284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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ANALYTICAL RESULTS SUMMARY

GC SEMI-VOLATILES

PROJECT NAME : R36724

TETRA TECH, EMI

240 Continental Drive, Suite 200

Newark, DE - 19713

Phone No: 302-738-7551

ORDER ID : P4462

ATTENTION : Ava Heiss

Laboratory Certification ID # 20012

Table Of Contents for P4462

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Cover Page

Order ID : P4462

Project ID : R36724

Client : Tetra Tech, EMI

Lab Sample Number	Client Sample Number
P4462-02	C0AL2

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

Signature : _____ Date: 11/4/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Tetra Tech, EMI
Project Name: R36724
Project # N/A
Chemtech Project # P4462
Test Name: TCLP Herbicide

A. Number of Samples and Date of Receipt:
1 Water sample was received on 10/19/2024.

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

C. Analytical Techniques:
The analysis was performed on instrument ECD_S. The front column is RTX-CLPesticides which is 30 meters, 0.32 mm ID, 0. 5 um df,: Catalog # 11139. The rear column is RTX-CLPesticides2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 11324The analysis of TCLP Herbicides was based on method 8151A and extraction was done based on method 3510 and TCLP extraction method was 1311.

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

The Surrogate recoveries met the acceptable criteria except for WB-301-BOTMS [2,4-DCAA(1) - 28%, 2,4-DCAA(2) - 23%], WB-301-BOTMSD [2,4-DCAA(1) - 28%, 2 and4-DCAA(2) - 22%]due to matrix interference.

The Retention Times were acceptable for all samples.

The MS {P4397-06MS} with File ID: PS028042.D recoveries met the requirements for all compounds except for 2,4,5-TP(Silvex)[212%] due to matrix interference.

The MSD {P4397-06MSD} with File ID: PS028043.D recoveries met the acceptable requirements except for 2,4,5-TP(Silvex)[226%] due to matrix interference.

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

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E. Additional Comments:

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

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

Signature_____

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908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- ORGANIC

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

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

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P4462

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

QA Review Signature: SOHIL JODHANI **Date:** 11/04/2024

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LAB CHRONICLE

OrderID:	P4462	**OrderDate:**	10/21/2024 10:30:18 AM
Client:	Tetra Tech, EMI	**Project:**	R36724
Contact:	Ava Heiss	**Location:**	K51

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4462-02	**C0AL2**	**TCLP**			**10/17/24**			**10/19/24**
			TCLP Herbicide	8151A		10/24/24	10/24/24	

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Hit Summary Sheet
SW-846

SDG No.: P4462 **Order ID:** P4462

Client: Tetra Tech, EMI **Project ID:** R36724

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

Client ID :

Total Concentration: 0.000

SAMPLE DATA

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Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	10/17/24
Project:	R36724	Date Received:	10/19/24
Client Sample ID:	C0AL2	SDG No.:	P4462
Lab Sample ID:	P4462-02	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
PS028045.D	1	10/24/24 11:28	10/24/24 20:20	PB164378

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	411		39 - 175	82%	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:	Tetra Tech, EMI	Date Collected:	
Project:	R36724	Date Received:	10/24/24
Client Sample ID:	PB164336TB	SDG No.:	P4462
Lab Sample ID:	PB164336TB	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
PS028074.D	1	10/24/24 11:28	10/28/24 13:35	PB164378

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	345		39 - 175	69%	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.: P4462

