

LAB CHRONICLE

OrderID:	P4593	OrderDate:	10/28/2024 10:27:46 AM
Client:	Tetra Tech, EMI	Project:	R36704
Contact:	Ava Heiss	Location:	K61

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4593-01	C0PI1	WATER	Herbicide	8151A	10/22/24	10/28/24	11/01/24	10/26/24
P4593-02	C0PI5	WATER	Herbicide	8151A	10/23/24	10/28/24	11/01/24	10/26/24



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

Hit Summary Sheet
SW-846

SDG No.: P4593

Order ID: P4593

Client: Tetra Tech, EMI

Project ID: R36704

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:	10/22/24	
Project:	R36704		Date Received:	10/26/24	
Client Sample ID:	C0P11		SDG No.:	P4593	
Lab Sample ID:	P4593-01		Matrix:	WATER	
Analytical Method:	SW8151A		% 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
PS028156.D	1	10/28/24 13:45	11/01/24 09:43	PB164494

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	2.00	U	0.42	2.00	ug/L
120-36-5	DICHLORPROP	2.00	U	0.43	2.00	ug/L
94-75-7	2,4-D	2.00	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	2.00	U	0.45	2.00	ug/L
93-76-5	2,4,5-T	2.00	U	0.50	2.00	ug/L
94-82-6	2,4-DB	2.00	U	0.57	2.00	ug/L
88-85-7	DINOSEB	2.00	U	0.55	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	584		39 - 175	117%	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

Report of Analysis

Client:	Tetra Tech, EMI		Date Collected:	10/23/24	
Project:	R36704		Date Received:	10/26/24	
Client Sample ID:	C0PI5		SDG No.:	P4593	
Lab Sample ID:	P4593-02		Matrix:	WATER	
Analytical Method:	SW8151A		% 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
PS028166.D	1	10/28/24 13:45	11/01/24 14:31	PB164494

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	2.00	U	0.42	2.00	ug/L
120-36-5	DICHLORPROP	2.00	U	0.43	2.00	ug/L
94-75-7	2,4-D	2.00	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	2.00	U	0.45	2.00	ug/L
93-76-5	2,4,5-T	2.00	U	0.50	2.00	ug/L
94-82-6	2,4-DB	2.00	U	0.57	2.00	ug/L
88-85-7	DINOSEB	2.00	U	0.55	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	589		39 - 175	118%	SPK: 500

Comments:

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() = Laboratory InHouse Limit



QC SUMMARY

Surrogate Summary

SDG No.: **P4593**

Client: **Tetra Tech, EMI**

Analytical Method: **8151A**

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	High
I.BLK-PS028101.D	PIBLK-PS028101.D	2,4-DCAA	1	500	497	99		39	175
		2,4-DCAA	2	500	507	101		39	175
I.BLK-PS028145.D	PIBLK-PS028145.D	2,4-DCAA	1	500	529	106		39	175
		2,4-DCAA	2	500	553	111		39	175
PB164494BL	PB164494BL	2,4-DCAA	1	500	560	112		39	175
		2,4-DCAA	2	500	528	106		39	175
P4593-01	C0PI1	2,4-DCAA	1	500	584	117		39	175
		2,4-DCAA	2	500	561	112		39	175
I.BLK-PS028157.D	PIBLK-PS028157.D	2,4-DCAA	1	500	533	107		39	175
		2,4-DCAA	2	500	528	106		39	175
P4593-02	C0PI5	2,4-DCAA	1	500	589	118		39	175
		2,4-DCAA	2	500	562	112		39	175
I.BLK-PS028167.D	PIBLK-PS028167.D	2,4-DCAA	1	500	537	107		39	175
		2,4-DCAA	2	500	533	107		39	175
I.BLK-PS028252.D	PIBLK-PS028252.D	2,4-DCAA	1	500	489	98		39	175
		2,4-DCAA	2	500	491	98		39	175
I.BLK-PS028283.D	PIBLK-PS028283.D	2,4-DCAA	1	500	529	106		39	175
		2,4-DCAA	2	500	516	103		39	175
PB164494BS	PB164494BS	2,4-DCAA	1	500	559	112		39	175
		2,4-DCAA	2	500	534	107		39	175
PB164494BSD	PB164494BSD	2,4-DCAA	1	500	553	111		39	175
		2,4-DCAA	2	500	527	105		39	175
I.BLK-PS028296.D	PIBLK-PS028296.D	2,4-DCAA	1	500	530	106		39	175
		2,4-DCAA	2	500	508	102		39	175

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4593

Client: Tetra Tech, EMI

Analytical Method: 8151A Datafile : PS028286.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD		Limits	
								Qual	Low	High	RPD
PB164494BS	DICAMBA	5	5.20	ug/L	104				67	136	
	DICHLORPROP	5	5.30	ug/L	106				88	119	
	2,4-D	5	5.30	ug/L	106				83	130	
	2,4,5-TP(Silvex)	5	5.40	ug/L	108				78	127	
	2,4,5-T	5	5.40	ug/L	108				74	129	
	2,4-DB	5	5.30	ug/L	106				53	149	
	Dinoseb	5	5.40	ug/L	108				72	131	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4593

Client: Tetra Tech, EMI

Analytical Method: 8151A Datafile : PS028287.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD		Limits	
								Qual	Low	High	RPD
PB164494BSD	DICAMBA	5	5.10	ug/L	102	2			67	136	20
	DICHLORPROP	5	5.20	ug/L	104	2			88	119	20
	2,4-D	5	5.30	ug/L	106	0			83	130	20
	2,4,5-TP(Silvex)	5	5.40	ug/L	108	0			78	127	20
	2,4,5-T	5	5.40	ug/L	108	0			74	129	20
	2,4-DB	5	5.30	ug/L	106	0			53	149	20
	Dinoseb	5	5.30	ug/L	106	2			72	131	20

