

LAB CHRONICLE

Q1207 OrderID:

1/28/2025 11:40:00 AM OrderDate:

RU2 Engineering, LLC NYCDDC SANTWOBR Brooklyn Bridge BBMCR Client: Project:

Contact: Rutu Manani Location: E11, VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1207-03	JPP-2.1-012725	SOIL			01/27/25 09:08			01/28/25
			Paint Filter	9095B			01/29/25 12:40	
Q1207-04	JPP-2.1-012725	SOIL			01/27/25 09:08			01/28/25
			Corrosivity	9045D			01/28/25 15:25	
			Ignitability	1030			01/29/25 10:02	
			Reactive Cyanide	9012B		01/30/25	01/30/25 13:06	
			Reactive Sulfide	9034		01/30/25	01/30/25 15:15	
Q1207-07	JPP-5.1-012725	SOIL			01/27/25 10:16			01/28/25
			Paint Filter	9095B	10:10		01/29/25 12:48	
Q1207-08	JPP-5.1-012725	SOIL			01/27/25 10:16			01/28/25
			Corrosivity	9045D			01/28/25 15:30	
			Ignitability	1030			01/29/25 10:40	
			Reactive Cyanide	9012B		01/30/25	01/30/25 13:06	
			Reactive Sulfide	9034		01/30/25	01/30/25 15:18	



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Q1207-11	JPP-4.5-012725	SOIL			01/27/25 10:56			01/28/25
			Paint Filter	9095B			01/29/25 12:55	
Q1207-12	JPP-4.5-012725	SOIL			01/27/25 10:56			01/28/25
			Corrosivity	9045D			01/28/25 15:40	
			Ignitability	1030			01/29/25 10:48	
			Reactive Cyanide	9012B		01/30/25	01/30/25 13:06	
			Reactive Sulfide	9034		01/30/25	01/30/25 15:21	
Q1207-15	JPP-16.2-012725	SOIL			01/27/25 12:09			01/28/25
			Paint Filter	9095B			01/29/25 13:02	
Q1207-16	JPP-16.2-012725	SOIL			01/27/25 12:09			01/28/25
			Corrosivity	9045D			01/28/25 15:47	
			Ignitability	1030			01/29/25 10:55	
			Reactive Cyanide	9012B		01/30/25	01/30/25 13:06	
			Reactive Sulfide	9034		01/30/25	01/30/25 15:24	
Q1207-19	JPP-20.2-012725	SOIL			01/27/25 13:46			01/28/25
			Paint Filter	9095B			01/29/25 13:10	
Q1207-20	JPP-20.2-012725	SOIL			01/27/25 13:46			01/28/25
			Corrosivity	9045D			01/28/25 15:55	



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Ignitability	1030		01/29/25
			11:02
Reactive Cyanide	9012B	01/30/25	01/30/25
			13:06
Reactive Sulfide	9034	01/30/25	01/30/25
			15:27



В



SAMPLE DATA



Fax: 908 789 8922

Report of Analysis

Client: RU2 Engineering, LLC Date Collected: 01/27/25 09:08

Project: NYCDDC SANTWOBR Brooklyn Bridge BBMCR Date Received: 01/28/25

Client Sample ID: JPP-2.1-012725 SDG No.: Q1207

Lab Sample ID: Q1207-03 Matrix: SOIL

% Solid: 100

LOQ / CRQL Units Parameter DF MDL **Prep Date** Date Ana. Ana Met. Conc. Qua. Paint Filter U 01/29/25 12:40 1.00 1.00 1.00 ml/100gm9095B

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





Client: RU2 Engineering, LLC Date Collected: 01/27/25 09:08

Project: NYCDDC SANTWOBR Brooklyn Bridge BBMCR Date Received: 01/28/25

Client Sample ID: JPP-2.1-012725 SDG No.: Q1207

Lab Sample ID: Q1207-04 Matrix: SOIL

% Solid: 87.6

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	8.88	Н	1	0	0	рН		01/28/25 15:25	9045D
Ignitability	NO		1	0	0	oC		01/29/25 10:02	1030
Reactive Cyanide	0.050	U	1	0.0087	0.050	mg/Kg	01/30/25 09:00	01/30/25 13:06	9012B
Reactive Sulfide	3.17	J	1	0.19	10.0	mg/Kg	01/30/25 11:00	01/30/25 15:15	9034

