11/26/2024

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		CONCENTRATION	%RPD
			FROM	TO		
2,4-D	1	8.35	8.30	8.40	46.1	3
	2	8.97	8.92	9.02	47.5	
2,4,5-TP(Silvex)	1	9.23	9.18	9.28	43.4	57.2
	2	9.88	9.83	9.93	78.2	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB165273BS

Contract: TETR16

Lab Code: CHEM Case No.: P4962 SAS No.: P4962 SDG NO.: P4962

Lab Sample ID: PB165273BS Date(s) Analyzed: 11/26/2024 11/26/2024

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		CONCENTRATION	%RPD
			FROM	TO		
2,4-D	1	8.35	8.30	8.40	4.90	0
	2	8.97	8.92	9.02	4.90	
2,4,5-TP(Silvex)	1	9.23	9.18	9.28	4.70	0
	2	9.87	9.82	9.92	4.70	