

B C D

LAB CHRONICLE

OrderID: Client: Contact:	Q1241 RU2 Engineering, LLC Rutu Manani			OrderDate: Project: Location:	NYCDDC SAN	1/30/2025 2:58:00 PM NYCDDC SANTWOBR Brooklyn Bridge BBMCR E11,VOA Ref. #2 Soil				
LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received		
Q1241-03	JPP-3.5-013025	SOIL			01/30/25 08:20			01/30/25		
			Paint Filter	9095B			02/04/25 09:10			
Q1241-04	JPP-3.5-013025	SOIL			01/30/25 08:20			01/30/25		
			Corrosivity	9045D			01/31/25 17:00			
			Ignitability	1030			01/31/25 13:07			
			Reactive Cyanide	9012B		02/03/25	02/03/25 11:16			
			Reactive Sulfide	9034		01/31/25	01/31/25 15:17			
Q1241-07	JPP-5.3-013025	SOIL			01/30/25 09:00			01/30/25		
			Paint Filter	9095B			02/04/25 09:17			
Q1241-08	JPP-5.3-013025	SOIL			01/30/25 09:00			01/30/25		
		Corrosivity	9045D			01/31/25 17:05				
		Ignitability	1030			01/31/25 13:15				
			Reactive Cyanide	9012B		02/03/25	02/03/25 11:16			
			Reactive Sulfide	9034		01/31/25	01/31/25 15:20			



			LAB CHRONI	CLE				
Q1241-11	JPP-5.2-013025	SOIL			01/30/25 09:54			01/30/25
			Paint Filter	9095B			02/04/25 09:25	
Q1241-12	JPP-5.2-013025	SOIL			01/30/25 09:54			01/30/25
			Corrosivity	9045D			01/31/25 17:15	
			Ignitability	1030			01/31/25 13:23	
			Reactive Cyanide	9012B		02/03/25	02/03/25 11:16	
			Reactive Sulfide	9034		01/31/25	01/31/25 15:23	
Q1241-15	JPP-5.4-013025	SOIL			01/30/25 10:51			01/30/25
			Paint Filter	9095B			02/04/25 09:32	
Q1241-16	JPP-5.4-013025	SOIL			01/30/25 10:51			01/30/25
			Corrosivity	9045D			01/31/25 17:25	
			Ignitability	1030			01/31/25 13:30	
			Reactive Cyanide	9012B		02/03/25	02/03/25 11:16	
			Reactive Sulfide	9034		01/31/25	01/31/25 15:25	
Q1241-19	JPP-51.4-013025	SOIL			01/30/25 11:56			01/30/25
			Paint Filter	9095B			02/04/25 09:40	
Q1241-20	JPP-51.4-013025	SOIL			01/30/25 11:56			01/30/25
			Corrosivity	9045D	11.50		01/31/25 17:33	

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LAB	CHRONICLE
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Ignitability	1030		01/31/25
			13:37
Reactive Cyanide	9012B	02/03/25	02/03/25
			11:16
Reactive Sulfide	9034	01/31/25	01/31/25
			15:28

B C

D









DF MDL

1.00

1

Qua.

U

Conc.

1.00

Client:

Project:

Parameter

Paint Filter

Client Sample ID:

Lab Sample ID:

LOQ / CRQL

1.00

Report of Analysis			А
		01/20/25 00 20	В
RU2 Engineering, LLC	Date Collected:	01/30/25 08:20	С
NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/30/25	
JPP-3.5-013025	SDG No.:	Q1241	D
Q1241-03	Matrix:	SOIL	

82

Date Ana.

02/04/25 09:10

Ana Met.

9095B

% Solid:

Prep Date

Units

ml/100gm

- U = Not Detected
- LOQ = Limit of Quantitation
- MDL = Method Detection Limit
- LOD = Limit of Detection
- D = Dilution
- Q = indicates LCS control criteria did not meet requirements
- H = Sample Analysis Out Of Hold Time

- J = Estimated Value
- B = Analyte Found in Associated Method Blank
- * = indicates the duplicate analysis is not within control limits.
- E = Indicates the reported value is estimated because of the presence of interference.
- OR = Over Range
- N =Spiked sample recovery not within control limits



