

LAB CHRONICLE

OrderID:	Q1241	OrderDate:	1/30/2025 2:58:00 PM
Client:	RU2 Engineering, LLC	Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR
Contact:	Rutu Manani	Location:	E11,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1241-01	JPP-3.5-013025	SOIL	Diesel Range Organics Gasoline Range Organics	8015D 8015D	01/30/25	01/31/25	01/31/25 01/31/25	01/30/25
Q1241-04	JPP-3.5-013025	TCLP	TCLP Herbicide	8151A	01/30/25	02/03/25	02/03/25	01/30/25
Q1241-05	JPP-5.3-013025	SOIL	Diesel Range Organics Gasoline Range Organics	8015D 8015D	01/30/25	01/31/25	01/31/25 01/31/25	01/30/25
Q1241-08	JPP-5.3-013025	TCLP	TCLP Herbicide	8151A	01/30/25	02/03/25	02/03/25	01/30/25
Q1241-09	JPP-5.2-013025	SOIL	Diesel Range Organics Gasoline Range Organics	8015D 8015D	01/30/25	01/31/25	01/31/25 01/31/25	01/30/25
Q1241-12	JPP-5.2-013025	TCLP	TCLP Herbicide	8151A	01/30/25	02/03/25	02/03/25	01/30/25
Q1241-13	JPP-5.4-013025	SOIL	Diesel Range Organics Gasoline Range Organics	8015D 8015D	01/30/25	01/31/25	01/31/25 01/31/25	01/30/25
Q1241-16	JPP-5.4-013025	TCLP	TCLP Herbicide	8151A	01/30/25	02/03/25	02/03/25	01/30/25
Q1241-17	JPP-51.4-013025	SOIL	Diesel Range Organics Gasoline Range Organics	8015D 8015D	01/30/25	01/31/25	01/31/25 01/31/25	01/30/25
Q1241-20	JPP-51.4-013025	TCLP			01/30/25			01/30/25

LAB CHRONICLE

TCLP Herbicide	8151A	02/03/25	02/03/25
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A

B

C

D

E

F

G

H



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

Hit Summary Sheet
SW-846

SDG No.: Q1241

Order ID: Q1241

Client: RU2 Engineering, LLC

Project ID: NYCDDC SANTWOBR Brooklyn Bri

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:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	02/03/25
Client Sample ID:	PB166423TB	SDG No.:	Q1241
Lab Sample ID:	PB166423TB	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	100	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Decanted:	
GPC Factor :	1.0	Final Vol:	10000
Prep Method :	8151A	Test:	TCLP Herbicide
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029050.D	1	02/03/25 09:00	02/03/25 16:57	PB166485

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	20.0	U	4.90	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	20.0	U	4.50	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	497		39 - 175	99%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/30/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/30/25
Client Sample ID:	JPP-3.5-013025	SDG No.:	Q1241
Lab Sample ID:	Q1241-04	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	100	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	TCLP Herbicide
GPC Factor :	1.0	PH :	
Prep Method :	8151A	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029051.D	1	02/03/25 09:00	02/03/25 17:21	PB166485

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	20.0	U	4.90	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	20.0	U	4.50	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	522		39 - 175	104%	SPK: 500

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/30/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/30/25
Client Sample ID:	JPP-5.3-013025	SDG No.:	Q1241
Lab Sample ID:	Q1241-08	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	100	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	TCLP Herbicide
GPC Factor :	1.0	PH :	
Prep Method :	8151A	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029054.D	1	02/03/25 09:00	02/03/25 18:33	PB166485

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	20.0	U	4.90	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	20.0	U	4.50	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	576		39 - 175	115%	SPK: 500

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/30/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/30/25
Client Sample ID:	JPP-5.2-013025	SDG No.:	Q1241
Lab Sample ID:	Q1241-12	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	100	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	TCLP Herbicide
GPC Factor :	1.0	PH :	
Prep Method :	8151A	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029055.D	1	02/03/25 09:00	02/03/25 18:57	PB166485

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	20.0	U	4.90	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	20.0	U	4.50	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	601		39 - 175	120%	SPK: 500

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() = Laboratory InHouse Limit

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/30/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/30/25
Client Sample ID:	JPP-5.4-013025	SDG No.:	Q1241
Lab Sample ID:	Q1241-16	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	100	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	TCLP Herbicide
GPC Factor :	1.0	PH :	
Prep Method :	8151A	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029056.D	1	02/03/25 09:00	02/03/25 19:21	PB166485