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164494BL

Lab Name: CHEMTECH

Contract: TETR16

Lab Code: CHEM Case No.: P4593

SAS No.: P4593 SDG NO.: P4593

Lab Sample ID: PB164494BL

Lab File ID: PS028153.D

Matrix: (soil/water) WATER

Extraction: (Type) _____

Sulfur Cleanup: (Y/N) N

Date Extracted: 10/28/2024

Date Analyzed (1): 11/01/2024

Date Analyzed (2): 11/01/2024

Time Analyzed (1): 08:31

Time Analyzed (2): 08:31

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
COPI1	P4593-01	PS028156.D	11/01/2024	11/01/2024
COPI5	P4593-02	PS028166.D	11/01/2024	11/01/2024
PB164494BS	PB164494BS	PS028286.D	11/07/2024	11/07/2024
PB164494BSD	PB164494BSD	PS028287.D	11/07/2024	11/07/2024

COMMENTS: _____



QC SAMPLE DATA

Report of Analysis

Client:	Tetra Tech, EMI		Date Collected:		
Project:	R36704		Date Received:		
Client Sample ID:	PB164494BL		SDG No.:	P4593	
Lab Sample ID:	PB164494BL		Matrix:	WATER	
Analytical Method:	SW8151A		% 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
PS028153.D	1	10/28/24 13:45	11/01/24 08:31	PB164494

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	2.00	U	0.42	2.00	ug/L
120-36-5	DICHLORPROP	2.00	U	0.43	2.00	ug/L
94-75-7	2,4-D	2.00	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	2.00	U	0.45	2.00	ug/L
93-76-5	2,4,5-T	2.00	U	0.50	2.00	ug/L
94-82-6	2,4-DB	2.00	U	0.57	2.00	ug/L
88-85-7	DINOSEB	2.00	U	0.55	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	560		39 - 175	112%	SPK: 500

Comments:

U = Not Detected

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() = Laboratory InHouse Limit

Report of Analysis

Client:	Tetra Tech, EMI		Date Collected:	10/31/24	
Project:	R36704		Date Received:	10/31/24	
Client Sample ID:	PIBLK-PS028101.D		SDG No.:	P4593	
Lab Sample ID:	I.BLK-PS028101.D		Matrix:	WATER	
Analytical Method:	SW8151A		% 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
PS028101.D	1		10/31/24	PS103124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	2.00	U	0.42	2.00	ug/L
120-36-5	DICHLORPROP	2.00	U	0.43	2.00	ug/L
94-75-7	2,4-D	2.00	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	2.00	U	0.45	2.00	ug/L
93-76-5	2,4,5-T	2.00	U	0.50	2.00	ug/L
94-82-6	2,4-DB	2.00	U	0.57	2.00	ug/L
88-85-7	DINOSEB	2.00	U	0.55	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	507		39 - 175	101%	SPK: 500

Comments:

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Report of Analysis

Client:	Tetra Tech, EMI		Date Collected:	11/01/24	
Project:	R36704		Date Received:	11/01/24	
Client Sample ID:	PIBLK-PS028145.D		SDG No.:	P4593	
Lab Sample ID:	I.BLK-PS028145.D		Matrix:	WATER	
Analytical Method:	SW8151A		% 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
PS028145.D	1		11/01/24	PS103124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	2.00	U	0.42	2.00	ug/L
120-36-5	DICHLORPROP	2.00	U	0.43	2.00	ug/L
94-75-7	2,4-D	2.00	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	2.00	U	0.45	2.00	ug/L
93-76-5	2,4,5-T	2.00	U	0.50	2.00	ug/L
94-82-6	2,4-DB	2.00	U	0.57	2.00	ug/L
88-85-7	DINOSEB	2.00	U	0.55	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	553		39 - 175	111%	SPK: 500

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Report of Analysis

Client:	Tetra Tech, EMI		Date Collected:	11/01/24	
Project:	R36704		Date Received:	11/01/24	
Client Sample ID:	PIBLK-PS028157.D		SDG No.:	P4593	
Lab Sample ID:	I.BLK-PS028157.D		Matrix:	WATER	
Analytical Method:	SW8151A		% 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
PS028157.D	1		11/01/24	PS103124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	2.00	U	0.42	2.00	ug/L
120-36-5	DICHLORPROP	2.00	U	0.43	2.00	ug/L
94-75-7	2,4-D	2.00	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	2.00	U	0.45	2.00	ug/L
93-76-5	2,4,5-T	2.00	U	0.50	2.00	ug/L
94-82-6	2,4-DB	2.00	U	0.57	2.00	ug/L
88-85-7	DINOSEB	2.00	U	0.55	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	533		39 - 175	107%	SPK: 500

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Report of Analysis

Client:	Tetra Tech, EMI		Date Collected:	11/01/24	
Project:	R36704		Date Received:	11/01/24	
Client Sample ID:	PIBLK-PS028167.D		SDG No.:	P4593	
Lab Sample ID:	I.BLK-PS028167.D		Matrix:	WATER	
Analytical Method:	SW8151A		% 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
PS028167.D	1		11/01/24	PS103124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	2.00	U	0.42	2.00	ug/L
120-36-5	DICHLORPROP	2.00	U	0.43	2.00	ug/L
94-75-7	2,4-D	2.00	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	2.00	U	0.45	2.00	ug/L
93-76-5	2,4,5-T	2.00	U	0.50	2.00	ug/L
94-82-6	2,4-DB	2.00	U	0.57	2.00	ug/L
88-85-7	DINOSEB	2.00	U	0.55	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	537		39 - 175	107%	SPK: 500

Comments:

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Report of Analysis

Client:	Tetra Tech, EMI		Date Collected:	11/06/24	
Project:	R36704		Date Received:	11/06/24	
Client Sample ID:	PIBLK-PS028252.D		SDG No.:	P4593	
Lab Sample ID:	I.BLK-PS028252.D		Matrix:	WATER	
Analytical Method:	SW8151A		% 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
PS028252.D	1		11/06/24	PS110624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	2.00	U	0.42	2.00	ug/L
120-36-5	DICHLORPROP	2.00	U	0.43	2.00	ug/L
94-75-7	2,4-D	2.00	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	2.00	U	0.45	2.00	ug/L
93-76-5	2,4,5-T	2.00	U	0.50	2.00	ug/L
94-82-6	2,4-DB	2.00	U	0.57	2.00	ug/L
88-85-7	DINOSEB	2.00	U	0.55	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	491		39 - 175	98%	SPK: 500

Comments:

