

LAB CHRONICLE

OrderID: Client: Contact:	Q1216 RU2 Engineering, LLC Rutu Manani	J2 Engineering, LLC		OrderDate: Project: Location:	1/29/2025 11:54:00 AM NYCDDC SANTWOBR Brooklyn Bridge BBMCR E11,VOA Ref. #2 Soil				
LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received	
Q1216-03	JPP-18.1-012825	SOIL			01/28/25 08:41			01/29/25	
			Paint Filter	9095B			01/31/25 11:08		
Q1216-04	JPP-18.1-012825	SOIL			01/28/25 08:41			01/29/25	
			Corrosivity	9045D			01/30/25 14:33		
			Ignitability	1030			01/31/25 09:52		
			Reactive Cyanide	9012B		01/30/25	01/30/25 13:14		
			Reactive Sulfide	9034		01/30/25	01/30/25 15:42		
Q1216-07	JPP-21.1-012825	SOIL			01/28/25 09:30			01/29/25	
			Paint Filter	9095B			01/31/25 11:15		
Q1216-08	JPP-21.1-012825	SOIL			01/28/25 09:30			01/29/25	
			Corrosivity	9045D			01/30/25 14:37		
			Ignitability	1030			01/31/25 10:00		
			Reactive Cyanide	9012B		01/30/25	01/30/25 13:14		
			Reactive Sulfide	9034		01/30/25	01/30/25 15:45		

B C D



			LAB CHRONI	CLE				
Q1216-11	JPP-21.2-012825	SOIL			01/28/25 10:50			01/29/25
			Paint Filter	9095B			01/31/25 11:22	
Q1216-12	JPP-21.2-012825	SOIL			01/28/25 10:50			01/29/25
			Corrosivity	9045D			01/30/25 14:40	
			Ignitability	1030			01/31/25 10:08	
			Reactive Cyanide	9012B		01/30/25	01/30/25 13:14	
			Reactive Sulfide	9034		01/30/25	01/30/25 15:48	
Q1216-15	JPP-26.1-012825	SOIL			01/28/25 11:35			01/29/25
			Paint Filter	9095B			01/31/25 11:30	
Q1216-16	JPP-26.1-012825	SOIL			01/28/25 11:35			01/29/25
			Corrosivity	9045D			01/30/25 14:46	
			Ignitability	1030			01/31/25 10:15	
			Reactive Cyanide	9012B		01/30/25	01/30/25 13:14	
			Reactive Sulfide	9034		01/30/25	01/30/25 15:52	
Q1216-19	JPP-26.2-012825	SOIL			01/28/25 13:32			01/29/25
			Paint Filter	9095B			01/31/25 11:38	
Q1216-20	JPP-26.2-012825	SOIL			01/28/25 13:32			01/29/25
			Corrosivity	9045D	-		01/30/25 14:50	





LAB	CHRONICLE
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Ignitability	1030		01/31/25
			10:22
Reactive Cyanide	9012B	01/30/25	01/30/25
			13:14
Reactive Sulfide	9034	01/30/25	01/30/25
			15:55

B C

D









RU2 Engineering, LLC

NYCDDC SANTWOBR

JPP-18.1-012825

Q1216-03

Client:

Project:

Client Sample ID:

Lab Sample ID:

Report of Analysi	S		Α
	Date Collected:	01/28/25 08:41	В
Brooklyn Bridge BBMCR	Date Received:	01/29/25	С
	SDG No.:	Q1216	D
	Matrix:	SOIL	

						9/	6 Solid:	83.3	
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		01/31/25 11:08	9095B