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	20.0	U	4.90	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	20.0	U	4.50	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	589		39 - 175	118%	SPK: 500

Comments:

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() = Laboratory InHouse Limit

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/30/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/30/25
Client Sample ID:	JPP-51.4-013025	SDG No.:	Q1241
Lab Sample ID:	Q1241-20	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	100	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	TCLP Herbicide
GPC Factor :	1.0	PH :	
Prep Method :	8151A	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029057.D	1	02/03/25 09:00	02/03/25 19:45	PB166485

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	20.0	U	4.90	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	20.0	U	4.50	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	615		39 - 175	123%	SPK: 500

Comments:

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M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

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() = Laboratory InHouse Limit



QC SUMMARY

Surrogate Summary

SDG No.: Q1241

Client: RU2 Engineering, LLC

Analytical Method: 8151A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	High
I.BLK-PS028900.D	PIBLK-PS028900.D	2,4-DCAA	1	500	474	95		39	175
		2,4-DCAA	2	500	492	98		39	175
I.BLK-PS029046.D	PIBLK-PS029046.D	2,4-DCAA	1	500	484	97		39	175
		2,4-DCAA	2	500	446	89		39	175
PB166485BL	PB166485BL	2,4-DCAA	1	500	498	100		39	175
		2,4-DCAA	2	500	452	90		39	175
PB166485BS	PB166485BS	2,4-DCAA	1	500	526	105		39	175
		2,4-DCAA	2	500	467	93		39	175
PB166423TB	PB166423TB	2,4-DCAA	1	500	497	99		39	175
		2,4-DCAA	2	500	363	73		39	175
Q1241-04	JPP-3.5-013025	2,4-DCAA	1	500	522	104		39	175
		2,4-DCAA	2	500	349	70		39	175
Q1241-04MS	JPP-3.5-013025MS	2,4-DCAA	1	500	558	112		39	175
		2,4-DCAA	2	500	366	73		39	175
Q1241-04MSD	JPP-3.5-013025MSD	2,4-DCAA	1	500	567	113		39	175
		2,4-DCAA	2	500	374	75		39	175
Q1241-08	JPP-5.3-013025	2,4-DCAA	1	500	576	115		39	175
		2,4-DCAA	2	500	417	83		39	175
Q1241-12	JPP-5.2-013025	2,4-DCAA	1	500	601	120		39	175
		2,4-DCAA	2	500	433	87		39	175
Q1241-16	JPP-5.4-013025	2,4-DCAA	1	500	589	118		39	175
		2,4-DCAA	2	500	421	84		39	175
Q1241-20	JPP-51.4-013025	2,4-DCAA	1	500	615	123		39	175
		2,4-DCAA	2	500	427	85		39	175
I.BLK-PS029059.D	PIBLK-PS029059.D	2,4-DCAA	1	500	492	98		39	175
		2,4-DCAA	2	500	457	91		39	175

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1241

Client: RU2 Engineering, LLC

Analytical Method: 8151A

DataFile : PS029052.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Client Sample ID:	JPP-3,5-013025MS											
Q1241-04MS	2,4-D	50	0	52.8	ug/L	106				65	135	
	2,4,5-TP(Silvex)	50	0	51.0	ug/L	102				62	139	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1241

Client: RU2 Engineering, LLC

Analytical Method: 8151A

DataFile : PS029053.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Client Sample ID: Q1241-04MSD	JPP-3,5-013025MSD											
	2,4-D	50	0	53.3	ug/L	107		1		65	135	20
	2,4,5-TP(Silvex)	50	0	51.7	ug/L	103		1		62	139	20



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Fax : 908 789 8922

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1241

Client: RU2 Engineering, LLC

Analytical Method: 8151A Datafile : PS029049.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB166485BS	2,4-D	5	5.00	ug/L	100				83	130	
	2,4,5-TP(Silvex)	5	5.10	ug/L	102				78	127	