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Report of Analysis

Client:	Tetra Tech, EMI		Date Collected:	11/06/24	
Project:	R36704		Date Received:	11/06/24	
Client Sample ID:	PIBLK-PS028283.D		SDG No.:	P4593	
Lab Sample ID:	I.BLK-PS028283.D		Matrix:	WATER	
Analytical Method:	SW8151A		% 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
PS028283.D	1		11/06/24	PS110624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	2.00	U	0.42	2.00	ug/L
120-36-5	DICHLORPROP	2.00	U	0.43	2.00	ug/L
94-75-7	2,4-D	2.00	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	2.00	U	0.45	2.00	ug/L
93-76-5	2,4,5-T	2.00	U	0.50	2.00	ug/L
94-82-6	2,4-DB	2.00	U	0.57	2.00	ug/L
88-85-7	DINOSEB	2.00	U	0.55	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	529		39 - 175	106%	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

Report of Analysis

Client:	Tetra Tech, EMI		Date Collected:	11/07/24	
Project:	R36704		Date Received:	11/07/24	
Client Sample ID:	PIBLK-PS028296.D		SDG No.:	P4593	
Lab Sample ID:	I.BLK-PS028296.D		Matrix:	WATER	
Analytical Method:	SW8151A		% 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
PS028296.D	1		11/07/24	PS110624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	2.00	U	0.42	2.00	ug/L
120-36-5	DICHLORPROP	2.00	U	0.43	2.00	ug/L
94-75-7	2,4-D	2.00	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	2.00	U	0.45	2.00	ug/L
93-76-5	2,4,5-T	2.00	U	0.50	2.00	ug/L
94-82-6	2,4-DB	2.00	U	0.57	2.00	ug/L
88-85-7	DINOSEB	2.00	U	0.55	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	530		39 - 175	106%	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

Report of Analysis

Client:	Tetra Tech, EMI		Date Collected:		
Project:	R36704		Date Received:		
Client Sample ID:	PB164494BS		SDG No.:	P4593	
Lab Sample ID:	PB164494BS		Matrix:	WATER	
Analytical Method:	SW8151A		% 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
PS028286.D	1	10/28/24 13:45	11/07/24 00:15	PB164494

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	5.20		0.42	2.00	ug/L
120-36-5	DICHLORPROP	5.30		0.43	2.00	ug/L
94-75-7	2,4-D	5.30		0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	5.40		0.45	2.00	ug/L
93-76-5	2,4,5-T	5.40		0.50	2.00	ug/L
94-82-6	2,4-DB	5.30		0.57	2.00	ug/L
88-85-7	DINOSEB	5.40		0.55	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	559		39 - 175	112%	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

Report of Analysis

Client:	Tetra Tech, EMI		Date Collected:		
Project:	R36704		Date Received:		
Client Sample ID:	PB164494BSD		SDG No.:	P4593	
Lab Sample ID:	PB164494BSD		Matrix:	WATER	
Analytical Method:	SW8151A		% 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
PS028287.D	1	10/28/24 13:45	11/07/24 00:39	PB164494

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	5.10		0.42	2.00	ug/L
120-36-5	DICHLORPROP	5.20		0.43	2.00	ug/L
94-75-7	2,4-D	5.30		0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	5.40		0.45	2.00	ug/L
93-76-5	2,4,5-T	5.40		0.50	2.00	ug/L
94-82-6	2,4-DB	5.30		0.57	2.00	ug/L
88-85-7	DINOSEB	5.30		0.55	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	553		39 - 175	111%	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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GC Column: RTX-CLP ID: 0.32 (mm)

[illegible]

RETENTION TIMES OF INITIAL CALIBRATION

Contract: TETR16

Lab Code: CHEM Case No.: P4593 SAS No.: P4593 SDG NO.: P4593

Instrument ID: ECD_S Calibration Date(s): 10/31/2024 10/31/2024

Calibration Times: 10:51 12:27

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

LAB FILE ID:	RT 200 = <u>PS028102.D</u>	RT 500 = <u>PS028103.D</u>
	RT 750 = <u>PS028104.D</u>	RT 1000 = <u>PS028105.D</u>
		RT 1500 = <u>PS028106.D</u>

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW	
							FROM	TO
2,4,5-T	10.14	10.14	10.13	10.14	10.14	10.14	10.04	10.24
2,4,5-TP(Silvex)	9.72	9.72	9.72	9.72	9.73	9.72	9.62	9.82
2,4-D	8.83	8.83	8.83	8.83	8.84	8.83	8.73	8.93
2,4-DB	10.70	10.70	10.70	10.70	10.70	10.70	10.60	10.80
2,4-DCAA	7.61	7.61	7.61	7.61	7.61	7.61	7.51	7.71
DICAMBA	7.80	7.80	7.80	7.80	7.81	7.80	7.70	7.90
DICHLORPROP	8.51	8.51	8.50	8.51	8.51	8.51	8.41	8.61
Dinoseb	11.07	11.07	11.07	11.08	11.08	11.07	10.97	11.17

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: TETR16

Lab Code: CHEM **Case No.:** P4593 **SAS No.:** P4593 **SDG NO.:** P4593

Instrument ID: ECD_S **Calibration Date(s):** 10/31/2024 10/31/2024
Calibration Times: 10:51 12:27

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

LAB FILE ID: CF 200 = PS028102.DCF 500 = PS028103.DCF 750 = PS028104.DCF 1000 = PS028105.DCF 1500 = PS028106.D							
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-T	24476700000	22435000000	21559300000	20464800000	19450600000	21677300000	9
2,4,5-TP(Silvex)	22891600000	21030800000	20298400000	19273000000	18375600000	20373900000	8
2,4-D	4683430000	4130700000	3987230000	3810000000	3695310000	4061330000	9
2,4-DB	3704650000	3428640000	3369410000	3264010000	3228140000	3398970000	6
2,4-DCAA	3647030000	3188450000	3045110000	2927180000	2835960000	3128750000	10
DICAMBA	15048200000	13996800000	13598200000	13118700000	12676600000	13687700000	7
DICHLORPROP	3917540000	3467260000	3333040000	3186160000	3102550000	3401310000	9
Dinoseb	18570300000	16899200000	16333500000	15628200000	15026100000	16491500000	8