Client: Tetra Tech, EMI

Analytical Method: 8151A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PS028007.D	PIBLK-PS028007.D	2,4-DCAA	1	500	489	98		39	175
		2,4-DCAA	2	500	461	92		39	175
I.BLK-PS028035.D	PIBLK-PS028035.D	2,4-DCAA	1	500	508	102		39	175
		2,4-DCAA	2	500	489	98		39	175
PB164378BL	PB164378BL	2,4-DCAA	1	500	510	102		39	175
		2,4-DCAA	2	500	516	103		39	175
PB164378BS	PB164378BS	2,4-DCAA	1	500	506	101		39	175
		2,4-DCAA	2	500	542	108		39	175
P4397-06MS	WB-301-BOTMS	2,4-DCAA	1	500	138	28	*	39	175
		2,4-DCAA	2	500	114	23	*	39	175
P4397-06MSD	WB-301-BOTMSD	2,4-DCAA	1	500	142	28	*	39	175
		2,4-DCAA	2	500	111	22	*	39	175
P4462-02	C0AL2	2,4-DCAA	1	500	411	82		39	175
		2,4-DCAA	2	500	366	73		39	175
I.BLK-PS028046.D	PIBLK-PS028046.D	2,4-DCAA	1	500	506	101		39	175
		2,4-DCAA	2	500	479	96		39	175
I.BLK-PS028071.D	PIBLK-PS028071.D	2,4-DCAA	1	500	501	100		39	175
		2,4-DCAA	2	500	483	97		39	175
PB164336TB	PB164336TB	2,4-DCAA	1	500	345	69		39	175
		2,4-DCAA	2	500	287	57		39	175
I.BLK-PS028075.D	PIBLK-PS028075.D	2,4-DCAA	1	500	508	102		39	175
		2,4-DCAA	2	500	418	84		39	175

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4462

Client: Tetra Tech, EMI

Analytical Method: 8151A **DataFile :** PS028042.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Client Sample ID:	**WB-301-BOTMS**											
P4397-06MS	2,4-D	50	0	55.2	ug/L	110				65	135	
	2,4,5-TP(Silvex)	50	0	106	ug/L	212	*			62	139	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4462

Client: Tetra Tech, EMI

Analytical Method: 8151A **DataFile :** PS028043.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**WB-301-BOTMSD**											
P4397-06MSD	2,4-D	50	0	56.6	ug/L	113		3		65	135	20
	2,4,5-TP(Silvex)	50	0	113	ug/L	226	*	6		62	139	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4462

Client: Tetra Tech, EMI

Analytical Method: 8151A **Datafile :** PS028038.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB164378BS	2,4-D	5	5.00	ug/L	100				83	130	
	2,4,5-TP(Silvex)	5	5.40	ug/L	108				78	127	

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164378BL

Lab Name: CHEMTECH Contract: TETR16

Lab Code: CHEM Case No.: P4462 SAS No.: P4462 SDG NO.: P4462

Lab Sample ID: PB164378BL Lab File ID: PS028037.D

Matrix: (soil/water) water Extraction: (Type)

Sulfur Cleanup: (Y/N) N Date Extracted: 10/24/2024

Date Analyzed (1): 10/24/2024 Date Analyzed (2): 10/24/2024

Time Analyzed (1): 17:09 Time Analyzed (2): 17:09

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
PB164378BS	PB164378BS	PS028038.D	10/24/2024	10/24/2024
WB-301-BOTMS	P4397-06MS	PS028042.D	10/24/2024	10/24/2024
WB-301-BOTMSD	P4397-06MSD	PS028043.D	10/24/2024	10/24/2024
C0AL2	P4462-02	PS028045.D	10/24/2024	10/24/2024
PB164336TB	PB164336TB	PS028074.D	10/28/2024	10/28/2024

COMMENTS:

QC SAMPLE DATA

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Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	
Project:	R36724	Date Received:	
Client Sample ID:	PB164378BL	SDG No.:	P4462
Lab Sample ID:	PB164378BL	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
PS028037.D	1	10/24/24 11:28	10/24/24 17:09	PB164378

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	516		39 - 175	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:	Tetra Tech, EMI	Date Collected:	10/23/24
Project:	R36724	Date Received:	10/23/24
Client Sample ID:	PIBLK-PS028007.D	SDG No.:	P4462
Lab Sample ID:	I.BLK-PS028007.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
PS028007.D	1		10/23/24	PS102324

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	489		39 - 175	98%	SPK: 500

Comments:

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Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	10/24/24
Project:	R36724	Date Received:	10/24/24
Client Sample ID:	PIBLK-PS028035.D	SDG No.:	P4462
Lab Sample ID:	I.BLK-PS028035.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
PS028035.D	1		10/24/24	PS102424

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:

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M = MS/MSD acceptance criteria did not meet requirements

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Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	10/24/24
Project:	R36724	Date Received:	10/24/24
Client Sample ID:	PIBLK-PS028046.D	SDG No.:	P4462
Lab Sample ID:	I.BLK-PS028046.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
PS028046.D	1		10/24/24	PS102424

