

LAB CHRONICLE

OrderID:	Q1215	OrderDate:	1/29/2025 11:20:00 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
Q1215-03	JPP-29.1-012825	SOIL			01/28/25			01/29/25
			Mercury	7471B		02/03/25	02/03/25	
			Metals ICP-TAL	6010D		01/30/25	01/30/25	
Q1215-04	JPP-29.1-012825	TCLP			01/28/25			01/29/25
			TCLP ICP Metals	6010D		01/31/25	02/10/25	
			TCLP Mercury	7470A		02/03/25	02/03/25	
Q1215-07	JPP-29.2-012825	SOIL			01/28/25			01/29/25
			Mercury	7471B		02/03/25	02/03/25	
			Metals ICP-TAL	6010D		01/30/25	01/30/25	
Q1215-08	JPP-29.2-012825	TCLP			01/28/25			01/29/25
			TCLP ICP Metals	6010D		01/31/25	02/10/25	
			TCLP Mercury	7470A		02/03/25	02/03/25	



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Hit Summary Sheet
SW-846

SDG No.:	Q1215	Order ID:	Q1215
Client:	RU2 Engineering, LLC	Project ID:	NYCDDC SANTWOBR Brooklyn Bridge

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : JPP-29.1-012825								
Q1215-04	JPP-29.1-012825	TCLP	Barium	437	J	62.8	500	ug/L
Q1215-04	JPP-29.1-012825	TCLP	Lead	106		35.1	60.0	ug/L
Client ID : JPP-29.2-012825								
Q1215-08	JPP-29.2-012825	TCLP	Barium	288	J	62.8	500	ug/L
Q1215-08	JPP-29.2-012825	TCLP	Cadmium	1.36	J	0.94	30.0	ug/L
Q1215-08	JPP-29.2-012825	TCLP	Lead	144		35.1	60.0	ug/L



SAMPLE DATA

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/28/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	JPP-29.1-012825	SDG No.:	Q1215
Lab Sample ID:	Q1215-04	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	100	U	1	34.8	100	ug/L	01/31/25 12:30	02/10/25 15:20	SW6010	SW3050
7440-39-3	Barium	437	J	1	62.8	500	ug/L	01/31/25 12:30	02/10/25 15:20	SW6010	SW3050
7440-43-9	Cadmium	30.0	U	1	0.94	30.0	ug/L	01/31/25 12:30	02/10/25 15:20	SW6010	SW3050
7440-47-3	Chromium	50.0	U	1	6.60	50.0	ug/L	01/31/25 12:30	02/10/25 15:20	SW6010	SW3050
7439-92-1	Lead	106		1	35.1	60.0	ug/L	01/31/25 12:30	02/10/25 15:20	SW6010	SW3050
7439-97-6	Mercury	2.00	U	1	0.81	2.00	ug/L	02/03/25 09:25	02/03/25 16:22	SW7470A	
7782-49-2	Selenium	100	U	1	58.8	100	ug/L	01/31/25 12:30	02/10/25 15:20	SW6010	SW3050
7440-22-4	Silver	50.0	U	1	5.80	50.0	ug/L	01/31/25 12:30	02/10/25 15:20	SW6010	SW3050

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	TCLP-FULL			

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

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:	01/28/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	JPP-29.2-012825	SDG No.:	Q1215
Lab Sample ID:	Q1215-08	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	100	U	1	34.8	100	ug/L	01/31/25 12:30	02/10/25 15:25	SW6010	SW3050
7440-39-3	Barium	288	J	1	62.8	500	ug/L	01/31/25 12:30	02/10/25 15:25	SW6010	SW3050
7440-43-9	Cadmium	1.36	J	1	0.94	30.0	ug/L	01/31/25 12:30	02/10/25 15:25	SW6010	SW3050
7440-47-3	Chromium	50.0	U	1	6.60	50.0	ug/L	01/31/25 12:30	02/10/25 15:25	SW6010	SW3050
7439-92-1	Lead	144		1	35.1	60.0	ug/L	01/31/25 12:30	02/10/25 15:25	SW6010	SW3050
7439-97-6	Mercury	2.00	U	1	0.81	2.00	ug/L	02/03/25 09:25	02/03/25 16:24	SW7470A	
7782-49-2	Selenium	100	U	1	58.8	100	ug/L	01/31/25 12:30	02/10/25 15:25	SW6010	SW3050
7440-22-4	Silver	50.0	U	1	5.80	50.0	ug/L	01/31/25 12:30	02/10/25 15:25	SW6010	SW3050