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: TETR16

Lab Code: CHEM **Case No.:** P4593 **SAS No.:** P4593 **SDG NO.:** P4593

Instrument ID: ECD_S **Calibration Date(s):** 10/31/2024 10/31/2024
Calibration Times: 10:51 12:27

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

LAB FILE ID:		CF 200 = <u>PS028102.D</u>		CF 500 = <u>PS028103.D</u>			
CF 750 = <u>PS028104.D</u>		CF 1000 = <u>PS028105.D</u>		CF 1500 = <u>PS028106.D</u>			
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-T	6378170000	6219850000	6059070000	5931150000	6017390000	6121130000	3
2,4,5-TP(Silvex)	6724520000	6535760000	6190070000	6074290000	6251200000	6355170000	4
2,4-D	1362400000	1262070000	1161560000	1135900000	1165630000	1217510000	8
2,4-DB	796126000	751721000	739397000	737389000	757460000	756419000	3
2,4-DCAA	1139890000	1052670000	930936000	911429000	960799000	999145000	10
DICAMBA	4792790000	4754520000	4318960000	4300380000	4578590000	4549050000	5
DICHLORPROP	1246460000	1137870000	1034480000	1008880000	1040170000	1093570000	9
Dinoseb	4808430000	4536240000	4463430000	4426700000	4412880000	4529530000	4

RETENTION TIMES OF INITIAL CALIBRATION

Contract: TETR16

Lab Code: CHEM Case No.: P4593 SAS No.: P4593 SDG NO.: P4593

Instrument ID: ECD_S Calibration Date(s): 11/06/2024 11/06/2024

Calibration Times: 09:48 11:24

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

LAB FILE ID:	RT 200 = <u>PS028253.D</u>	RT 500 = <u>PS028254.D</u>
RT 750 = <u>PS028255.D</u>	RT 1000 = <u>PS028256.D</u>	RT 1500 = <u>PS028257.D</u>

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW	
							FROM	TO
2,4,5-T	9.57	9.57	9.57	9.57	9.57	9.57	9.47	9.67
2,4,5-TP(Silvex)	9.28	9.28	9.28	9.28	9.28	9.28	9.18	9.38
2,4-D	8.39	8.39	8.39	8.39	8.39	8.39	8.29	8.49
2,4-DB	10.15	10.15	10.15	10.15	10.15	10.15	10.05	10.25
2,4-DCAA	7.26	7.26	7.26	7.26	7.26	7.26	7.16	7.36
DICAMBA	7.45	7.45	7.45	7.45	7.45	7.45	7.35	7.55
DICHLORPROP	8.16	8.16	8.16	8.16	8.16	8.16	8.06	8.26
Dinoseb	11.36	11.37	11.36	11.37	11.36	11.36	11.26	11.46

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

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: TETR16

Lab Code: CHEM **Case No.:** P4593 **SAS No.:** P4593 **SDG NO.:** P4593

Instrument ID: ECD_S **Calibration Date(s):** 11/06/2024 11/06/2024
Calibration Times: 09:48 11:24

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

LAB FILE ID:		CF 200 = <u>PS028253.D</u>		CF 500 = <u>PS028254.D</u>			
CF 750 = <u>PS028255.D</u>		CF 1000 = <u>PS028256.D</u>		CF 1500 = <u>PS028257.D</u>			
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-T	18605000000	17699100000	17397600000	16764700000	16211200000	17335500000	5
2,4,5-TP(Silvex)	18381400000	17393400000	17071400000	16437600000	15844400000	17025600000	6
2,4-D	3499520000	3198390000	3124710000	3013570000	2944350000	3156110000	7
2,4-DB	2953740000	2827030000	2824430000	2764350000	2763120000	2826530000	3
2,4-DCAA	2911600000	2530960000	2546610000	2432090000	2385800000	2561410000	8
DICAMBA	11781800000	11346100000	11291200000	10963200000	10760300000	11228500000	3
DICHLORPROP	3148380000	2853420000	2784160000	2683190000	2627250000	2819280000	7
Dinoseb	15121200000	14574900000	14554700000	14126500000	13917700000	14459000000	3

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: TETR16

Lab Code: CHEM **Case No.:** P4593 **SAS No.:** P4593 **SDG NO.:** P4593

Instrument ID: ECD_S **Calibration Date(s):** 11/06/2024 11/06/2024
Calibration Times: 09:48 11:24

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

LAB FILE ID:		CF 200 = <u>PS028253.D</u>		CF 500 = <u>PS028254.D</u>			
CF 750 = <u>PS028255.D</u>		CF 1000 = <u>PS028256.D</u>		CF 1500 = <u>PS028257.D</u>			
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-T	12788400000	12436700000	12406800000	12012600000	11689500000	12266800000	3
2,4,5-TP(Silvex)	12950900000	12612000000	12578800000	12192000000	11879700000	12442700000	3
2,4-D	2348170000	2233230000	2226180000	2175820000	2167290000	2230140000	3
2,4-DB	1594690000	1565870000	1590090000	1575360000	1598480000	1584900000	1
2,4-DCAA	1855960000	1741220000	1731630000	1690270000	1689820000	1741780000	4
DICAMBA	7963390000	8019410000	8155900000	8026840000	7997280000	8032560000	1
DICHLORPROP	2102670000	2006780000	2002310000	1963630000	1970820000	2009240000	3
Dinoseb	8938980000	8771400000	8800740000	8588540000	8508600000	8721650000	2

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM Case No.: P4593 SAS No.: P4593 SDG NO.: P4593

Continuing Calib Date: 11/01/2024 Initial Calibration Date(s): 10/31/2024 10/31/2024

Continuing Calib Time: 05:18 Initial Calibration Time(s): 10:51 12:27

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.24	7.24	7.14	7.34	0.00
2,4-DCAA	7.06	7.06	6.96	7.16	0.00
DICHLORPROP	7.92	7.92	7.82	8.02	0.00
2,4-D	8.15	8.14	8.04	8.24	-0.01
2,4,5-TP(Silvex)	9.00	8.99	8.89	9.09	-0.01
2,4,5-T	9.28	9.28	9.18	9.38	0.00
2,4-DB	9.84	9.84	9.74	9.94	0.00
Dinoseb	11.01	11.01	10.91	11.11	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM Case No.: P4593 SAS No.: P4593 SDG NO.: P4593