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	506		39 - 175	101%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
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Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	10/28/24
Project:	R36724	Date Received:	10/28/24
Client Sample ID:	PIBLK-PS028071.D	SDG No.:	P4462
Lab Sample ID:	I.BLK-PS028071.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
PS028071.D	1		10/28/24	PS102824

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	501		39 - 175	100%	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:	Tetra Tech, EMI	Date Collected:	10/28/24
Project:	R36724	Date Received:	10/28/24
Client Sample ID:	PIBLK-PS028075.D	SDG No.:	P4462
Lab Sample ID:	I.BLK-PS028075.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
PS028075.D	1		10/28/24	PS102824

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
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:	Tetra Tech, EMI	Date Collected:	
Project:	R36724	Date Received:	
Client Sample ID:	PB164378BS	SDG No.:	P4462
Lab Sample ID:	PB164378BS	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
PS028038.D	1	10/24/24 11:28	10/24/24 17:33	PB164378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	5.00		0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	5.40		0.45	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	542		39 - 175	108%	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:	Tetra Tech, EMI	Date Collected:	10/10/24
Project:	R36724	Date Received:	10/11/24
Client Sample ID:	WB-301-BOTMS	SDG No.:	P4462
Lab Sample ID:	P4397-06MS	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
PS028042.D	1	10/24/24 11:28	10/24/24 19:09	PB164378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	55.2		4.90	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	106	P	4.50	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	138	*	39 - 175	28%	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:	Tetra Tech, EMI	Date Collected:	10/10/24
Project:	R36724	Date Received:	10/11/24
Client Sample ID:	WB-301-BOTMSD	SDG No.:	P4462
Lab Sample ID:	P4397-06MSD	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
PS028043.D	1	10/24/24 11:28	10/24/24 19:32	PB164378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	56.6		4.90	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	113	P	4.50	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	142	*	39 - 175	28%	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

Contract: TETR16

Lab Code: CHEM **Case No.:** P4462 **SAS No.:** P4462 **SDG NO.:** P4462

Instrument ID: ECD_S **Calibration Date(s):** 10/23/2024 10/23/2024

Calibration Times: 11:28 13:04

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

LAB FILE ID: RT 200 = PS028008.D RT 500 = PS028009.D

RT 750 = PS028010.D RT 1000 = PS028011.D RT 1500 = PS028012.D

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW FROM	RT WINDOW TO
2,4,5-TP(Silvex)	9.03	9.03	9.03	9.03	9.03	9.03	8.93	9.13
2,4-D	8.18	8.18	8.18	8.18	8.18	8.18	8.08	8.28
2,4-DCAA	7.09	7.09	7.09	7.09	7.09	7.09	6.99	7.19

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: TETR16

Lab Code: CHEM **Case No.:** P4462 **SAS No.:** P4462 **SDG NO.:** P4462

Instrument ID: ECD_S **Calibration Date(s):** 10/23/2024 10/23/2024

Calibration Times: 11:28 13:04

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

LAB FILE ID: RT 200 = PS028008.D RT 500 = PS028009.D

RT 750 = PS028010.D RT 1000 = PS028011.D RT 1500 = PS028012.D

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW FROM	RT WINDOW TO
2,4,5-TP(Silvex)	9.73	9.73	9.73	9.73	9.72	9.73	9.63	9.83
2,4-D	8.84	8.84	8.84	8.84	8.84	8.84	8.74	8.94
2,4-DCAA	7.61	7.62	7.61	7.62	7.61	7.61	7.51	7.71

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: TETR16

Lab Code: CHEM **Case No.:** P4462 **SAS No.:** P4462 **SDG NO.:** P4462

Instrument ID: ECD_S **Calibration Date(s):** 10/23/2024 10/23/2024

Calibration Times: 11:28 13:04

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

LAB FILE ID: **CF 200 =** PS028008.D **CF 500 =** PS028009.D

CF 750 = PS028010.D **CF 1000 =** PS028011.D **CF 1500 =** PS028012.D

COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-TP(Silvex)	19584000000	16293000000	15358800000	15287500000	14230600000	16150800000	13
2,4-D	4140980000	3388880000	3183890000	3192570000	3036110000	3388490000	13
2,4-DCAA	3343560000	2711910000	2549070000	2475610000	2404680000	2696970000	14