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166485BL

Lab Name: CHEMTECH

Contract: RUTW01

Lab Code: CHEM Case No.: Q1241

SAS No.: Q1241 SDG NO.: Q1241

Lab Sample ID: PB166485BL

Lab File ID: PS029048.D

Matrix: (soil/water) water

Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) N

Date Extracted: 02/03/2025

Date Analyzed (1): 02/03/2025

Date Analyzed (2): 02/03/2025

Time Analyzed (1): 16:09

Time Analyzed (2): 16:09

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
PB166485BS	PB166485BS	PS029049.D	02/03/2025	02/03/2025
PB166423TB	PB166423TB	PS029050.D	02/03/2025	02/03/2025
JPP-3.5-013025	Q1241-04	PS029051.D	02/03/2025	02/03/2025
JPP-3.5-013025MS	Q1241-04MS	PS029052.D	02/03/2025	02/03/2025
JPP-3.5-013025MSD	Q1241-04MSD	PS029053.D	02/03/2025	02/03/2025
JPP-5.3-013025	Q1241-08	PS029054.D	02/03/2025	02/03/2025
JPP-5.2-013025	Q1241-12	PS029055.D	02/03/2025	02/03/2025
JPP-5.4-013025	Q1241-16	PS029056.D	02/03/2025	02/03/2025
JPP-51.4-013025	Q1241-20	PS029057.D	02/03/2025	02/03/2025

COMMENTS: _____



QC SAMPLE DATA

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	PB166485BL	SDG No.:	Q1241
Lab Sample ID:	PB166485BL	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	10000 uL
Extraction Type:		Test:	TCLP Herbicide
GPC Factor :	1.0	Injection Volume :	
PH :			
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029048.D	1	02/03/25 09:00	02/03/25 16:09	PB166485

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
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
SURROGATES						
19719-28-9	2,4-DCAA	498		39 - 175	100%	SPK: 500

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/14/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/14/25
Client Sample ID:	PIBLK-PS028900.D	SDG No.:	Q1241
Lab Sample ID:	I.BLK-PS028900.D	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	10000 uL
Extraction Type:		Test:	TCLP Herbicide
GPC Factor :	1.0	Injection Volume :	
PH :			
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028900.D	1		01/14/25	PS011425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
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
SURROGATES						
19719-28-9	2,4-DCAA	492		39 - 175	98%	SPK: 500

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	02/03/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	02/03/25
Client Sample ID:	PIBLK-PS029046.D	SDG No.:	Q1241
Lab Sample ID:	I.BLK-PS029046.D	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	10000 uL
Extraction Type:		Test:	TCLP Herbicide
GPC Factor :	1.0	Injection Volume :	
PH :			
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029046.D	1		02/03/25	ps020325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
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
SURROGATES						
19719-28-9	2,4-DCAA	484		39 - 175	97%	SPK: 500

Comments:

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	02/03/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	02/03/25
Client Sample ID:	PIBLK-PS029059.D	SDG No.:	Q1241
Lab Sample ID:	I.BLK-PS029059.D	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	10000 uL
Extraction Type:		Test:	TCLP Herbicide
GPC Factor :	1.0	Injection Volume :	
PH :			
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029059.D	1		02/03/25	ps020325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
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
SURROGATES						
19719-28-9	2,4-DCAA	492		39 - 175	98%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	PB166485BS	SDG No.:	Q1241
Lab Sample ID:	PB166485BS	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	10000 uL
Extraction Type:		Test:	TCLP Herbicide
GPC Factor :	1.0	Injection Volume :	
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029049.D	1	02/03/25 09:00	02/03/25 16:33	PB166485

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)	5.10		0.45	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	526		39 - 175	105%	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:	RU2 Engineering, LLC	Date Collected:	01/30/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/30/25
Client Sample ID:	JPP-3.5-013025MS	SDG No.:	Q1241
Lab Sample ID:	Q1241-04MS	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	10000 uL
Extraction Type:		Test:	TCLP Herbicide
GPC Factor :	1.0	Injection Volume :	
PH :			
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029052.D	1	02/03/25 09:00	02/03/25 17:45	PB166485

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	52.8		4.90	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	51.0		4.50	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	558		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:	RU2 Engineering, LLC	Date Collected:	01/30/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/30/25
Client Sample ID:	JPP-3.5-013025MSD	SDG No.:	Q1241
Lab Sample ID:	Q1241-04MSD	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	10000 uL
Extraction Type:		Test:	TCLP Herbicide
GPC Factor :	1.0	Injection Volume :	
PH :			
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029053.D	1	02/03/25 09:00	02/03/25 18:09	PB166485

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	53.3		4.90	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	51.7		4.50	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	567		39 - 175	113%	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