Continuing Calib Date: 11/01/2024 Initial Calibration Date(s): 10/31/2024 10/31/2024

Continuing Calib Time: 05:18 Initial Calibration Time(s): 10:51 12:27

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.80	7.80	7.70	7.90	0.00
2,4-DCAA	7.61	7.61	7.51	7.71	0.00
DICHLORPROP	8.51	8.50	8.40	8.60	-0.01
2,4-D	8.83	8.83	8.73	8.93	0.00
2,4,5-TP(Silvex)	9.72	9.72	9.62	9.82	0.00
2,4,5-T	10.14	10.13	10.03	10.23	-0.01
2,4-DB	10.70	10.70	10.60	10.80	0.00
Dinoseb	11.08	11.07	10.97	11.17	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM Case No.: P4593 SAS No.: P4593 SDG NO.: P4593

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 10/31/2024 10/31/2024

Client Sample No.: CCAL01 Date Analyzed: 11/01/2024

Lab Sample No.: HSTDCCC750 Data File : PS028146.D Time Analyzed: 05:18

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	9.279	9.176	9.376	748.110	712.500	5.0
2,4,5-TP(Silvex)	8.996	8.893	9.093	752.610	712.500	5.6
2,4-D	8.145	8.042	8.242	732.210	705.000	3.9
2,4-DB	9.841	9.737	9.937	748.580	712.500	5.1
2,4-DCAA	7.064	6.962	7.162	767.010	750.000	2.3
DICAMBA	7.242	7.140	7.340	737.040	705.000	4.5
DICHLORPROP	7.923	7.821	8.021	729.770	705.000	3.5
Dinoseb	11.014	10.910	11.110	732.980	705.000	4.0

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM Case No.: P4593 SAS No.: P4593 SDG NO.: P4593

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 10/31/2024 10/31/2024

Client Sample No.: CCAL01 Date Analyzed: 11/01/2024

Lab Sample No.: HSTDCCC750 Data File : PS028146.D Time Analyzed: 05:18

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.138	10.034	10.234	779.470	712.500	9.4
2,4,5-TP(Silvex)	9.723	9.620	9.820	774.850	712.500	8.8
2,4-D	8.831	8.728	8.928	741.680	705.000	5.2
2,4-DB	10.701	10.597	10.797	782.100	712.500	9.8
2,4-DCAA	7.607	7.505	7.705	777.940	750.000	3.7
DICAMBA	7.801	7.698	7.898	750.470	705.000	6.4
DICHLORPROP	8.507	8.404	8.604	739.240	705.000	4.9
Dinoseb	11.075	10.971	11.171	767.650	705.000	8.9

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM Case No.: P4593 SAS No.: P4593 SDG NO.: P4593

Continuing Calib Date: 11/01/2024 Initial Calibration Date(s): 10/31/2024 10/31/2024

Continuing Calib Time: 11:19 Initial Calibration Time(s): 10:51 12:27

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.24	7.24	7.14	7.34	0.00
2,4-DCAA	7.06	7.06	6.96	7.16	0.00
DICHLORPROP	7.92	7.92	7.82	8.02	0.00
2,4-D	8.15	8.14	8.04	8.24	-0.01
2,4,5-TP(Silvex)	9.00	8.99	8.89	9.09	0.00
2,4,5-T	9.28	9.28	9.18	9.38	0.00
2,4-DB	9.84	9.84	9.74	9.94	0.00
Dinoseb	11.01	11.01	10.91	11.11	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM Case No.: P4593 SAS No.: P4593 SDG NO.: P4593

Continuing Calib Date: 11/01/2024 Initial Calibration Date(s): 10/31/2024 10/31/2024

Continuing Calib Time: 11:19 Initial Calibration Time(s): 10:51 12:27

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.79	7.80	7.70	7.90	0.01
2,4-DCAA	7.60	7.61	7.51	7.71	0.01
DICHLORPROP	8.50	8.50	8.40	8.60	0.00
2,4-D	8.82	8.83	8.73	8.93	0.01
2,4,5-TP(Silvex)	9.71	9.72	9.62	9.82	0.01
2,4,5-T	10.13	10.13	10.03	10.23	0.00
2,4-DB	10.69	10.70	10.60	10.80	0.01
Dinoseb	11.07	11.07	10.97	11.17	0.01

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM Case No.: P4593 SAS No.: P4593 SDG NO.: P4593

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 10/31/2024 10/31/2024

Client Sample No.: CCAL02 Date Analyzed: 11/01/2024

Lab Sample No.: HSTDCCC750 Data File : PS028158.D Time Analyzed: 11:19

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.278	9.176	9.376	729.530	712.500	2.4
2,4,5-TP(Silvex)	8.995	8.893	9.093	732.950	712.500	2.9
2,4-D	8.145	8.042	8.242	713.800	705.000	1.2
2,4-DB	9.840	9.737	9.937	727.090	712.500	2.0
2,4-DCAA	7.064	6.962	7.162	744.700	750.000	-0.7
DICAMBA	7.242	7.140	7.340	713.720	705.000	1.2
DICHLORPROP	7.924	7.821	8.021	707.110	705.000	0.3
Dinoseb	11.013	10.910	11.110	711.050	705.000	0.9

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM Case No.: P4593 SAS No.: P4593 SDG NO.: P4593

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 10/31/2024 10/31/2024

Client Sample No.: CCAL02 Date Analyzed: 11/01/2024

Lab Sample No.: HSTDCCC750 Data File : PS028158.D Time Analyzed: 11:19

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	10.128	10.034	10.234	772.730	712.500	8.5
2,4,5-TP(Silvex)	9.714	9.620	9.820	764.690	712.500	7.3
2,4-D	8.823	8.728	8.928	713.040	705.000	1.1
2,4-DB	10.691	10.597	10.797	785.870	712.500	10.3
2,4-DCAA	7.601	7.505	7.705	736.970	750.000	-1.7
DICAMBA	7.793	7.698	7.898	706.100	705.000	0.2
DICHLORPROP	8.499	8.404	8.604	713.950	705.000	1.3
Dinoseb	11.065	10.971	11.171	780.230	705.000	10.7

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM Case No.: P4593 SAS No.: P4593 SDG NO.: P4593