Comments: pH result reported at temperature 21.0 °C

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



Fax: 908 789 8922

Report of Analysis

Client: RU2 Engineering, LLC Date Collected: 01/27/25 10:16

Project: NYCDDC SANTWOBR Brooklyn Bridge BBMCR Date Received: 01/28/25

Client Sample ID: JPP-5.1-012725 SDG No.: Q1207

Lab Sample ID: Q1207-07 Matrix: SOIL

% Solid: 90.9

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		01/29/25 12:48	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





Client: RU2 Engineering, LLC Date Collected: 01/27/25 10:16

Project: NYCDDC SANTWOBR Brooklyn Bridge BBMCR Date Received: 01/28/25

Client Sample ID: JPP-5.1-012725 SDG No.: Q1207

Lab Sample ID: Q1207-08 Matrix: SOIL

% Solid: 90.9

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	11.1	Н	1	0	0	pН		01/28/25 15:30	9045D
Ignitability	NO		1	0	0	oC		01/29/25 10:40	1030
Reactive Cyanide	0.050	U	1	0.0087	0.050	mg/Kg	01/30/25 09:00	01/30/25 13:06	9012B
Reactive Sulfide	7.97	J	1	0.19	10.0	mg/Kg	01/30/25 11:00	01/30/25 15:18	9034

Comments: pH result reported at temperature 21.3 °C

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



1.00

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

% Solid:

ml/100gm

81.6

9095B

Fax: 908 789 8922

1.00

Report of Analysis

Client: RU2 Engineering, LLC Date Collected: 01/27/25 10:56

Project: NYCDDC SANTWOBR Brooklyn Bridge BBMCR Date Received: 01/28/25

Client Sample ID: SDG No.: JPP-4.5-012725 Q1207

Lab Sample ID: Q1207-11 Matrix: SOIL

LOQ / CRQL Units Parameter DF MDL **Prep Date** Date Ana. Ana Met. Conc. Qua. Paint Filter U 01/29/25 12:55 1.00

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





Client: RU2 Engineering, LLC Date Collected: 01/27/25 10:56

Project: NYCDDC SANTWOBR Brooklyn Bridge BBMCR Date Received: 01/28/25

Client Sample ID: JPP-4.5-012725 SDG No.: Q1207

Lab Sample ID: Q1207-12 Matrix: SOIL

% Solid: 81.6

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	10.3	Н	1	0	0	pН		01/28/25 15:40	9045D
Ignitability	NO		1	0	0	oC		01/29/25 10:48	1030
Reactive Cyanide	0.050	U	1	0.0087	0.050	mg/Kg	01/30/25 09:00	01/30/25 13:06	9012B
Reactive Sulfide	3.16	J	1	0.19	10.0	mg/Kg	01/30/25 11:00	01/30/25 15:21	9034

Comments: pH result reported at temperature 21.0 °C

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



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Report of Analysis

Client: RU2 Engineering, LLC Date Collected: 01/27/25 12:09

Project: NYCDDC SANTWOBR Brooklyn Bridge BBMCR Date Received: 01/28/25

Client Sample ID: JPP-16.2-012725 SDG No.: Q1207

Lab Sample ID: Q1207-15 Matrix: SOIL

% Solid: 88.8

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		01/29/25 13:02	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





Client: RU2 Engineering, LLC Date Collected: 01/27/25 12:09

Project: NYCDDC SANTWOBR Brooklyn Bridge BBMCR Date Received: 01/28/25

Client Sample ID: JPP-16.2-012725 SDG No.: Q1207

Lab Sample ID: Q1207-16 Matrix: SOIL

% Solid: 88.8

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	10.6	Н	1	0	0	pН		01/28/25 15:47	9045D
Ignitability	NO		1	0	0	oC		01/29/25 10:55	1030
Reactive Cyanide	0.050	U	1	0.0087	0.050	mg/Kg	01/30/25 09:00	01/30/25 13:06	9012B
Reactive Sulfide	1.58	J	1	0.19	10.0	mg/Kg	01/30/25 11:00	01/30/25 15:24	9034

Comments: pH result reported at temperature 21.5 °C

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



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Report of Analysis

Client: RU2 Engineering, LLC Date Collected: 01/27/25 13:46

Project: NYCDDC SANTWOBR Brooklyn Bridge BBMCR Date Received: 01/28/25

Client Sample ID: JPP-20.2-012725 SDG No.: Q1207

Lab Sample ID: Q1207-19 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		01/29/25 13:10	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