A
B
C
D
E
F
G
H

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

[illegible]

A
B
C
D
E
F
G
H

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

[illegible]

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1241 **SAS No.:** Q1241 **SDG NO.:** Q1241

Instrument ID: ECD_S **Calibration Date(s):** 01/14/2025 01/14/2025
Calibration Times: 10:31 12:07

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

LAB FILE ID:		CF 200 =	<u>PS028901.D</u>	CF 500 =	<u>PS028902.D</u>		
CF 750 =		<u>PS028903.D</u>	CF 1000 =	<u>PS028904.D</u>	CF 1500 =	<u>PS028905.D</u>	
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-TP(Silvex)	21246200000	19217800000	18444300000	17622300000	16707400000	18647600000	9
2,4-D	3794730000	3389210000	3238030000	3095840000	2967500000	3297060000	10
2,4-DCAA	3179220000	2766210000	2659700000	2530920000	2413760000	2709960000	11

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1241 **SAS No.:** Q1241 **SDG NO.:** Q1241

Instrument ID: ECD_S **Calibration Date(s):** 01/14/2025 01/14/2025
Calibration Times: 10:31 12:07

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

LAB FILE ID:		CF 200 = <u>PS028901.D</u>		CF 500 = <u>PS028902.D</u>			
CF 750 = <u>PS028903.D</u>		CF 1000 = <u>PS028904.D</u>		CF 1500 = <u>PS028905.D</u>			
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-TP(Silvex)	9615710000	9419870000	9409010000	9233020000	9015720000	9338670000	2
2,4-D	1602310000	1486700000	1468930000	1440130000	1429250000	1485460000	5
2,4-DCAA	1189550000	1103610000	1095350000	1074740000	1070080000	1106670000	4

CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM Case No.: Q1241 SAS No.: Q1241 SDG NO.: Q1241

Continuing Calib Date: 02/03/2025 Initial Calibration Date(s): 01/14/2025 01/14/2025

Continuing Calib Time: 10:38 Initial Calibration Time(s): 10:31 12:07

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
2,4-DCAA	7.19	7.20	7.10	7.30	0.01
2,4-D	8.31	8.32	8.22	8.42	0.01
2,4,5-TP(Silvex)	9.18	9.19	9.09	9.29	0.01

CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1241 **SAS No.:** Q1241 **SDG NO.:** Q1241

Continuing Calib Date: 02/03/2025 **Initial Calibration Date(s):** 01/14/2025 01/14/2025

Continuing Calib Time: 10:38 **Initial Calibration Time(s):** 10:31 12:07

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
2,4-DCAA	7.67	7.68	7.58	7.78	0.01
2,4-D	8.90	8.91	8.81	9.01	0.01
2,4,5-TP(Silvex)	9.80	9.81	9.71	9.91	0.01

CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM Case No.: Q1241 SAS No.: Q1241 SDG NO.: Q1241

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 01/14/2025 01/14/2025

Client Sample No.: CCAL01 Date Analyzed: 02/03/2025

Lab Sample No.: HSTDCCC750 Data File : PS029047.D Time Analyzed: 10:38

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.180	9.089	9.289	723.740	712.500	1.6
2,4-D	8.309	8.216	8.416	700.140	705.000	-0.7
2,4-DCAA	7.191	7.097	7.297	744.770	750.000	-0.7

CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM Case No.: Q1241 SAS No.: Q1241 SDG NO.: Q1241

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 01/14/2025 01/14/2025

Client Sample No.: CCAL01 Date Analyzed: 02/03/2025

Lab Sample No.: HSTDCCC750 Data File : PS029047.D Time Analyzed: 10:38

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.802	9.713	9.913	708.950	712.500	-0.5
2,4-D	8.903	8.813	9.013	652.250	705.000	-7.5
2,4-DCAA	7.669	7.577	7.777	675.660	750.000	-9.9

CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM Case No.: Q1241 SAS No.: Q1241 SDG NO.: Q1241

Continuing Calib Date: 02/03/2025 Initial Calibration Date(s): 01/14/2025 01/14/2025

Continuing Calib Time: 20:57 Initial Calibration Time(s): 10:31 12:07

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
2,4-DCAA	7.19	7.20	7.10	7.30	0.01
2,4-D	8.31	8.32	8.22	8.42	0.01
2,4,5-TP(Silvex)	9.18	9.19	9.09	9.29	0.01

CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1241 **SAS No.:** Q1241 **SDG NO.:** Q1241

Continuing Calib Date: 02/03/2025 **Initial Calibration Date(s):** 01/14/2025 01/14/2025

Continuing Calib Time: 20:57 **Initial Calibration Time(s):** 10:31 12:07

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
2,4-DCAA	7.67	7.68	7.58	7.78	0.01
2,4-D	8.90	8.91	8.81	9.01	0.01
2,4,5-TP(Silvex)	9.80	9.81	9.71	9.91	0.01

CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM Case No.: Q1241 SAS No.: Q1241 SDG NO.: Q1241

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 01/14/2025 01/14/2025

Client Sample No.: CCAL02 Date Analyzed: 02/03/2025

Lab Sample No.: HSTDCCC750 Data File : PS029060.D Time Analyzed: 20:57

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-TP(Silvex)	9.180	9.089	9.289	720.700	712.500	1.2
2,4-D	8.308	8.216	8.416	699.060	705.000	-0.8
2,4-DCAA	7.192	7.097	7.297	741.660	750.000	-1.1

CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM Case No.: Q1241 SAS No.: Q1241 SDG NO.: Q1241

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 01/14/2025 01/14/2025

Client Sample No.: CCAL02 Date Analyzed: 02/03/2025

Lab Sample No.: HSTDCCC750 Data File : PS029060.D Time Analyzed: 20:57

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.803	9.713	9.913	710.800	712.500	-0.2
2,4-D	8.903	8.813	9.013	657.380	705.000	-6.8
2,4-DCAA	7.669	7.577	7.777	680.490	750.000	-9.3

Analytical Sequence

Client: RU2 Engineering, LLC	SDG No.: Q1241
Project: NYCDDC SANTWOBR Brooklyn Bridge BI	Instrument ID: ECD_S
GC Column: RTX-CLP	ID: 0.32 (mm) Inst. Calib. Date(s): 01/14/2025 01/14/2025

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 #
IBLK	IBLK	01/14/2025	10:07	PS028900.D	7.20	0.00
HSTDICC200	HSTDICC200	01/14/2025	10:31	PS028901.D	7.20	0.00
HSTDICC500	HSTDICC500	01/14/2025	10:55	PS028902.D	7.20	0.00
HSTDICC750	HSTDICC750	01/14/2025	11:19	PS028903.D	7.20	0.00
HSTDICC1000	HSTDICC1000	01/14/2025	11:43	PS028904.D	7.20	0.00
HSTDICC1500	HSTDICC1500	01/14/2025	12:07	PS028905.D	7.20	0.00
IBLK	IBLK	02/03/2025	10:14	PS029046.D	7.19	0.00
HSTDCCC750	HSTDCCC750	02/03/2025	10:38	PS029047.D	7.19	0.00
PB166485BL	PB166485BL	02/03/2025	16:09	PS029048.D	7.19	0.00
PB166485BS	PB166485BS	02/03/2025	16:33	PS029049.D	7.19	0.00
PB166423TB	PB166423TB	02/03/2025	16:57	PS029050.D	7.19	0.00
JPP-3.5-013025	Q1241-04	02/03/2025	17:21	PS029051.D	7.19	0.00
JPP-3.5-013025MS	Q1241-04MS	02/03/2025	17:45	PS029052.D	7.19	0.00
JPP-3.5-013025MSD	Q1241-04MSD	02/03/2025	18:09	PS029053.D	7.19	0.00
JPP-5.3-013025	Q1241-08	02/03/2025	18:33	PS029054.D	7.19	0.00
JPP-5.2-013025	Q1241-12	02/03/2025	18:57	PS029055.D	7.19	0.00
JPP-5.4-013025	Q1241-16	02/03/2025	19:21	PS029056.D	7.19	0.00
JPP-51.4-013025	Q1241-20	02/03/2025	19:45	PS029057.D	7.19	0.00
IBLK	IBLK	02/03/2025	20:33	PS029059.D	7.19	0.00
HSTDCCC750	HSTDCCC750	02/03/2025	20:57	PS029060.D	7.19	0.00

Analytical Sequence

Client: RU2 Engineering, LLC	SDG No.: Q1241
Project: NYCDDC SANTWOBR Brooklyn Bridge BI	Instrument ID: ECD_S
GC Column: RTX-CLP2	ID: 0.32 (mm) Inst. Calib. Date(s): 01/14/2025 01/14/2025