Continuing Calib Date: 11/01/2024 Initial Calibration Date(s): 10/31/2024 10/31/2024

Continuing Calib Time: 15:20 Initial Calibration Time(s): 10:51 12:27

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.24	7.24	7.14	7.34	0.00
2,4-DCAA	7.07	7.06	6.96	7.16	-0.01
DICHLORPROP	7.93	7.92	7.82	8.02	-0.01
2,4-D	8.15	8.14	8.04	8.24	-0.01
2,4,5-TP(Silvex)	9.00	8.99	8.89	9.09	-0.01
2,4,5-T	9.28	9.28	9.18	9.38	0.00
2,4-DB	9.84	9.84	9.74	9.94	0.00
Dinoseb	11.01	11.01	10.91	11.11	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM Case No.: P4593 SAS No.: P4593 SDG NO.: P4593

Continuing Calib Date: 11/01/2024 Initial Calibration Date(s): 10/31/2024 10/31/2024

Continuing Calib Time: 15:20 Initial Calibration Time(s): 10:51 12:27

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.80	7.80	7.70	7.90	0.00
2,4-DCAA	7.61	7.61	7.51	7.71	0.00
DICHLORPROP	8.51	8.50	8.40	8.60	-0.01
2,4-D	8.83	8.83	8.73	8.93	0.00
2,4,5-TP(Silvex)	9.72	9.72	9.62	9.82	0.00
2,4,5-T	10.14	10.13	10.03	10.23	-0.01
2,4-DB	10.70	10.70	10.60	10.80	0.00
Dinoseb	11.07	11.07	10.97	11.17	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM Case No.: P4593 SAS No.: P4593 SDG NO.: P4593

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 10/31/2024 10/31/2024

Client Sample No.: CCAL03 Date Analyzed: 11/01/2024

Lab Sample No.: HSTDCCC750 Data File : PS028168.D Time Analyzed: 15:20

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.281	9.176	9.376	726.770	712.500	2.0
2,4,5-TP(Silvex)	8.997	8.893	9.093	731.040	712.500	2.6
2,4-D	8.146	8.042	8.242	715.850	705.000	1.5
2,4-DB	9.842	9.737	9.937	723.210	712.500	1.5
2,4-DCAA	7.065	6.962	7.162	745.580	750.000	-0.6
DICAMBA	7.243	7.140	7.340	711.910	705.000	1.0
DICHLORPROP	7.925	7.821	8.021	706.820	705.000	0.3
Dinoseb	11.014	10.910	11.110	701.750	705.000	-0.5

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM Case No.: P4593 SAS No.: P4593 SDG NO.: P4593

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 10/31/2024 10/31/2024

Client Sample No.: CCAL03 Date Analyzed: 11/01/2024

Lab Sample No.: HSTDCCC750 Data File : PS028168.D Time Analyzed: 15:20

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	10.136	10.034	10.234	772.040	712.500	8.4
2,4,5-TP(Silvex)	9.722	9.620	9.820	767.910	712.500	7.8
2,4-D	8.831	8.728	8.928	709.660	705.000	0.7
2,4-DB	10.699	10.597	10.797	780.260	712.500	9.5
2,4-DCAA	7.607	7.505	7.705	738.420	750.000	-1.5
DICAMBA	7.800	7.698	7.898	708.500	705.000	0.5
DICHLORPROP	8.506	8.404	8.604	714.060	705.000	1.3
Dinoseb	11.073	10.971	11.171	756.300	705.000	7.3

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM Case No.: P4593 SAS No.: P4593 SDG NO.: P4593

Continuing Calib Date: 11/06/2024 Initial Calibration Date(s): 11/06/2024 11/06/2024

Continuing Calib Time: 23:03 Initial Calibration Time(s): 09:48 11:24

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.45	7.45	7.35	7.55	0.00
2,4-DCAA	7.26	7.26	7.16	7.36	0.00
DICHLORPROP	8.16	8.16	8.06	8.26	0.00
2,4-D	8.39	8.39	8.29	8.49	0.00
2,4,5-TP(Silvex)	9.27	9.28	9.18	9.38	0.01
2,4,5-T	9.57	9.57	9.47	9.67	0.00
2,4-DB	10.14	10.15	10.05	10.25	0.01
Dinoseb	11.36	11.36	11.26	11.46	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM Case No.: P4593 SAS No.: P4593 SDG NO.: P4593

Continuing Calib Date: 11/06/2024 Initial Calibration Date(s): 11/06/2024 11/06/2024

Continuing Calib Time: 23:03 Initial Calibration Time(s): 09:48 11:24

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
DICAMBA	7.96	7.97	7.87	8.07	0.01
2,4-DCAA	7.76	7.77	7.67	7.87	0.01
DICHLORPROP	8.68	8.68	8.58	8.78	0.00
2,4-D	9.01	9.02	8.92	9.12	0.01
2,4,5-TP(Silvex)	9.92	9.92	9.82	10.02	0.00
2,4,5-T	10.34	10.34	10.24	10.44	0.00
2,4-DB	10.91	10.91	10.81	11.01	0.00
Dinoseb	11.29	11.29	11.19	11.39	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM Case No.: P4593 SAS No.: P4593 SDG NO.: P4593

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 11/06/2024 11/06/2024

Client Sample No.: CCAL04 Date Analyzed: 11/06/2024

Lab Sample No.: HSTDCCC750 Data File : PS028284.D Time Analyzed: 23:03

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	9.567	9.469	9.669	767.920	712.500	7.8
2,4,5-TP(Silvex)	9.274	9.177	9.377	764.460	712.500	7.3
2,4-D	8.391	8.294	8.494	746.130	705.000	5.8
2,4-DB	10.144	10.047	10.247	761.720	712.500	6.9
2,4-DCAA	7.260	7.162	7.362	788.410	750.000	5.1
DICAMBA	7.449	7.351	7.551	747.530	705.000	6.0
DICHLORPROP	8.160	8.063	8.263	745.000	705.000	5.7
Dinoseb	11.361	11.264	11.464	760.470	705.000	7.9

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM Case No.: P4593 SAS No.: P4593 SDG NO.: P4593