- 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	g, LLC		Date Collected:		01/28/25 08:41		
Project:	NY	CDDC	SANT	WOBR Bro	oklyn Bridge BBMCR	I	Date Received:	01/29/25 Q1216		
Client Sample ID:	JPP	-18.1-0	12825			S	SDG No.:			
Lab Sample ID:	Q12	16-04				1	Matrix:	SOIL		
						Q	% Solid:	100		
Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	
Corrosivity	8.68	Н	1	0	0	pН		01/30/25 14:33	9045D	
Corrosivity Ignitability	8.68 NO	Н	1 1	0 0	0 0	pН oC		01/30/25 14:33 01/31/25 09:52	9045D 1030	
5		H U	1 1 1	•	÷	-	01/30/25 09:00			

Comments: pH result reported at temperature 20.2 °C

- U = Not Detected
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A B C

D

Report of Analysis

Paint Filter	1.00 U 1 1.00	1.00	ml/100gm	01/31/25 11:1	5 9095B	
Parameter	Conc. Qua. DF MDL	LOQ / CRQL	Units Prep D	ate Date Ana.	Ana Met.	
			% Solid:	90.4		
Lab Sample ID:	Q1216-07		Matrix:	SOIL		
Client Sample ID:	JPP-21.1-012825		SDG No.:	Q1216		
Project:	NYCDDC SANTWOBR Broo	oklyn Bridge BBMCR	Date Receiv	ed: 01/29/25	;	- 13
Client:	RU2 Engineering, LLC		Date Collect	ed: 01/28/25	5 09:30	- 13

- U = Not Detected
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- N =Spiked sample recovery not within control limits



Report of Analysis

Client:	RU	2 Engin	eering	g, LLC		Date Collected:		01/28/25 09:30		(
Project:	NY	CDDC	SAN	WOBR Bro	oklyn Bridge BBMCR	I	Date Received:	01/29/25		
Client Sample ID:	Client Sample ID: JPP-21.1-012825						SDG No.:	Q1216		
Lab Sample ID:	Q12	216-08				1	Matrix:	SOIL		
						Q	% Solid:	100		
Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	
							- I -			
Corrosivity	8.95	Н	1	0	0	pН	· r	01/30/25 14:37	9045D	
Corrosivity Ignitability	8.95 NO	Н	1 1	0 0	0 0	pH oC		01/30/25 14:37 01/31/25 10:00		
2		H U	1 1 1	•	÷	-	01/30/25 09:00		9045D	

Comments: pH result reported at temperature 20.7 °C

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Conc.

1.00

Qua.

U

DF MDL

1.00

1

Parameter

Paint Filter

Report of Analysis									
Client: Project:	RU2 Engineering, LLC NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Collected: Date Received:	01/28/25 10:50 01/29/25	B C					
Client Sample ID:	JPP-21.2-012825	SDG No.:	Q1216	D					
Lab Sample ID:	Q1216-11	Matrix:	SOIL						
		% Solid:	84.3	J					

Units

ml/100gm

Prep Date

Date Ana.

01/31/25 11:22

Ana Met.

9095B

LOQ / CRQL

1.00

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



Report of Analysis

										B
Client:	RU2	2 Engin	eering	g, LLC		Date Collected:		01/28/25 10:50		6
Project:	NY	CDDC	SAN	TWOBR Bro	ooklyn Bridge BBMCR]	Date Received:	01/29/25 Q1216		
Client Sample ID:	JPP	-21.2-0	12825	5		5	SDG No.:			
Lab Sample ID:	Q12	216-12				Matrix:		SOIL		
						(% Solid:	100		
Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	
Corrosivity	8.90	Н	1	0	0	pН		01/30/25 14:40	9045D	
Ignitability	NO		1	0	0	oC		01/31/25 10:08	1030	
Reactive Cyanide	0.050	U	1	0.0088	0.050	mg/Kg	01/30/25 09:00	01/30/25 13:14	9012B	
Reactive Sulfide	1.59	J	1	0.19	10.0	mg/Kg	01/30/25 11:00	01/30/25 15:48	9034	

Comments: pH result reported at temperature 20.9 °C

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- N =Spiked sample recovery not within control limits