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: TETR16

Lab Code: CHEM **Case No.:** P4462 **SAS No.:** P4462 **SDG NO.:** P4462

Instrument ID: ECD_S **Calibration Date(s):** 10/23/2024 10/23/2024

Calibration Times: 11:28 13:04

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

LAB FILE ID: **CF 200 =** PS028008.D **CF 500 =** PS028009.D

CF 750 = PS028010.D **CF 1000 =** PS028011.D **CF 1500 =** PS028012.D

COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-TP(Silvex)	4575720000	4585960000	4376840000	4595510000	4689140000	4564630000	3
2,4-D	1125240000	990045000	959343000	966564000	944531000	997145000	7
2,4-DCAA	1149150000	929743000	912345000	889645000	862510000	948678000	12

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: TETR16

Lab Code: CHEM **Case No.:** P4462 **SAS No.:** P4462 **SDG NO.:** P4462

Instrument ID: _____ **Date(s) Analyzed:** _____ _____

GC Column: _____ **ID:** _____ (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
		1				
		2				
		3				
		4				
		5				

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM **Case No.:** P4462 **SAS No.:** P4462 **SDG NO.:** P4462

Continuing Calib Date: 10/24/2024 **Initial Calibration Date(s):** 10/23/2024 10/23/2024

Continuing Calib Time: 11:25 **Initial Calibration Time(s):** 11:28 13:04

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.09	7.09	6.99	7.19	0.00
2,4-D	8.18	8.18	8.08	8.28	0.00
2,4,5-TP(Silvex)	9.03	9.03	8.93	9.13	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM **Case No.:** P4462 **SAS No.:** P4462 **SDG NO.:** P4462

Continuing Calib Date: 10/24/2024 **Initial Calibration Date(s):** 10/23/2024 10/23/2024

Continuing Calib Time: 11:25 **Initial Calibration Time(s):** 11:28 13:04

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.61	7.61	7.51	7.71	0.00
2,4-D	8.84	8.84	8.74	8.94	0.00
2,4,5-TP(Silvex)	9.73	9.73	9.63	9.83	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM **Case No.:** P4462 **SAS No.:** P4462 **SDG NO.:** P4462

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/23/2024 10/23/2024

Client Sample No.: CCAL01 **Date Analyzed:** 10/24/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028036.D **Time Analyzed:** 11:25

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.028	8.929	9.129	684.860	712.500	-3.9
2,4-D	8.176	8.077	8.277	665.580	705.000	-5.6
2,4-DCAA	7.091	6.991	7.191	709.960	750.000	-5.3

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM **Case No.:** P4462 **SAS No.:** P4462 **SDG NO.:** P4462

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/23/2024 10/23/2024

Client Sample No.: CCAL01 **Date Analyzed:** 10/24/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028036.D **Time Analyzed:** 11:25

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.725	9.625	9.825	736.810	712.500	3.4
2,4-D	8.835	8.737	8.937	709.890	705.000	0.7
2,4-DCAA	7.613	7.514	7.714	733.180	750.000	-2.2

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM **Case No.:** P4462 **SAS No.:** P4462 **SDG NO.:** P4462

Continuing Calib Date: 10/24/2024 **Initial Calibration Date(s):** 10/23/2024 10/23/2024

Continuing Calib Time: 21:08 **Initial Calibration Time(s):** 11:28 13:04

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.09	7.09	6.99	7.19	0.00
2,4-D	8.18	8.18	8.08	8.28	0.00
2,4,5-TP(Silvex)	9.03	9.03	8.93	9.13	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM **Case No.:** P4462 **SAS No.:** P4462 **SDG NO.:** P4462

Continuing Calib Date: 10/24/2024 **Initial Calibration Date(s):** 10/23/2024 10/23/2024

Continuing Calib Time: 21:08 **Initial Calibration Time(s):** 11:28 13:04

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.61	7.61	7.51	7.71	0.00
2,4-D	8.83	8.84	8.74	8.94	0.01
2,4,5-TP(Silvex)	9.72	9.73	9.63	9.83	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM **Case No.:** P4462 **SAS No.:** P4462 **SDG NO.:** P4462