Report of Analysis

Client:	RU2	2 Engin	eering]	Date Collected:	01/30/25 08:20					
Project:	NY	CDDC	SANT	TWOBR Bro	1	Date Received:	01/30/25			С	
Client Sample ID: JPP-3.5-013025							SDG No.:	Q1241			D
Lab Sample ID:	Sample ID: Q1241-04 Matrix:					Matrix:	SOIL				
						C	% Solid:	100			
Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.		
Corrosivity	8.62	Н	1	0	0	pН		01/31/25 17:00	9045D		
Ignitability	NO		1	0	0	oC		01/31/25 13:07	1030		
Reactive Cyanide	0.050	U	1	0.0088	0.050	mg/Kg	02/03/25 09:00	02/03/25 11:16	9012B		
Reactive Sulfide	3.19	J	1	0.19	10.0	mg/Kg	01/31/25 08:50	01/31/25 15:17	9034		

Comments: pH result reported at temperature 20.5 °C

- U = Not Detected
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^{* =} indicates the duplicate analysis is not within control limits.



Client: Project:

Client Sample ID: Lab Sample ID:

Report of Analys	is		A
RU2 Engineering, LLC	Date Collected:	01/30/25 09:00	B
NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/30/25	C
JPP-5.3-013025	SDG No.:	Q1241	D
Q1241-07	Matrix:	SOIL	
	% Solid:	87.8	

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Paint Filter	1.00	U	1	1.00	1.00	ml/100gm		02/04/25 09:17	9095B

Comments:

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Report of Analysis

Client:	RUZ	2 Engin	eering	g, LLC		Date Collected:		01/30/25 0	01/30/25 09:00	
Project:	NY	CDDC	SAN	TWOBR Bro	oklyn Bridge BBMCR	1	Date Received:	01/30/25		
Client Sample ID:	JPP	-5.3-01	3025			S	Q1241			
Lab Sample ID:	Sample ID: Q1241-08 Matrix:				SOIL					
						C	% Solid:	100		
Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	
Corrosivity	10.9	Н	1	0	0	pН		01/31/25 17:05	9045D	
Ignitability	NO		1	0	0	oC		01/31/25 13:15	1030	
Reactive Cyanide	0.050	U	1	0.0087	0.050	mg/Kg	02/03/25 09:00	02/03/25 11:16	9012B	
Reactive Sulfide	6.34	J	1	0.19	10.0	mg/Kg	01/31/25 08:50	01/31/25 15:20	9034	

Comments: pH result reported at temperature 20.5 °C

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- J = Estimated Value
- B = Analyte Found in Associated Method Blank

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- OR = Over Range
- N =Spiked sample recovery not within control limits

^{* =} indicates the duplicate analysis is not within control limits.



Client: Project:

Client Sample ID: Lab Sample ID:

Report of Analys	is		
RU2 Engineering, LLC NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Collected: Date Received:	01/30/25 09:54 01/30/25	B
JPP-5.2-013025	SDG No.:	Q1241	D
Q1241-11	Matrix: % Solid:	SOIL 88.7	

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Paint Filter	1.00	U	1	1.00	1.00	ml/100gm		02/04/25 09:25	9095B

Comments:

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- LOD = Limit of Detection
- D = Dilution
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- H = Sample Analysis Out Of Hold Time

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- N =Spiked sample recovery not within control limits



Report of Analysis

Client:	RU	2 Engin	eering	g, LLC]	Date Collected:	01/30/25 0	9:54	
Project:	NY	CDDC	SANT	WOBR Bro	oklyn Bridge BBMCR]	Date Received:	01/30/25		C
Client Sample ID:	JPP	-5.2-01	3025			5	SDG No.:	Q1241		D
Lab Sample ID:	Q12	241-12				I	Matrix:	SOIL		
						C	% Solid:	100		
Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	
Corrosivity	11.3	Н	1	0	0	pН		01/31/25 17:15	9045D	
Ignitability	NO		1	0	0	oC		01/31/25 13:23	1030	
Reactive Cyanide	0.050	U	1	0.0088	0.050	mg/Kg	02/03/25 09:00	02/03/25 11:16	9012B	

Comments: pH result reported at temperature 20.6 °C

- U = Not Detected
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- D = Dilution
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- H = Sample Analysis Out Of Hold Time

- J = Estimated Value
- B = Analyte Found in Associated Method Blank
- * = indicates the duplicate analysis is not within control limits.
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- OR = Over Range
- N =Spiked sample recovery not within control limits

в



1.00

U

1

1.00

Paint Filter

		Report of Ana	lysis				
Client: Project: Client Sample ID: Lab Sample ID:	RU2 Engineering, LLC NYCDDC SANTWOBR Broo JPP-5.4-013025 Q1241-15	əklyn Bridge BBMCR		Date Collected: Date Received: SDG No.: Matrix: % Solid:	01/30/25 01/30/25 Q1241 SOIL 86.6		B
Parameter	Conc. Qua. DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	

ml/100gm

02/04/25 09:32 9095B

1.00

Comments:

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- LOQ = Limit of Quantitation
- MDL = Method Detection Limit
- LOD = Limit of Detection
- D = Dilution
- Q = indicates LCS control criteria did not meet requirements
- H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

- E = Indicates the reported value is estimated because of the presence of interference.
- OR = Over Range
- N =Spiked sample recovery not within control limits

^{* =} indicates the duplicate analysis is not within control limits.