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 #
IBLK	IBLK	01/14/2025	10:07	PS028900.D	7.68	0.00
HSTDICC200	HSTDICC200	01/14/2025	10:31	PS028901.D	7.68	0.00
HSTDICC500	HSTDICC500	01/14/2025	10:55	PS028902.D	7.68	0.00
HSTDICC750	HSTDICC750	01/14/2025	11:19	PS028903.D	7.68	0.00
HSTDICC1000	HSTDICC1000	01/14/2025	11:43	PS028904.D	7.68	0.00
HSTDICC1500	HSTDICC1500	01/14/2025	12:07	PS028905.D	7.68	0.00
IBLK	IBLK	02/03/2025	10:14	PS029046.D	7.67	0.00
HSTDCCC750	HSTDCCC750	02/03/2025	10:38	PS029047.D	7.67	0.00
PB166485BL	PB166485BL	02/03/2025	16:09	PS029048.D	7.66	0.00
PB166485BS	PB166485BS	02/03/2025	16:33	PS029049.D	7.67	0.00
PB166423TB	PB166423TB	02/03/2025	16:57	PS029050.D	7.67	0.00
JPP-3.5-013025	Q1241-04	02/03/2025	17:21	PS029051.D	7.67	0.00
JPP-3.5-013025MS	Q1241-04MS	02/03/2025	17:45	PS029052.D	7.67	0.00
JPP-3.5-013025MSD	Q1241-04MSD	02/03/2025	18:09	PS029053.D	7.67	0.00
JPP-5.3-013025	Q1241-08	02/03/2025	18:33	PS029054.D	7.67	0.00
JPP-5.2-013025	Q1241-12	02/03/2025	18:57	PS029055.D	7.67	0.00
JPP-5.4-013025	Q1241-16	02/03/2025	19:21	PS029056.D	7.67	0.00
JPP-51.4-013025	Q1241-20	02/03/2025	19:45	PS029057.D	7.67	0.00
IBLK	IBLK	02/03/2025	20:33	PS029059.D	7.67	0.00
HSTDCCC750	HSTDCCC750	02/03/2025	20:57	PS029060.D	7.67	0.00

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

JPP-3.5-013025MS

Contract: RUTW01

Lab Code: CHEM

Case No.: Q1241

SAS No.: Q1241

SDG NO.: Q1241

Lab Sample ID: Q1241-04MS

Date(s) Analyzed: 02/03/2025

02/03/2025

Instrument ID (1): ECD_S

Instrument ID (2): ECD_S

GC Column: (1): RTX-CLP

ID: 0.32 (mm)

GC Column:(2): RTX-CLP2

ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4-D	1	8.31	8.26	8.36	52.8	10.1
	2	8.90	8.85	8.95	47.7	
2,4,5-TP(Silvex)	1	9.18	9.13	9.23	51.0	4.2
	2	9.80	9.75	9.85	48.9	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

JPP-3.5-013025MSD

Contract: RUTW01

Lab Code: CHEM Case No.: Q1241

SAS No.: Q1241 SDG NO.: Q1241

Lab Sample ID: Q1241-04MSD

Date(s) Analyzed: 02/03/2025 02/03/2025

Instrument ID (1): ECD_S

Instrument ID (2): ECD_S

GC Column: (1): RTX-CLP ID: 0.32 (mm)

GC Column:(2): RTX-CLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4-D	1	8.31	8.26	8.36	53.3	10
	2	8.90	8.85	8.95	48.2	
2,4,5-TP(Silvex)	1	9.18	9.13	9.23	51.7	3.9
	2	9.80	9.75	9.85	49.7	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB166485BS

Contract: RUTW01

Lab Code: CHEM

Case No.: Q1241

SAS No.: Q1241

SDG NO.: Q1241

Lab Sample ID: PB166485BS

Date(s) Analyzed: 02/03/2025

02/03/2025

Instrument ID (1): ECD_S

Instrument ID (2): ECD_S

GC Column: (1): RTX-CLP

ID: 0.32 (mm)

GC Column:(2): RTX-CLP2

ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4,5-TP(Silvex)	1	9.18	9.13	9.23	5.10	4
	2	9.80	9.75	9.85	4.90	
2,4-D	1	8.31	8.26	8.36	5.00	10.5
	2	8.90	8.85	8.95	4.50	