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/23/2024 10/23/2024

Client Sample No.: CCAL02 **Date Analyzed:** 10/24/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028047.D **Time Analyzed:** 21:08

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.027	8.929	9.129	693.140	712.500	-2.7
2,4-D	8.176	8.077	8.277	681.790	705.000	-3.3
2,4-DCAA	7.090	6.991	7.191	722.190	750.000	-3.7

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM **Case No.:** P4462 **SAS No.:** P4462 **SDG NO.:** P4462

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/23/2024 10/23/2024

Client Sample No.: CCAL02 **Date Analyzed:** 10/24/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028047.D **Time Analyzed:** 21:08

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.723	9.625	9.825	791.420	712.500	11.1
2,4-D	8.833	8.737	8.937	737.820	705.000	4.7
2,4-DCAA	7.612	7.514	7.714	784.260	750.000	4.6

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM **Case No.:** P4462 **SAS No.:** P4462 **SDG NO.:** P4462

Continuing Calib Date: 10/28/2024 **Initial Calibration Date(s):** 10/23/2024 10/23/2024

Continuing Calib Time: 10:32 **Initial Calibration Time(s):** 11:28 13:04

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.09	7.09	6.99	7.19	0.00
2,4-D	8.17	8.18	8.08	8.28	0.01
2,4,5-TP(Silvex)	9.03	9.03	8.93	9.13	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM **Case No.:** P4462 **SAS No.:** P4462 **SDG NO.:** P4462

Continuing Calib Date: 10/28/2024 **Initial Calibration Date(s):** 10/23/2024 10/23/2024

Continuing Calib Time: 10:32 **Initial Calibration Time(s):** 11:28 13:04

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.61	7.61	7.51	7.71	0.00
2,4-D	8.83	8.84	8.74	8.94	0.01
2,4,5-TP(Silvex)	9.72	9.73	9.63	9.83	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM **Case No.:** P4462 **SAS No.:** P4462 **SDG NO.:** P4462

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/23/2024 10/23/2024

Client Sample No.: CCAL03 **Date Analyzed:** 10/28/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028072.D **Time Analyzed:** 10:32

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.025	8.929	9.129	699.070	712.500	-1.9
2,4-D	8.173	8.077	8.277	675.860	705.000	-4.1
2,4-DCAA	7.088	6.991	7.191	727.270	750.000	-3.0

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM **Case No.:** P4462 **SAS No.:** P4462 **SDG NO.:** P4462

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/23/2024 10/23/2024

Client Sample No.: CCAL03 **Date Analyzed:** 10/28/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028072.D **Time Analyzed:** 10:32

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.719	9.625	9.825	764.520	712.500	7.3
2,4-D	8.832	8.737	8.937	690.400	705.000	-2.1
2,4-DCAA	7.609	7.514	7.714	754.150	750.000	0.6

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM **Case No.:** P4462 **SAS No.:** P4462 **SDG NO.:** P4462

Continuing Calib Date: 10/28/2024 **Initial Calibration Date(s):** 10/23/2024 10/23/2024

Continuing Calib Time: 17:17 **Initial Calibration Time(s):** 11:28 13:04

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.09	7.09	6.99	7.19	0.00
2,4-D	8.18	8.18	8.08	8.28	0.00
2,4,5-TP(Silvex)	9.03	9.03	8.93	9.13	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM **Case No.:** P4462 **SAS No.:** P4462 **SDG NO.:** P4462

Continuing Calib Date: 10/28/2024 **Initial Calibration Date(s):** 10/23/2024 10/23/2024

Continuing Calib Time: 17:17 **Initial Calibration Time(s):** 11:28 13:04

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.61	7.61	7.51	7.71	0.00
2,4-D	8.83	8.84	8.74	8.94	0.01
2,4,5-TP(Silvex)	9.72	9.73	9.63	9.83	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM **Case No.:** P4462 **SAS No.:** P4462 **SDG NO.:** P4462

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/23/2024 10/23/2024

Client Sample No.: CCAL04 **Date Analyzed:** 10/28/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028076.D **Time Analyzed:** 17:17

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.029	8.929	9.129	715.650	712.500	0.4
2,4-D	8.176	8.077	8.277	699.590	705.000	-0.8
2,4-DCAA	7.090	6.991	7.191	733.900	750.000	-2.1