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Client:	RU	2 Engin	eering	g, LLC]	Date Collected:	01/30/25 1	0:51	
Project:	NY	CDDC	SAN	TWOBR Bro	oklyn Bridge BBMCR	1	Date Received:	01/30/25		
Client Sample ID:	JPP	-5.4-01	3025			5	SDG No.:	Q1241		
Lab Sample ID:	Q12	241-16				I	Matrix:	SOIL		
						C	% Solid:	100		J
Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	
Corrosivity	10.0	Н	1	0	0	pН		01/31/25 17:25	9045D	
Ignitability	NO		1	0	0	oC		01/31/25 13:30	1030	
Reactive Cyanide	0.050	U	1	0.0088	0.050	mg/Kg	02/03/25 09:00	02/03/25 11:16	9012B	
Reactive Sulfide	1.58		1	0.19	10.0	mg/Kg	01/31/25 08:50	01/31/25 15:25	9034	

Comments: pH result reported at temperature 21.1 °C

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- LOD = Limit of Detection
- D = Dilution
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- H = Sample Analysis Out Of Hold Time

- J = Estimated Value
- B = Analyte Found in Associated Method Blank

- E = Indicates the reported value is estimated because of the presence of interference.
- OR = Over Range
- N =Spiked sample recovery not within control limits

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^{* =} indicates the duplicate analysis is not within control limits.



			Report of Ana	Ilysis				
Client: Project: Client Sample ID: Lab Sample ID:	RU2 Engineering NYCDDC SANT JPP-51.4-013025 Q1241-19	TWOBR Broo	ooklyn Bridge BBMCR		Date Collected: Date Received: SDG No.: Matrix: % Solid:	01/30/25 1 01/30/25 Q1241 SOIL 93.2	1:56	B C D
Parameter	Conc. Qua. DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	
Paint Filter	1.00 U 1	1.00	1.00	ml/100gr	m	02/04/25 09:40	9095B	

Comments:

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- LOD = Limit of Detection
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- J = Estimated Value
- B = Analyte Found in Associated Method Blank
- * = indicates the duplicate analysis is not within control limits.
- E = Indicates the reported value is estimated because of the presence of interference.
- OR = Over Range
- N =Spiked sample recovery not within control limits



Client:	RU	2 Engin	eering	g, LLC]	Date Collected:	01/30/25 1	1:56	
Project:	NY	CDDC	SANT	WOBR Bro	ooklyn Bridge BBMCR]	Date Received:	01/30/25		C
Client Sample ID:	JPP	-51.4-0	13025			2	SDG No.:	Q1241		
Lab Sample ID:	Q12	241-20				I	Matrix:	SOIL		
						C	% Solid:	100		
Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	
Corrosivity	9.02	Н	1	0	0	pН		01/31/25 17:33	9045D	
Ignitability	NO		1	0	0	oC		01/31/25 13:37	1030	
Reactive Cyanide	0.050			0.0000	0.050		02/02/25 00.00	02/03/25 11:16	9012B	
Reactive Cyantae	0.050	U	1	0.0088	0.050	mg/Kg	02/03/25 09:00	02/03/25 11:16	9012B	

Comments: pH result reported at temperature 21.2 °C

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^{* =} indicates the duplicate analysis is not within control limits.