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



		Report of Ana	alysis				
Client: Project: Client Sample ID: Lab Sample ID:	RU2 Engineering, LLC NYCDDC SANTWOBR B JPP-26.1-012825 Q1216-15	rooklyn Bridge BBMCR	Da SI M	Date Collected: Date Received: DG No.: Aatrix: 6 Solid:	01/28/25 01/29/25 Q1216 SOIL 82.8		B C D
Parameter Paint Filter	Conc. Qua. DF MDL	LOQ / CRQL	Units ml/100gm	Prep Date	Date Ana. 01/31/25 11:3	Ana Met. 30 9095B	-

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



Client: RU2 Engineering, LLC								01/28/25 11:35		
Client:	RU2	2 Engin	eering	g, LLC		I	Date Collected:	01/28/25 1	1:35	
Project:	NY	CDDC	SANT	WOBR Bro	oklyn Bridge BBMCR	I	Date Received:	01/29/25		
Client Sample ID:	JPP	-26.1-0	12825			5	SDG No.:	Q1216		
Lab Sample ID:	Q12	216-16				1	Matrix:	SOIL		
						Q	% Solid:	100		
Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	
		-					1			
Corrosivity	8.56	Н	1	0	0	pН	1	01/30/25 14:46	9045D	
Corrosivity Ignitability	8.56 NO	Н	1 1	0 0	0	pH oC	1	01/30/25 14:46 01/31/25 10:15	9045D 1030	
•		H U	1 1 1	•	÷	-	01/30/25 09:00			

Comments: pH result reported at temperature 20.1 °C

- U = Not Detected
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- MDL = Method Detection Limit
- 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

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		Report of Ana	Ilysis				
Client:	RU2 Engineering, LLC			Date Collected:	01/28/25	13:32	В
Project:	NYCDDC SANTWOBR Br	rooklyn Bridge BBMCR		Date Received:	01/29/25		С
Client Sample ID:	JPP-26.2-012825			SDG No.:		D	
Lab Sample ID:	Q1216-19			Matrix:	SOIL		
				% Solid:	85.8		
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	1	01/31/25 11:3	8 9095B	

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

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- E = Indicates the reported value is estimated because of the presence of interference.
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Client:	RU	2 Engin	eering	g, LLC]	Date Collected:	01/28/25 13:32		
Project:	NY	CDDC	SANT	WOBR Bro	ooklyn Bridge BBMCR]	Date Received:	01/29/25		
Client Sample ID:	JPP	-26.2-0	12825	i		5	SDG No.:	Q1216		
Lab Sample ID:	Q12	216-20				I	Matrix:	SOIL		
						C	% Solid:	100		
Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	
Corrosivity	9.26	Н	1	0	0	pН		01/30/25 14:50	9045D	
Ignitability	NO		1	0	0	oC		01/31/25 10:22	1030	
Reactive Cyanide	0.050	U	1	0.0088	0.050	mg/Kg 01/30/25 09:00		01/30/25 13:14	9012B	
Reactive Sulfide							01/30/25 11:00	01/30/25 15:55		

Comments: pH result reported at temperature 20.9 °C

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

Initial and Continuing Calibration Verification

Client:	RU2 Engineering	, LLC				SDG No.: Q1216			
Project:	NYCDDC SANT	WOBR Brool	klyn Bridge	BBMCR		RunNo.: LB134487			
Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date		
Sample ID: Reactive		mg/L	0.098	0.099	99	85-115	01/30/2025		
Sample ID: Reactive		mg/L	0.24	0.25	96	90-110	01/30/2025		
Sample ID: Reactive		mg/L	0.24	0.25	96	90-110	01/30/2025		
Sample ID: Reactive		mg/L	0.24	0.25	96	90-110	01/30/2025		
Sample ID: Reactive		mg/L	0.25	0.25	100	90-110	01/30/2025		