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	TCLP-FULL			

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

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



METAL CALIBRATION DATA

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: RU2 Engineering, LLC **SDG No.:** Q1215
Contract: RUTW01 **Lab Code:** CHEM **Case No.:** Q1215 **SAS No.:** Q1215
Initial Calibration Source: EPA
Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV81	Mercury	3.69	4.0	92	90 - 110	CV	02/03/2025	15:59	LB134537

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: RU2 Engineering, LLC **SDG No.:** Q1215

Contract: RUTW01 **Lab Code:** CHEM **Case No.:** Q1215 **SAS No.:** Q1215

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV10	Mercury	5.01	5.0	100	90 - 110	CV	02/03/2025	16:03	LB134537
CCV11	Mercury	5.14	5.0	103	90 - 110	CV	02/03/2025	16:33	LB134537
CCV12	Mercury	4.98	5.0	100	90 - 110	CV	02/03/2025	17:01	LB134537
CCV13	Mercury	4.99	5.0	100	90 - 110	CV	02/03/2025	17:23	LB134537

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: RU2 Engineering, LLC **SDG No.:** Q1215

Contract: RUTW01 **Lab Code:** CHEM **Case No.:** Q1215 **SAS No.:** Q1215

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Arsenic	1030	1000	104	90 - 110	P	02/10/2025	14:06	LB134659
	Barium	502	520	97	90 - 110	P	02/10/2025	14:06	LB134659
	Cadmium	514	510	101	90 - 110	P	02/10/2025	14:06	LB134659
	Chromium	541	520	104	90 - 110	P	02/10/2025	14:06	LB134659
	Lead	1010	1000	101	90 - 110	P	02/10/2025	14:06	LB134659
	Selenium	1080	1000	108	90 - 110	P	02/10/2025	14:06	LB134659
	Silver	256	250	102	90 - 110	P	02/10/2025	14:06	LB134659

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: RU2 Engineering, LLC **SDG No.:** Q1215

Contract: RUTW01 **Lab Code:** CHEM **Case No.:** Q1215 **SAS No.:** Q1215

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Arsenic	21.0	20.0	105	80 - 120	P	02/10/2025	14:20	LB134659
	Barium	84.5	100	84	80 - 120	P	02/10/2025	14:20	LB134659
	Cadmium	5.70	6.0	95	80 - 120	P	02/10/2025	14:20	LB134659
	Chromium	9.89	10.0	99	80 - 120	P	02/10/2025	14:20	LB134659
	Lead	11.5	12.0	95	80 - 120	P	02/10/2025	14:20	LB134659
	Selenium	20.3	20.0	101	80 - 120	P	02/10/2025	14:20	LB134659
	Silver	10.3	10.0	103	80 - 120	P	02/10/2025	14:20	LB134659