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM **Case No.:** P4462 **SAS No.:** P4462 **SDG NO.:** P4462

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/23/2024 10/23/2024

Client Sample No.: CCAL04 **Date Analyzed:** 10/28/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028076.D **Time Analyzed:** 17:17

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.719	9.625	9.825	743.740	712.500	4.4
2,4-D	8.829	8.737	8.937	729.960	705.000	3.5
2,4-DCAA	7.606	7.514	7.714	729.190	750.000	-2.8

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Analytical Sequence

Client: Tetra Tech, EMI **SDG No.:** P4462

Project: R36724 **Instrument ID:** ECD_S

GC Column: RTX-CLP **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 10/23/2024 10/23/2024

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 #
I.BLK	I.BLK	10/23/2024	11:04	PS028007.D	7.09	0.00
HSTDICC200	HSTDICC200	10/23/2024	11:28	PS028008.D	7.09	0.00
HSTDICC500	HSTDICC500	10/23/2024	11:52	PS028009.D	7.09	0.00
HSTDICC750	HSTDICC750	10/23/2024	12:16	PS028010.D	7.09	0.00
HSTDICC1000	HSTDICC1000	10/23/2024	12:40	PS028011.D	7.09	0.00
HSTDICC1500	HSTDICC1500	10/23/2024	13:04	PS028012.D	7.09	0.00
I.BLK	I.BLK	10/24/2024	11:01	PS028035.D	7.09	0.00
HSTDCCC750	HSTDCCC750	10/24/2024	11:25	PS028036.D	7.09	0.00
PB164378BL	PB164378BL	10/24/2024	17:09	PS028037.D	7.09	0.00
PB164378BS	PB164378BS	10/24/2024	17:33	PS028038.D	7.09	0.00
WB-301-BOTMS	P4397-06MS	10/24/2024	19:09	PS028042.D	7.09	0.00
WB-301-BOTMSD	P4397-06MSD	10/24/2024	19:32	PS028043.D	7.09	0.00
C0AL2	P4462-02	10/24/2024	20:20	PS028045.D	7.09	0.00
I.BLK	I.BLK	10/24/2024	20:44	PS028046.D	7.09	0.00
HSTDCCC750	HSTDCCC750	10/24/2024	21:08	PS028047.D	7.09	0.00
I.BLK	I.BLK	10/28/2024	10:08	PS028071.D	7.09	0.00
HSTDCCC750	HSTDCCC750	10/28/2024	10:32	PS028072.D	7.09	0.00
PB164336TB	PB164336TB	10/28/2024	13:35	PS028074.D	7.09	0.00
I.BLK	I.BLK	10/28/2024	13:59	PS028075.D	7.09	0.00
HSTDCCC750	HSTDCCC750	10/28/2024	17:17	PS028076.D	7.09	0.00

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Analytical Sequence

Client: Tetra Tech, EMI **SDG No.:** P4462

Project: R36724 **Instrument ID:** ECD_S

GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 10/23/2024 10/23/2024

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 #
I.BLK	I.BLK	10/23/2024	11:04	PS028007.D	7.62	0.00
HSTDICC200	HSTDICC200	10/23/2024	11:28	PS028008.D	7.61	0.00
HSTDICC500	HSTDICC500	10/23/2024	11:52	PS028009.D	7.62	0.00
HSTDICC750	HSTDICC750	10/23/2024	12:16	PS028010.D	7.61	0.00
HSTDICC1000	HSTDICC1000	10/23/2024	12:40	PS028011.D	7.62	0.00
HSTDICC1500	HSTDICC1500	10/23/2024	13:04	PS028012.D	7.61	0.00
I.BLK	I.BLK	10/24/2024	11:01	PS028035.D	7.61	0.00
HSTDCCC750	HSTDCCC750	10/24/2024	11:25	PS028036.D	7.61	0.00
PB164378BL	PB164378BL	10/24/2024	17:09	PS028037.D	7.61	0.00
PB164378BS	PB164378BS	10/24/2024	17:33	PS028038.D	7.61	0.00
WB-301-BOTMS	P4397-06MS	10/24/2024	19:09	PS028042.D	7.61	0.00
WB-301-BOTMSD	P4397-06MSD	10/24/2024	19:32	PS028043.D	7.61	0.00
C0AL2	P4462-02	10/24/2024	20:20	PS028045.D	7.61	0.00
I.BLK	I.BLK	10/24/2024	20:44	PS028046.D	7.61	0.00
HSTDCCC750	HSTDCCC750	10/24/2024	21:08	PS028047.D	7.61	0.00
I.BLK	I.BLK	10/28/2024	10:08	PS028071.D	7.61	0.00
HSTDCCC750	HSTDCCC750	10/28/2024	10:32	PS028072.D	7.61	0.00
PB164336TB	PB164336TB	10/28/2024	13:35	PS028074.D	7.61	0.00
I.BLK	I.BLK	10/28/2024	13:59	PS028075.D	7.61	0.00
HSTDCCC750	HSTDCCC750	10/28/2024	17:17	PS028076.D	7.61	0.00

