

LAB CHRONICLE

OrderID: Client: Contact:	Q1232 RU2 Engineering, LLC Rutu Manani		OrderDate: Project: Location:	1/30/2025 11:55:00 AM NYCDDC SANTWOBR Brooklyn Bridge BBMCR E11,VOA Ref. #2 Soil				
LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1232-03	JPP-46.2-012925	SOIL			01/29/25 09:05			01/30/25
			Paint Filter	9095B			02/04/25 08:25	
Q1232-04	JPP-46.2-012925	SOIL			01/29/25 09:05			01/30/25
			Corrosivity	9045D			01/30/25 15:20	
			Ignitability	1030			01/31/25 11:15	
			Reactive Cyanide	9012B		02/03/25	02/03/25 11:01	
			Reactive Sulfide	9034		01/31/25	01/31/25 14:48	
Q1232-07	JPP-46.1-012925	SOIL			01/29/25 10:18			01/30/25
			Paint Filter	9095B			02/04/25 08:40	
Q1232-08	JPP-46.1-012925	SOIL			01/29/25 10:18			01/30/25
			Corrosivity	9045D			01/30/25 15:25	
			Ignitability	1030			01/31/25 11:22	
			Reactive Cyanide	9012B		02/03/25	02/03/25 11:08	
			Reactive Sulfide	9034		01/31/25	01/31/25 14:52	

B C D



			LAB CHRONI	CLE				
Q1232-11	JPP-42.1-012925	SOIL			01/29/25 11:30			01/30/25
			Paint Filter	9095B			02/04/25 08:47	
Q1232-12	JPP-42.1-012925	SOIL			01/29/25 11:30			01/30/25
			Corrosivity	9045D			01/30/25 15:30	
			Ignitability	1030			01/31/25 11:30	
			Reactive Cyanide	9012B		02/03/25	02/03/25 11:08	
			Reactive Sulfide	9034		01/31/25	01/31/25 14:55	
Q1232-15	JPP-42.2-012925	SOIL			01/29/25 12:30			01/30/25
			Paint Filter	9095B			02/04/25 08:55	
Q1232-16	JPP-42.2-012925	SOIL			01/29/25 12:30			01/30/25
			Corrosivity	9045D	12.50		01/30/25 15:37	
			Ignitability	1030			01/31/25 11:38	
			Reactive Cyanide	9012B		02/03/25	02/03/25 11:08	
			Reactive Sulfide	9034		01/31/25	01/31/25 14:57	
Q1232-19	JPP-51.1-012925	SOIL			01/29/25 14:20			01/30/25
			Paint Filter	9095B			02/04/25 09:02	
Q1232-20	JPP-51.1-012925	SOIL			01/29/25 14:20			01/30/25
			Corrosivity	9045D	14:20		01/30/25	



15:40



LAB	CHRONICLE
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Ignitability	1030		01/31/25
			11:45
Reactive Cyanide	9012B	02/03/25	02/03/25
			11:08
Reactive Sulfide	9034	01/31/25	01/31/25
			15:00











A B C

D

Re	port	of	Anal	vsis
- NC	port		Allai	y 313

Paint Filter	1.00 U 1 1.00	1.00	ml/100gm	02/04/25 08:	25 9095B	
Parameter	Conc. Qua. DF MDL	LOQ / CRQL	Units Prej	Date Date Ana.	Ana Met.	
			% Solid:	89.2		
Lab Sample ID:	Q1232-03		Matrix:	SOIL		
Client Sample ID:	JPP-46.2-012925		SDG No.	: Q1232		
Project:	NYCDDC SANTWOBR Broo	oklyn Bridge BBMCR	Date Rec	eived: 01/30/2	5	
Client:	RU2 Engineering, LLC		Date Col	lected: 01/29/2	5 09:05	

- 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:	RU	2 Engin	ieering	g, LLC]	Date Collected:	01/29/25 0	9:05	
Project:	NY	CDDC	SAN	TWOBR Bro	ooklyn Bridge BBMCR]	Date Received:	01/30/25		C
Client Sample ID:	JPP	-46.2-0	12925	5		5	SDG No.:	Q1232		
Lab Sample ID:	Q12	232-04]	Matrix:	SOIL		
						0	% Solid:	100		
Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	
Corrosivity	7.12	Н	1	0	0	pН		01/30/25 15:20	9045D	
Ignitability	NO		1	0	0	oC		01/31/25 11:15	1030	
Reactive Cyanide	0.050	U	1	0.0087	0.050	mg/Kg	02/03/25 09:00	02/03/25 11:01	9012B	
Reactive Sulfide	1.58	т	1	0.19	10.0	mg/Kg	01/31/25 08:50	01/31/25 14:48	9034	