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: RU2 Engineering, LLC SDG No.: Q1215
Contract: RUTW01 Lab Code: CHEM Case No.: Q1215 SAS No.: Q1215
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Arsenic	5020	5000	100	90 - 110	P	02/10/2025	14:59	LB134659
	Barium	9910	10000	99	90 - 110	P	02/10/2025	14:59	LB134659
	Cadmium	2640	2500	106	90 - 110	P	02/10/2025	14:59	LB134659
	Chromium	998	1000	100	90 - 110	P	02/10/2025	14:59	LB134659
	Lead	4860	5000	97	90 - 110	P	02/10/2025	14:59	LB134659
	Selenium	5080	5000	102	90 - 110	P	02/10/2025	14:59	LB134659
	Silver	1240	1250	99	90 - 110	P	02/10/2025	14:59	LB134659
CCV02	Arsenic	4720	5000	94	90 - 110	P	02/10/2025	16:05	LB134659
	Barium	10500	10000	105	90 - 110	P	02/10/2025	16:05	LB134659
	Cadmium	2720	2500	109	90 - 110	P	02/10/2025	16:05	LB134659
	Chromium	929	1000	93	90 - 110	P	02/10/2025	16:05	LB134659
	Lead	4520	5000	90	90 - 110	P	02/10/2025	16:05	LB134659
	Selenium	4790	5000	96	90 - 110	P	02/10/2025	16:05	LB134659
	Silver	1150	1250	92	90 - 110	P	02/10/2025	16:05	LB134659
CCV03	Arsenic	5040	5000	101	90 - 110	P	02/10/2025	16:57	LB134659
	Barium	9210	10000	92	90 - 110	P	02/10/2025	16:57	LB134659
	Cadmium	2370	2500	95	90 - 110	P	02/10/2025	16:57	LB134659
	Chromium	991	1000	99	90 - 110	P	02/10/2025	16:57	LB134659
	Lead	4770	5000	95	90 - 110	P	02/10/2025	16:57	LB134659
	Selenium	5140	5000	103	90 - 110	P	02/10/2025	16:57	LB134659
	Silver	1220	1250	98	90 - 110	P	02/10/2025	16:57	LB134659
CCV04	Arsenic	4910	5000	98	90 - 110	P	02/10/2025	17:53	LB134659
	Barium	9210	10000	92	90 - 110	P	02/10/2025	17:53	LB134659
	Cadmium	2320	2500	93	90 - 110	P	02/10/2025	17:53	LB134659
	Chromium	972	1000	97	90 - 110	P	02/10/2025	17:53	LB134659
	Lead	4680	5000	94	90 - 110	P	02/10/2025	17:53	LB134659
	Selenium	5010	5000	100	90 - 110	P	02/10/2025	17:53	LB134659
	Silver	1210	1250	97	90 - 110	P	02/10/2025	17:53	LB134659
CCV05	Arsenic	5050	5000	101	90 - 110	P	02/10/2025	18:48	LB134659
	Barium	9470	10000	95	90 - 110	P	02/10/2025	18:48	LB134659
	Cadmium	2360	2500	94	90 - 110	P	02/10/2025	18:48	LB134659
	Chromium	969	1000	97	90 - 110	P	02/10/2025	18:48	LB134659
	Lead	4760	5000	95	90 - 110	P	02/10/2025	18:48	LB134659
	Selenium	5190	5000	104	90 - 110	P	02/10/2025	18:48	LB134659

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: RU2 Engineering, LLC **SDG No.:** Q1215

Contract: RUTW01 **Lab Code:** CHEM **Case No.:** Q1215 **SAS No.:** Q1215

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Silver	1200	1250	96	90 - 110	P	02/10/2025	18:48	LB134659
CCV06	Arsenic	4890	5000	98	90 - 110	P	02/10/2025	19:40	LB134659
	Barium	9330	10000	93	90 - 110	P	02/10/2025	19:40	LB134659
	Cadmium	2290	2500	92	90 - 110	P	02/10/2025	19:40	LB134659
	Chromium	970	1000	97	90 - 110	P	02/10/2025	19:40	LB134659
	Lead	4630	5000	93	90 - 110	P	02/10/2025	19:40	LB134659
	Selenium	5000	5000	100	90 - 110	P	02/10/2025	19:40	LB134659
	Silver	1200	1250	96	90 - 110	P	02/10/2025	19:40	LB134659
CCV07	Arsenic	4890	5000	98	90 - 110	P	02/10/2025	20:36	LB134659
	Barium	9290	10000	93	90 - 110	P	02/10/2025	20:36	LB134659
	Cadmium	2290	2500	92	90 - 110	P	02/10/2025	20:36	LB134659
	Chromium	968	1000	97	90 - 110	P	02/10/2025	20:36	LB134659
	Lead	4650	5000	93	90 - 110	P	02/10/2025	20:36	LB134659
	Selenium	5010	5000	100	90 - 110	P	02/10/2025	20:36	LB134659
	Silver	1200	1250	96	90 - 110	P	02/10/2025	20:36	LB134659
CCV08	Arsenic	4920	5000	98	90 - 110	P	02/10/2025	21:02	LB134659
	Barium	9300	10000	93	90 - 110	P	02/10/2025	21:02	LB134659
	Cadmium	2320	2500	93	90 - 110	P	02/10/2025	21:02	LB134659
	Chromium	983	1000	98	90 - 110	P	02/10/2025	21:02	LB134659
	Lead	4700	5000	94	90 - 110	P	02/10/2025	21:02	LB134659
	Selenium	5010	5000	100	90 - 110	P	02/10/2025	21:02	LB134659
	Silver	1220	1250	97	90 - 110	P	02/10/2025	21:02	LB134659