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB164378BS

Contract: TETR16

Lab Code: CHEM **Case No.:** P4462 **SAS No.:** P4462 **SDG NO.:** P4462

Lab Sample ID: PB164378BS **Date(s) Analyzed:** 10/24/2024 10/24/2024

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 FROM	RT WINDOW TO	CONCENTRATION	%RPD
2,4,5-TP(Silvex)	1	9.03	8.98	9.08	4.90	9.7
	2	9.72	9.67	9.77	5.40	
2,4-D	1	8.18	8.13	8.23	4.90	2
	2	8.84	8.79	8.89	5.00	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

WB-301-BOTMS

Contract: TETR16

Lab Code: CHEM **Case No.:** P4462 **SAS No.:** P4462 **SDG NO.:** P4462

Lab Sample ID: P4397-06MS **Date(s) Analyzed:** 10/24/2024 10/24/2024

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 FROM	RT WINDOW TO	CONCENTRATION	%RPD
2,4,5-TP(Silvex)	1	9.03	8.98	9.08	47.3	76.6
	2	9.73	9.68	9.78	106	
2,4-D	1	8.18	8.13	8.23	49.0	11.9
	2	8.84	8.79	8.89	55.2	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

WB-301-BOTMSD

Contract: TETR16

Lab Code: CHEM **Case No.:** P4462 **SAS No.:** P4462 **SDG NO.:** P4462

Lab Sample ID: P4397-06MSD **Date(s) Analyzed:** 10/24/2024 10/24/2024

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 FROM	RT WINDOW TO	CONCENTRATION	%RPD
2,4-D	1	8.18	8.13	8.23	49.2	14
	2	8.83	8.78	8.88	56.6	
2,4,5-TP(Silvex)	1	9.03	8.98	9.08	47.5	81.6
	2	9.73	9.68	9.78	113	

SHIPPING DOCUMENTS

P4462

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6.1

USEPA CLP COC (LAB COPY)
DateShipped: 10/18/2024
CarrierName: FedEx
AirbillNo: 7793 3879 2277

CHAIN OF CUSTODY RECORD

DAS #: R36724
Cooler #:

No: 3-101824-092513-0037
Lab: Alliance Technical Group, LLC Chemtech Lab
Lab Contact: Yazmeen Gomez
Lab Phone: 908-728-3147

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use – Only
IDW-W	C0AL2	Water/ START	Grab	T_HERB(21 Day)	1760 (<6 C), 1761 (<6 C) (2)	IDW	10/17/2024 08:00	

Special Instructions:

Shipment for Case Complete? Y
Samples Transferred From Chain of Custody #

Analysis Key: T_HERB=TCLP Herbicides

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
		10-18-24 1100		10/19/24	2-5
				10:15	

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Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (L-A-B)	L2219
Maine	2024021
Maryland	296
New Hampshire	255423
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 1 of __
Received By (Print Name) Gasanova Rena		Log-in Date 10/21/2024
Received By (Signature)		
Case Number R36724	SDG No.	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	n/a
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	779338792277 1
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.1 Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	10/19/2024
12.Time Received	10:15

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	C0AL2	N/A		P4462-02	Intact
2	N/A	N/A	N/A	N/A	N/A
3	N/A	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A	N/A
5	N/A	N/A	N/A	N/A	N/A
6	N/A	N/A	N/A	N/A	N/A
7	N/A	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By	Logbook No. N/A
Date	Logbook Page No. N/A