D



Initial and Continuing Calibration Verification

	RU2 Engineering,			SDG No.: Q1216 RunNo.: LB1344	91		
Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: Corrosivity	ICV	рН	7.01	7	100	90-110	01/30/2025
Sample ID: Corrosivity	CCV1	рН	2.01	2.00	101	90-110	01/30/2025
Sample ID: Corrosivity	CCV2	рН	12.02	12.00	100	90-110	01/30/2025
Sample ID: Corrosivity	CCV3	рН	2.01	2.00	101	90-110	01/30/2025
Sample ID: Corrosivity	CCV4	рН	12.02	12.00	100	90-110	01/30/2025



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

Client:	RU2 Engin	eering, LLC				SDG No.:	Q1216	
Project:	NYCDDC	SANTWOBR Bro	ooklyn Bridge	BBMCR		RunNo.:	LB13448	7
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	01/30/2025
Sample ID: Reactive	CCB1 Cyanide	mg/L	< 0.0025	0.0025	U	0.00099	0.005	01/30/2025
Sample ID: Reactive	CCB2 Cyanide	mg/L	< 0.0025	0.0025	U	0.00099	0.005	01/30/2025
Sample ID: Reactive	CCB3 Cyanide	mg/L	< 0.0025	0.0025	U	0.00099	0.005	01/30/2025
Sample ID: Reactive	CCB4 Cyanide	mg/L	< 0.0025	0.0025	U	0.00099	0.005	01/30/2025

Initial and Continuing Calibration Blank Summary



Preparation Blank Summary

Client:	RU2 Engineering,	LLC			SDG No.: Q1216						
Project:	NYCDDC SANT	CDDC SANTWOBR Brooklyn Bridge BBMCR									
Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date			
Sample ID: Reactive	PB166323E Sulfide	BL mg/Kg	< 5.0000	5.0000	U	0.186	10	01/30/2025			
Sample ID: Reactive	PB166380E Cyanide	BL mg/Kg	< 0.0250	0.0250	U	0.0088	0.05	01/30/2025			

A B C D



Client:	RU2 Engineering, LLC	SDG No.:	Q1216	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Sample ID:	Q1205-02	
Client ID:	VNJ-236DUP	Percent Solids f	or Spike Sample:	100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Reactive Cyanide	mg/Kg	+/-20	0.0087	U	0.0088	U	1	0		01/30/2025
Reactive Sulfide	mg/Kg	+/-20	3.17	J	3.17	J	1	0		01/30/2025



Paint Filter

A B C

D

01/31/2025

Duplicate Sample Summary

		Acceptance	Sample	Conc.	Duplicate	Conc.	Dilution	RPD/		Analysis
Client ID:	JPP-29.1-012825DUP			Percent Solids for Spike Sample:			88	.8		
Project:	NYCDDC SANTWOB	R Brooklyn Bridg	ge BBMCR		Sample ID:	Q	1215-03			
Client:	RU2 Engineering, LLC				SDG No.:	Q12	216			

U

1.00

U

1

0

1.00

ml/100gm

+/-20



Client:	RU2 Engineering, LLC	SDG No.: Q	21216	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Sample ID:	Q1215-04	
Client ID:	JPP-29.1-012825DUP	Percent Solids for Sp	oike Sample:	100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Corrosivity Ignitability	рН oC	+/-20 +/-20	8.23 NO		8.24 NO		1 1	0.12 0		01/30/2025 01/31/2025



•			8.03	8.04			0.12		01/30/2025
Analyte	Units	Acceptance Limit	Sample Result	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Client ID:	357DUP			Percent Sol	ids for Spil	ce Sample:	10	00	
Project:	NYCDDC SANTWO	BR Brooklyn Brid	lge BBMCR	Sample ID:		1239-11			
Client:	RU2 Engineering, LI	LC		SDG No.:	Q1	216			



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	
Project:		K DIOOKIYII DIIQ	ge DDNICK		Sample ID:			1.0		
Dusiants	NYCDDC SANTWOB	D Drooklyn Drid			Samula ID.	C	01242-04			
Client:	RU2 Engineering, LLC				SDG No.:	Q1	216			