

LAB CHRONICLE

OrderID:	Q1232	OrderDate:	1/30/2025 11:55:00 AM
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
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	

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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 11:08	
			Reactive Sulfide	9034		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		01/30/25 15:37	
			Ignitability	1030		01/31/25 11:38	
			Reactive Cyanide	9012B		02/03/25 11:08	
			Reactive Sulfide	9034		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		01/30/25 15:40	

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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



SAMPLE DATA

A

B

C

D

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/29/25 09:05
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/30/25
Client Sample ID:	JPP-46.2-012925	SDG No.:	Q1232
Lab Sample ID:	Q1232-03	Matrix:	SOIL
		% Solid:	89.2

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 08:25	9095B

Comments: _____

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 Engineering, LLC	Date Collected:	01/29/25 09:05
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/30/25
Client Sample ID:	JPP-46.2-012925	SDG No.:	Q1232
Lab Sample ID:	Q1232-04	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	7.12	H	1	0	0	pH		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	J	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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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/29/25 10:18
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/30/25
Client Sample ID:	JPP-46.1-012925	SDG No.:	Q1232
Lab Sample ID:	Q1232-07	Matrix:	SOIL
		% Solid:	94

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 08:40	9095B

Comments:

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/29/25 10:18
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/30/25
Client Sample ID:	JPP-46.1-012925	SDG No.:	Q1232
Lab Sample ID:	Q1232-08	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	10.5	H	1	0	0	pH		01/30/25 15:25	9045D
Ignitability	NO		1	0	0	oC		01/31/25 11:22	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 14:52	9034

Comments: pH result reported at temperature 20.5 °C

U = Not Detected

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/29/25 11:30
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/30/25
Client Sample ID:	JPP-42.1-012925	SDG No.:	Q1232
Lab Sample ID:	Q1232-11	Matrix:	SOIL
		% Solid:	88.1

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 08:47	9095B

Comments: _____

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/29/25 11:30
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/30/25
Client Sample ID:	JPP-42.1-012925	SDG No.:	Q1232
Lab Sample ID:	Q1232-12	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	11.3	H	1	0	0	pH		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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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

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/29/25 12:30
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/30/25
Client Sample ID:	JPP-42.2-012925	SDG No.:	Q1232
Lab Sample ID:	Q1232-15	Matrix:	SOIL
		% Solid:	93.2

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 08:55	9095B

Comments:

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 H = Sample Analysis Out Of Hold Time

J = Estimated Value
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 * = 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 Engineering, LLC	Date Collected:	01/29/25 12:30
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/30/25
Client Sample ID:	JPP-42.2-012925	SDG No.:	Q1232
Lab Sample ID:	Q1232-16	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	10.9	H	1	0	0	pH		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
Reactive Sulfide	3.17	J	1	0.19	10.0	mg/Kg	01/31/25 08:50	01/31/25 14:57	9034

Comments: pH result reported at temperature 20.3 °C

U = Not Detected

LOQ = Limit of Quantitation

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

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

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OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/29/25 14:20
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/30/25
Client Sample ID:	JPP-51.1-012925	SDG No.:	Q1232
Lab Sample ID:	Q1232-19	Matrix:	SOIL
		% Solid:	95.1

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 09:02	9095B

Comments:

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/29/25 14:20
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/30/25
Client Sample ID:	JPP-51.1-012925	SDG No.:	Q1232
Lab Sample ID:	Q1232-20	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	9.11	H	1	0	0	pH		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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LOQ = Limit of Quantitation

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QC RESULT SUMMARY

Initial and Continuing Calibration Verification

Client: RU2 Engineering, LLC

SDG No.: Q1232

Project: NYCDDC SANTWOBR Brooklyn Bridge BBMCR

RunNo.: LB134491

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: Corrosivity	ICV	pH	7.01	7	100	90-110	01/30/2025
Sample ID: Corrosivity	CCV1	pH	2.01	2.00	101	90-110	01/30/2025
Sample ID: Corrosivity	CCV2	pH	12.02	12.00	100	90-110	01/30/2025
Sample ID: Corrosivity	CCV3	pH	2.01	2.00	101	90-110	01/30/2025
Sample ID: Corrosivity	CCV4	pH	12.02	12.00	100	90-110	01/30/2025

Initial and Continuing Calibration Verification

Client: RU2 Engineering, LLC

SDG No.: Q1232

Project: NYCDDC SANTWOBR Brooklyn Bridge BBMCR

RunNo.: LB134524

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

Initial and Continuing Calibration Blank Summary

Client: RU2 Engineering, LLC

SDG No.: Q1232

Project: NYCDDC SANTWOBR Brooklyn Bridge BBMCR

RunNo.: LB134524

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00099	0.005	02/03/2025
Sample ID: CCB1 Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00099	0.005	02/03/2025
Sample ID: CCB2 Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00099	0.005	02/03/2025
Sample ID: CCB3 Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00099	0.005	02/03/2025

Preparation Blank Summary

Client: RU2 Engineering, LLC

SDG No.: Q1232

Project: NYCDDC SANTWOBR Brooklyn Bridge BBMCR

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: PB166422BL							
Reactive Sulfide	mg/Kg	< 5.0000	5.0000	U	0.186	10	01/31/2025
Sample ID: PB166486BL							
Reactive Cyanide	mg/Kg	< 0.0250	0.0250	U	0.0088	0.05	02/03/2025

Duplicate Sample Summary

Client:	RU2 Engineering, LLC	SDG No.:	Q1232
Project:	NYCDDC 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	pH	+/-20	8.23		8.24		1	0.12		01/30/2025
Ignitability	oC	+/-20	NO		NO		1	0		01/31/2025

Duplicate Sample Summary

Client:	RU2 Engineering, LLC	SDG No.:	Q1232
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Sample ID:	Q1232-03
Client ID:	JPP-46.2-012925DUP	Percent Solids for Spike Sample:	89.2

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Paint Filter	ml/100gm	+/-20	1.00	U	1.00	U	1	0		02/04/2025

Duplicate Sample Summary

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 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

Duplicate Sample Summary

Client:	RU2 Engineering, LLC	SDG No.:	Q1232
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Sample ID:	Q1239-11
Client ID:	357DUP	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	pH	+/-20	8.03		8.04		1	0.12		01/30/2025

Duplicate Sample Summary

Client:	RU2 Engineering, LLC	SDG No.:	Q1232
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Sample ID:	Q1242-04
Client ID:	JPP-6.2-013025DUP	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
Ignitability	oC	+/-20	NO		NO		1	0		01/31/2025

Duplicate Sample Summary

Client: RU2 Engineering, LLC	SDG No.: Q1232
Project: NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Sample ID: Q1281-01
Client ID: OR-02--2-03-2025DUP	Percent Solids for Spike Sample: 86.7

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Paint Filter	ml/100gm	+/-20	1.00	U	1.00	U	1	0		02/04/2025