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 11/06/2024 11/06/2024

Client Sample No.: CCAL04 Date Analyzed: 11/06/2024

Lab Sample No.: HSTDCCC750 Data File : PS028284.D Time Analyzed: 23:03

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	10.342	10.244	10.444	716.510	712.500	0.6
2,4,5-TP(Silvex)	9.921	9.823	10.023	729.370	712.500	2.4
2,4-D	9.013	8.915	9.115	714.340	705.000	1.3
2,4-DB	10.909	10.812	11.012	703.300	712.500	-1.3
2,4-DCAA	7.763	7.665	7.865	773.710	750.000	3.2
DICAMBA	7.964	7.867	8.067	747.660	705.000	6.1
DICHLORPROP	8.682	8.584	8.784	725.580	705.000	2.9
Dinoseb	11.290	11.191	11.391	697.660	705.000	-1.0

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM Case No.: P4593 SAS No.: P4593 SDG NO.: P4593

Continuing Calib Date: 11/07/2024 Initial Calibration Date(s): 11/06/2024 11/06/2024

Continuing Calib Time: 04:40 Initial Calibration Time(s): 09:48 11:24

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.45	7.45	7.35	7.55	0.00
2,4-DCAA	7.26	7.26	7.16	7.36	0.00
DICHLORPROP	8.16	8.16	8.06	8.26	0.00
2,4-D	8.39	8.39	8.29	8.49	0.00
2,4,5-TP(Silvex)	9.27	9.28	9.18	9.38	0.01
2,4,5-T	9.56	9.57	9.47	9.67	0.01
2,4-DB	10.14	10.15	10.05	10.25	0.01
Dinoseb	11.36	11.36	11.26	11.46	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM Case No.: P4593 SAS No.: P4593 SDG NO.: P4593

Continuing Calib Date: 11/07/2024 Initial Calibration Date(s): 11/06/2024 11/06/2024

Continuing Calib Time: 04:40 Initial Calibration Time(s): 09:48 11:24

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.96	7.97	7.87	8.07	0.01
2,4-DCAA	7.76	7.77	7.67	7.87	0.01
DICHLORPROP	8.68	8.68	8.58	8.78	0.00
2,4-D	9.01	9.02	8.92	9.12	0.01
2,4,5-TP(Silvex)	9.92	9.92	9.82	10.02	0.00
2,4,5-T	10.34	10.34	10.24	10.44	0.00
2,4-DB	10.91	10.91	10.81	11.01	0.00
Dinoseb	11.29	11.29	11.19	11.39	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM Case No.: P4593 SAS No.: P4593 SDG NO.: P4593

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 11/06/2024 11/06/2024

Client Sample No.: CCAL05 Date Analyzed: 11/07/2024

Lab Sample No.: HSTDCCC750 Data File : PS028297.D Time Analyzed: 04:40

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	9.563	9.469	9.669	769.290	712.500	8.0
2,4,5-TP(Silvex)	9.270	9.177	9.377	773.230	712.500	8.5
2,4-D	8.388	8.294	8.494	749.690	705.000	6.3
2,4-DB	10.141	10.047	10.247	767.890	712.500	7.8
2,4-DCAA	7.258	7.162	7.362	772.740	750.000	3.0
DICAMBA	7.447	7.351	7.551	749.460	705.000	6.3
DICHLORPROP	8.157	8.063	8.263	750.990	705.000	6.5
Dinoseb	11.358	11.264	11.464	757.790	705.000	7.5

CALIBRATION VERIFICATION SUMMARY

Contract: TETR16

Lab Code: CHEM Case No.: P4593 SAS No.: P4593 SDG NO.: P4593

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 11/06/2024 11/06/2024

Client Sample No.: CCAL05 Date Analyzed: 11/07/2024

Lab Sample No.: HSTDCCC750 Data File : PS028297.D Time Analyzed: 04:40

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	10.340	10.244	10.444	706.210	712.500	-0.9
2,4,5-TP(Silvex)	9.918	9.823	10.023	718.100	712.500	0.8
2,4-D	9.011	8.915	9.115	700.360	705.000	-0.7
2,4-DB	10.908	10.812	11.012	688.940	712.500	-3.3
2,4-DCAA	7.761	7.665	7.865	760.410	750.000	1.4
DICAMBA	7.963	7.867	8.067	732.640	705.000	3.9
DICHLORPROP	8.680	8.584	8.784	712.320	705.000	1.0
Dinoseb	11.287	11.191	11.391	668.880	705.000	-5.1

Analytical Sequence

Client: Tetra Tech, EMI

SDG No.: P4593

Project: R36704

Instrument ID: ECD_S

GC Column: RTX-CLP

ID: 0.32 (mm)

Inst. Calib. Date(s): 10/31/2024

10/31/2024

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	10/31/2024	10:27	PS028101.D	7.06	0.00
HSTDICC200	HSTDICC200	10/31/2024	10:51	PS028102.D	7.06	0.00
HSTDICC500	HSTDICC500	10/31/2024	11:15	PS028103.D	7.06	0.00
HSTDICC750	HSTDICC750	10/31/2024	11:39	PS028104.D	7.06	0.00
HSTDICC1000	HSTDICC1000	10/31/2024	12:03	PS028105.D	7.06	0.00
HSTDICC1500	HSTDICC1500	10/31/2024	12:27	PS028106.D	7.06	0.00
1.BLK	1.BLK	11/01/2024	04:54	PS028145.D	7.06	0.00
HSTDCCC750	HSTDCCC750	11/01/2024	05:18	PS028146.D	7.06	0.00
PB164494BL	PB164494BL	11/01/2024	08:31	PS028153.D	7.06	0.00
C0PI1	P4593-01	11/01/2024	09:43	PS028156.D	7.06	0.00
1.BLK	1.BLK	11/01/2024	10:07	PS028157.D	7.06	0.00
HSTDCCC750	HSTDCCC750	11/01/2024	11:19	PS028158.D	7.06	0.00
C0PI5	P4593-02	11/01/2024	14:31	PS028166.D	7.07	0.00
1.BLK	1.BLK	11/01/2024	14:55	PS028167.D	7.07	0.00
HSTDCCC750	HSTDCCC750	11/01/2024	15:20	PS028168.D	7.07	0.00
1.BLK	1.BLK	11/06/2024	09:24	PS028252.D	7.26	0.00
HSTDICC200	HSTDICC200	11/06/2024	09:48	PS028253.D	7.26	0.00
HSTDICC500	HSTDICC500	11/06/2024	10:12	PS028254.D	7.26	0.00
HSTDICC750	HSTDICC750	11/06/2024	10:36	PS028255.D	7.26	0.00
HSTDICC1000	HSTDICC1000	11/06/2024	11:00	PS028256.D	7.26	0.00
HSTDICC1500	HSTDICC1500	11/06/2024	11:24	PS028257.D	7.26	0.00
1.BLK	1.BLK	11/06/2024	22:39	PS028283.D	7.26	0.00
HSTDCCC750	HSTDCCC750	11/06/2024	23:03	PS028284.D	7.26	0.00
PB164494BS	PB164494BS	11/07/2024	00:15	PS028286.D	7.26	0.00
PB164494BSD	PB164494BSD	11/07/2024	00:39	PS028287.D	7.26	0.00
1.BLK	1.BLK	11/07/2024	04:16	PS028296.D	7.26	0.00
HSTDCCC750	HSTDCCC750	11/07/2024	04:40	PS028297.D	7.26	0.00