Comments: pH result reported at temperature 20.3 °C

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- N =Spiked sample recovery not within control limits

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



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Paint Filter

		Report of Ana	lysis				
Client: Project:	RU2 Engineering, LLC NYCDDC SANTWOBR Brow	oklyn Bridge BBMCR	-	Date Collected: Date Received:	01/29/25 01/30/25		B
Client Sample ID:	JPP-46.1-012925 01232-07			SDG No.: Matrix:	Q1232 SOIL		D
Lab Sample ID:	Q1252-07			% Solid:	94		
Parameter	Conc. Qua. DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	

ml/100gm

02/04/25 08:40

9095B

1.00

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- N =Spiked sample recovery not within control limits



Report of Analysis

Client:	RU2	2 Engin	eering	, LLC		I	Date Collected:	01/29/25 1	0:18	
Project:	NY	CDDC	SANT	WOBR Broo	oklyn Bridge BBMCR	I	Date Received:	01/30/25		
Client Sample ID:	JPP-	-46.1-0	12925			S	SDG No.:	Q1232		
Lab Sample ID:	Q12	232-08				1	Matrix:	SOIL		
						Q	% Solid:	100		J
Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	
Parameter Corrosivity	Conc. 10.5	Qua. H	DF	MDL	LOQ / CRQL	Units pH	Prep Date	Date Ana. 01/30/25 15:25	Ana Met. 9045D	
			DF 1 1				Prep Date			
Corrosivity	10.5		DF 1 1 1	0	0	pН	Prep Date 02/03/25 09:00	01/30/25 15:25	9045D	

Comments: pH result reported at temperature 20.5 °C

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- LOD = Limit of Detection
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- J = Estimated Value
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^{* =} indicates the duplicate analysis is not within control limits.



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Paint Filter

		Report of Ana	lysis				
Client:	RU2 Engineering, LLC			Date Collected:	01/29/25	5 11:30	T
Project:	NYCDDC SANTWOBR Broo	oklyn Bridge BBMCR		Date Received:	01/30/25		C
Client Sample ID:	JPP-42.1-012925			SDG No.:	Q1232		F
Lab Sample ID:	Q1232-11			Matrix:	SOIL		
				% Solid:	88.1		
Parameter	Conc. Qua. DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	

ml/100gm

02/04/25 08:47 9095B

1.00

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Report of Analysis

Client:	RU2	2 Engin	eering	g, LLC]	Date Collected:	01/29/25 1	1:30	
Project:	NYO	CDDC	SAN	TWOBR Bro	ooklyn Bridge BBMCR]	Date Received:	01/30/25		C
Client Sample ID:	JPP-	-42.1-0	12925	5		5	SDG No.:	Q1232		Ľ
Lab Sample ID:	Q12	32-12				1	Matrix:	SOIL		
						0	% Solid:	100		
Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	
Corrosivity	11.3	Н	1	0	0	pН		01/30/25 15:30	9045D	
Ignitability	NO		1	0	0	oC		01/31/25 11:30	1030	
Reactive Cyanide	0.050	U	1	0.0088	0.050	mg/Kg	02/03/25 09:00	02/03/25 11:08	9012B	
Reactive Sulfide	3.19	J	1	0.19	10.0	mg/Kg	01/31/25 08:50	01/31/25 14:55	9034	

Comments: pH result reported at temperature 20.4 °C

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

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



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Paint Filter

		Report of Ana	lysis				
Client:	RU2 Engineering, LLC			Date Collected:	01/29/25	5 12:30	זר
Project:	NYCDDC SANTWOBR Broc	oklyn Bridge BBMCR		Date Received:	01/30/25		C
Client Sample ID:	JPP-42.2-012925			SDG No.:	Q1232		F
Lab Sample ID:	Q1232-15			Matrix:	SOIL		
				% Solid:	93.2		
Parameter	Conc. Qua. DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	

1.00

ml/100gm

02/04/25 08:55 9095B

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



Reactive Sulfide

mg/Kg

01/31/25 08:50

01/31/25 14:57 9034

Client:	RU	2 Engin	eering	g, LLC			Date Collected:	01/29/25 1	2:30	
Project:	NY	CDDC	SANT	TWOBR Bro	ooklyn Bridge BBMCR		Date Received:	01/30/25		
Client Sample ID:	JPP	-42.2-0	12925	;			SDG No.:	Q1232		
Lab Sample ID:	Q12	232-16					Matrix:	SOIL		
							% Solid:	100		J
Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	
Corrosivity	10.9	Н	1	0	0	pН		01/30/25 15:37	9045D	
Ignitability	NO		1	0	0	oC		01/31/25 11:38	1030	
Reactive Cyanide	0.050	U	1	0.0087	0.050	mg/Kg	02/03/25 09:00	02/03/25 11:08	9012B	