Client: RU2 Engineering, LLC Date Collected: 01/27/25 13:46

Project: NYCDDC SANTWOBR Brooklyn Bridge BBMCR Date Received: 01/28/25

Client Sample ID: JPP-20.2-012725 SDG No.: Q1207

Lab Sample ID: Q1207-20 Matrix: SOIL

% Solid: 87.8

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	9.26	Н	1	0	0	pН		01/28/25 15:55	9045D
Ignitability	NO		1	0	0	oC		01/29/25 11:02	1030
Reactive Cyanide	0.050	U	1	0.0087	0.050	mg/Kg	01/30/25 09:00	01/30/25 13:06	9012B
Reactive Sulfide	6.31	J	1	0.19	10.0	mg/Kg	01/30/25 11:00	01/30/25 15:27	9034

Comments: pH result reported at temperature 21.4 °C

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



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QC RESULT SUMMARY





Initial and Continuing Calibration Verification

Client: RU2 Engineering, LLC SDG No.: Q1207

Project: NYCDDC SANTWOBR Brooklyn Bridge BBMCR RunNo.: LB134458

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: Corrosivity	ICV	рН	7.01	7	100	90-110	01/28/2025
Sample ID: Corrosivity	CCV1	рН	2.01	2.00	101	90-110	01/28/2025
Sample ID: Corrosivity	CCV2	рН	12.02	12.00	100	90-110	01/28/2025
Sample ID: Corrosivity	CCV3	рН	2.01	2.00	101	90-110	01/28/2025



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Initial and Continuing Calibration Verification

Client: RU2 Engineering, LLC SDG No.: Q1207

Project: NYCDDC SANTWOBR Brooklyn Bridge BBMCR RunNo.: LB134487

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV1						
Reactive	Cyanide	mg/L	0.098	0.099	99	85-115	01/30/2025
Sample ID:	CCV1						
Reactive	Cyanide	mg/L	0.24	0.25	96	90-110	01/30/2025
Sample ID:	CCV2						
Reactive	Cyanide	mg/L	0.24	0.25	96	90-110	01/30/2025
Sample ID:	CCV3						
Reactive	Cyanide	mg/L	0.24	0.25	96	90-110	01/30/2025
Sample ID:	CCV4						
Reactive	Cyanide	mg/L	0.25	0.25	100	90-110	01/30/2025



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Initial and Continuing Calibration Blank Summary

Client: RU2 Engineering, LLC SDG No.: Q1207

Project: NYCDDC SANTWOBR Brooklyn Bridge BBMCR RunNo.: LB134487

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	01/30/2025
Sample ID:	CCB1							
Reactive	Cyanide	mg/L	< 0.0025	0.0025	U	0.00099	0.005	01/30/2025
Sample ID:	CCB2							
Reactive	Cyanide	mg/L	< 0.0025	0.0025	U	0.00099	0.005	01/30/2025
Sample ID:	CCB3							
Reactive	Cyanide	mg/L	< 0.0025	0.0025	U	0.00099	0.005	01/30/2025
Sample ID:	CCB4							
Reactive	Cyanide	mg/L	< 0.0025	0.0025	U	0.00099	0.005	01/30/2025



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Preparation Blank Summary

Client: RU2 Engineering, LLC SDG No.: Q1207

Project: NYCDDC SANTWOBR Brooklyn Bridge BBMCR

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: PB16632 Reactive Sulfide	23BL mg/Kg	< 5.0000	5.0000	U	0.186	10	01/30/2025
Sample ID: PB16638 Reactive Cyanide	Mg/Kg	< 0.0250	0.0250	U	0.0088	0.05	01/30/2025



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Duplicate Sample Summary

Client: RU2 Engineering, LLC SDG No.: Q1207

Project: NYCDDC SANTWOBR Brooklyn Bridge BBMCR Sample ID: Q1205-01

Client ID: VNJ-236DUP Percent Solids for Spike Sample: 87.2

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Paint Filter Ignitability	ml/100gm oC	+/-20 +/-20	1.00 NO	U	1.00 NO	U	1 1	0		01/29/2025 01/29/2025









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Fax: 908 789 8922

Duplicate Sample Summary

Client: RU2 Engineering, LLC SDG No.: Q1207

Project: NYCDDC SANTWOBR Brooklyn Bridge BBMCR Sample ID: Q1205-02

Client ID: VNJ-236DUP 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	рН	+/-20	5.85		5.86		1	0.17		01/28/2025
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