Analytical Sequence

Client: Tetra Tech, EMI

SDG No.: P4593

Project: R36704

Instrument ID: ECD_S

GC Column: RTX-CLP2

ID: 0.32 (mm)

Inst. Calib. Date(s): 10/31/2024

10/31/2024

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	10/31/2024	10:27	PS028101.D	7.61	0.00
HSTDICC200	HSTDICC200	10/31/2024	10:51	PS028102.D	7.61	0.00
HSTDICC500	HSTDICC500	10/31/2024	11:15	PS028103.D	7.61	0.00
HSTDICC750	HSTDICC750	10/31/2024	11:39	PS028104.D	7.61	0.00
HSTDICC1000	HSTDICC1000	10/31/2024	12:03	PS028105.D	7.61	0.00
HSTDICC1500	HSTDICC1500	10/31/2024	12:27	PS028106.D	7.61	0.00
1.BLK	1.BLK	11/01/2024	04:54	PS028145.D	7.61	0.00
HSTDCCC750	HSTDCCC750	11/01/2024	05:18	PS028146.D	7.61	0.00
PB164494BL	PB164494BL	11/01/2024	08:31	PS028153.D	7.60	0.00
C0PI1	P4593-01	11/01/2024	09:43	PS028156.D	7.61	0.00
1.BLK	1.BLK	11/01/2024	10:07	PS028157.D	7.61	0.00
HSTDCCC750	HSTDCCC750	11/01/2024	11:19	PS028158.D	7.60	0.00
C0PI5	P4593-02	11/01/2024	14:31	PS028166.D	7.61	0.00
1.BLK	1.BLK	11/01/2024	14:55	PS028167.D	7.61	0.00
HSTDCCC750	HSTDCCC750	11/01/2024	15:20	PS028168.D	7.61	0.00
1.BLK	1.BLK	11/06/2024	09:24	PS028252.D	7.76	0.00
HSTDICC200	HSTDICC200	11/06/2024	09:48	PS028253.D	7.77	0.00
HSTDICC500	HSTDICC500	11/06/2024	10:12	PS028254.D	7.77	0.00
HSTDICC750	HSTDICC750	11/06/2024	10:36	PS028255.D	7.77	0.00
HSTDICC1000	HSTDICC1000	11/06/2024	11:00	PS028256.D	7.77	0.00
HSTDICC1500	HSTDICC1500	11/06/2024	11:24	PS028257.D	7.77	0.00
1.BLK	1.BLK	11/06/2024	22:39	PS028283.D	7.76	0.00
HSTDCCC750	HSTDCCC750	11/06/2024	23:03	PS028284.D	7.76	0.00
PB164494BS	PB164494BS	11/07/2024	00:15	PS028286.D	7.76	0.00
PB164494BSD	PB164494BSD	11/07/2024	00:39	PS028287.D	7.76	0.00
1.BLK	1.BLK	11/07/2024	04:16	PS028296.D	7.76	0.00
HSTDCCC750	HSTDCCC750	11/07/2024	04:40	PS028297.D	7.76	0.00

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB164494BS

Contract: TETR16

Lab Code: CHEM

Case No.: P4593

SAS No.: P4593

SDG NO.: P4593

Lab Sample ID: PB164494BS

Date(s) Analyzed: 11/07/2024

11/07/2024

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	8.39	8.34	8.44	5.30	7.8
	2	9.01	8.96	9.06	4.90	
2,4,5-TP(Silvex)	1	9.27	9.22	9.32	5.40	5.7
	2	9.92	9.87	9.97	5.10	
2,4,5-T	1	9.57	9.52	9.62	5.40	7.7
	2	10.34	10.29	10.39	5.00	
2,4-DB	1	10.14	10.09	10.19	5.30	9.9
	2	10.91	10.86	10.96	4.80	
DICHLORPROP	1	8.16	8.11	8.21	5.30	5.8
	2	8.68	8.63	8.73	5.00	
Dinoseb	1	11.36	11.31	11.41	5.40	11.8
	2	11.29	11.24	11.34	4.80	
DICAMBA	1	7.45	7.40	7.50	5.20	1.9
	2	7.96	7.91	8.01	5.10	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB164494BSD

Contract: TETR16

Lab Code: CHEM

Case No.: P4593

SAS No.: P4593

SDG NO.: P4593

Lab Sample ID: PB164494BSD

Date(s) Analyzed: 11/07/2024

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ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
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	2	8.68	8.63	8.73	4.90	
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2,4,5-TP(Silvex)	1	9.27	9.22	9.32	5.40	7.7
	2	9.92	9.87	9.97	5.00	
2,4,5-T	1	9.57	9.52	9.62	5.40	9.7
	2	10.34	10.29	10.39	4.90	
2,4-DB	1	10.14	10.09	10.19	5.30	12
	2	10.91	10.86	10.96	4.70	
Dinoseb	1	11.36	11.31	11.41	5.30	9.9
	2	11.29	11.24	11.34	4.80	
DICAMBA	1	7.45	7.40	7.50	5.10	2
	2	7.96	7.91	8.01	5.00	