10.0

Report of Analysis

Comments: pH result reported at temperature 20.3 °C

3.17

J

0.19

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- LOD = Limit of Detection
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- OR = Over Range
- N =Spiked sample recovery not within control limits

В

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



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Paint Filter

		Report of Ana	lysis				
Client: Project: Client Sample ID: Lab Sample ID:	RU2 Engineering, LLC NYCDDC SANTWOBR Bro JPP-51.1-012925 Q1232-19	oklyn Bridge BBMCR		Date Collected: Date Received: SDG No.: Matrix: % Solid:	01/29/25 01/30/25 Q1232 SOIL 95.1		B
Parameter	Conc. Qua. DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	

1.00

ml/100gm

02/04/25 09:02 9095B

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



Client:	RU	2 Engin	eering	g, LLC		-	Date Collected:	01/29/25 1	4:20	
Project:	NY	CDDC	SANT	TWOBR Bro	oklyn Bridge BBMCR		Date Received:	01/30/25		C
Client Sample ID:	JPP	-51.1-0	12925	5		;	SDG No.:	Q1232		
Lab Sample ID:	Q12	232-20					Matrix:	SOIL		
							% Solid:	100		
Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	
Corrosivity	9.11	Н	1	0	0	pН		01/30/25 15:40	9045D	
Ignitability	NO		1	0	0	oC		01/31/25 11:45	1030	
Reactive Cyanide	0.050	U	1	0.0087	0.050	mg/Kg	02/03/25 09:00	02/03/25 11:08	9012B	
Reactive Sulfide	6.35	J	1	0.19	10.0	mg/Kg	01/31/25 08:50	01/31/25 15:00	9034	

Comments: pH result reported at temperature 20.5 °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: Project:	RU2 Engineering,		klyn Bridge	BBMCR		SDG No.: Q1232 RunNo.: LB1344	91
Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: Corrosivit	ICV Y	рН	7.01	7	100	90-110	01/30/2025
Sample ID: Corrosivit	CCV1 y	рн	2.01	2.00	101	90-110	01/30/2025
Sample ID: Corrosivit	CCV2	рн	12.02	12.00	100	90-110	01/30/2025
Sample ID: Corrosivit	CCV3	рН	2.01	2.00	101	90-110	01/30/2025
Sample ID: Corrosivit	CCV4 Y	рН	12.02	12.00	100	90-110	01/30/2025



Initial and Continuing Calibration Verification

Client: Project:	RU2 Engineering,		klyn Bridge	BBMCR		SDG No.: Q1232 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	3BMCR		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, I	LLC				SDG No.:	Q1232	
Project:	NYCDDC SANTW	OBR Broo	oklyn Bridge BBN	ICR				
Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: Reactive	PB166422B Sulfide	L mg/Kg	< 5.0000	5.0000	U	0.186	10	01/31/2025
Sample ID: Reactive	PB166486B Cyanide	L mg/Kg	< 0.0250	0.0250	U	0.0088	0.05	02/03/2025

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Project: NY	CDDC SANTWOBR Brooklyn Bridge BBMCR	Sample ID:	Q1215-04	
Client ID: JPP	-29.1-012825DUP	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
Corrosivity Ignitability	рН oC	+/-20 +/-20	8.23 NO		8.24 NO		1 1	0.12 0		01/30/2025 01/31/2025



	Client ID:	JPP-46.2-012925DUP]	Percent Solid	ds for Spil	ke Sample:	89	.2	
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5									
Paint Filter	ml/100gm	+/-20	1.00	U	1.00	U	1	0	02/04/2025





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



maryte	Units	,		x		x			×	
Analyte	Units	Acceptance Limit	Sample Result	Conc. Oualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Client ID:	357DUP				Percent Sol	ids for Spik	te Sample:	10	0	
Project:	NYCDDC SANTW	OBR Brooklyn Brid	ge BBMCR		Sample ID:		1239-11	10		
Client:	RU2 Engineering, L				SDG No.:		232			
Climate	DUD Engineering I	IC			SDC N.	01	122			



gnitability	oC	+/-20	NO		NO		1	0		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-6.2-013025DUP				Percent Sol	ids for Spil	ke Sample:	10	00	
Project:	NYCDDC SANTWOB	R Brooklyn Brid	ge BBMCR		Sample ID:	Ç	1242-04			
Client:	RU2 Engineering, LLC				SDG No.:	Q1	232			



Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Client ID:	OR-022-03-2025DUP				Percent Solids for Spike Sample:			86.7		
Project:	NYCDDC SANTWOB	R Brooklyn Bridg	ge BBMCR		Sample ID:	Q	1281-01			
Client:	RU2 Engineering, LLC				SDG No.:	Q12	232			

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