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

Initial and Continuing Calibration Verification

	U2 Engineering, YCDDC SANTV		klyn Bridge	BBMCR		SDG No.: Q1241 RunNo.: LB1345	515
Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: Corrosivity	ICV	рН	7.02	7	100	90-110	01/31/2025
Sample ID: Corrosivity	CCV1	рН	2.01	2.00	101	90-110	01/31/2025
Sample ID: Corrosivity	CCV2	рН	12.02	12.00	100	90-110	01/31/2025



Initial and Continuing Calibration Verification

Client: Project:	RU2 Engineering,		klyn Bridge	BBMCR		SDG No.: Q1241 RunNo.: LB1345	24
Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV1						
Reactive	Cyanide	mg/L	0.097	0.099	98	85-115	02/03/2025
Sample ID:	CCV1						
Reactive	Cyanide	mg/L	0.24	0.25	96	90-110	02/03/2025
Sample ID:	CCV2						
Reactive	Cyanide	mg/L	0.24	0.25	96	90-110	02/03/2025
Sample ID:	CCV3						
Reactive	Cyanide	mg/L	0.25	0.25	100	90-110	02/03/2025



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

Client: Project:	RU2 Engine NYCDDC S	ering, LLC ANTWOBR Bro	ooklyn Bridge I	BBMCR		SDG No RunNo.		24
Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: Reactive	ICB1 Cyanide	mg/L	< 0.0025	0.0025	U	0.00099	0.005	02/03/2025
Sample ID: Reactive	CCB1 Cyanide	mg/L	< 0.0025	0.0025	U	0.00099	0.005	02/03/2025
Sample ID: Reactive	CCB2 Cyanide	mg/L	< 0.0025	0.0025	U	0.00099	0.005	02/03/2025
Sample ID: Reactive	CCB3 Cyanide	mg/L	< 0.0025	0.0025	U	0.00099	0.005	02/03/2025

Initial and Continuing Calibration Blank Summary



Preparation Blank Summary

Client:	RU2 Engineering, Ll	LC				SDG No.:	Q1241	
Project:	NYCDDC SANTWO	OBR Broo	oklyn Bridge BBN	ICR				
Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: Reactive	PB166422BL Sulfide r	ng/Kg	< 5.0000	5.0000	U	0.186	10	01/31/2025
Sample ID: Reactive	PB166486BL Cyanide r	ng/Kg	< 0.0250	0.0250	U	0.0088	0.05	02/03/2025

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gnitability	oC	+/-20	NO		NO			0		01/31/202
nalyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Client ID:	JPP-29.1-012825DUP				Percent Sol	ids for Spil	ke Sample:	10	U U	
CH-ref ID:	IDD 20 1 012025DUD	-	-		D (01		C 1	10		
Project:	NYCDDC SANTWOB	R Brooklyn Brid	ge BBMCR		Sample ID:	Ç	01215-04			
Client:	RU2 Engineering, LLC				SDG No.:	Q1	241			



Client ID:JPP-46.2-012925DUPPercent Solids for Spike Sample:89.2	Client ID:	JPP-46.2-012925DUP				Percent Solid	ls for Spil	ke Sample:	89	.2	
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··· J ···									
Paint Filter	ml/100gm	+/-20	1.00	U	1.00	U	1	0	02/04/2025





Client:	RU2 Engineering, LLC	SDG No.:	Q1241	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Sample ID:	Q1232-04	
Client ID:	JPP-46.2-012925DUP	Percent Solids for Spike Sample:		100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Reactive Sulfide	mg/Kg	+/-20	1.58	J	1.58	J	1	0		01/31/2025
Reactive Cyanide	mg/Kg	+/-20	0.0087	U	0.0088	U	1	0		02/03/2025



Corrosivity	рН	+/-20	8.62		8.63		1	0.12		01/31/2025
Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Client ID:	JPP-3.5-013025DUP				Percent Sol	ids for Spil	ke Sample:	10	0	
Project:	NYCDDC SANTWOB	R Brooklyn Brid	ge BBMCR		Sample ID:		1241-04			
Client:	RU2 Engineering, LLC				SDG No.:	Q1	241			



gnitability	oC	+/-20	NO		NO		1	0		01/31/202
nalyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Client ID:	JPP-6.2-013025DUP				Percent Sol	ids for Spil	ke Sample:	10)0	
3		it brooklyn brid	50 DDiffere		-	·		1(
Project:	NYCDDC SANTWOB	R Brooklyn Brid	ge BBMCR		Sample ID:	0	1242-04			
Client:	RU2 Engineering, LLC				SDG No.:	Q1	241			



Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Client ID:	OR-022-03-2025DUF				Percent Sol	ids for Spil	ce Sample:	86	.7	
Project:	NYCDDC SANTWOB	R Brooklyn Bridg	ge BBMCR		Sample ID:	Q	01281-01			
Client:	RU2 Engineering, LLC				SDG No.:	Q1	241			

	0		_		-			
Paint Filter	ml/100gm +/-20	1.00	U	1.00	U	1	0	02/04/2025