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Metals

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CRDL STANDARD FOR AA & ICP

Client: RU2 Engineering, LLC **SDG No.:** Q1215
Contract: RUTW01 **Lab Code:** CHEM **Case No.:** Q1215 **SAS No.:** Q1215
Initial Calibration Source: _____
Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRA	Mercury	0.26	0.2	130	40 - 160	CV	02/03/2025	16:08	LB134537
CRI01	Arsenic	21.7	20.0	108	40 - 160	P	02/10/2025	14:31	LB134659
	Barium	88.7	100	89	40 - 160	P	02/10/2025	14:31	LB134659
	Cadmium	5.75	6.0	96	40 - 160	P	02/10/2025	14:31	LB134659
	Chromium	10.1	10.0	101	40 - 160	P	02/10/2025	14:31	LB134659
	Lead	11.5	12.0	96	40 - 160	P	02/10/2025	14:31	LB134659
	Selenium	19.7	20.0	99	40 - 160	P	02/10/2025	14:31	LB134659
	Silver	10.6	10.0	106	40 - 160	P	02/10/2025	14:31	LB134659



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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:	RU2 Engineering, LLC				SDG No.:	Q1215			
Contract:	RUTW01	Lab Code:	CHEM	Case No.:	Q1215	SAS No.:	Q1215		
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB81	Mercury	0.20	+/-0.20	U	0.20	CV	02/03/2025	16:01	LB134537

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: RU2 Engineering, LLC **SDG No.:** Q1215
Contract: RUTW01 **Lab Code:** CHEM **Case No.:** Q1215 **SAS No.:** Q1215

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB10	Mercury	0.20	+/-0.20	U	0.20	CV	02/03/2025	16:06	LB134537
CCB11	Mercury	0.20	+/-0.20	U	0.20	CV	02/03/2025	16:36	LB134537
CCB12	Mercury	0.20	+/-0.20	U	0.20	CV	02/03/2025	17:03	LB134537
CCB13	Mercury	0.20	+/-0.20	U	0.20	CV	02/03/2025	17:26	LB134537

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: RU2 Engineering, LLC **SDG No.:** Q1215
Contract: RUTW01 **Lab Code:** CHEM **Case No.:** Q1215 **SAS No.:** Q1215

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	20.0	+/-20.0	U	20.0	P	02/10/2025	14:26	LB134659
	Barium	100	+/-100	U	100	P	02/10/2025	14:26	LB134659
	Cadmium	6.00	+/-6.00	U	6.00	P	02/10/2025	14:26	LB134659
	Chromium	10.0	+/-10.0	U	10.0	P	02/10/2025	14:26	LB134659
	Lead	12.0	+/-12.0	U	12.0	P	02/10/2025	14:26	LB134659
	Selenium	20.0	+/-20.0	U	20.0	P	02/10/2025	14:26	LB134659
	Silver	10.0	+/-10.0	U	10.0	P	02/10/2025	14:26	LB134659

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: <u>RU2 Engineering, LLC</u>		SDG No.: <u>Q1215</u>							
Contract: <u>RUTW01</u>	Lab Code: <u>CHEM</u>	Case No.: <u>Q1215</u>	SAS No.: <u>Q1215</u>						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Arsenic	20.0	+/-20.0	U	20.0	P	02/10/2025	15:03	LB134659
	Barium	100	+/-100	U	100	P	02/10/2025	15:03	LB134659
	Cadmium	6.00	+/-6.00	U	6.00	P	02/10/2025	15:03	LB134659
	Chromium	10.0	+/-10.0	U	10.0	P	02/10/2025	15:03	LB134659
	Lead	12.0	+/-12.0	U	12.0	P	02/10/2025	15:03	LB134659
	Selenium	20.0	+/-20.0	U	20.0	P	02/10/2025	15:03	LB134659
	Silver	10.0	+/-10.0	U	10.0	P	02/10/2025	15:03	LB134659
CCB02	Arsenic	20.0	+/-20.0	U	20.0	P	02/10/2025	16:08	LB134659
	Barium	100	+/-100	U	100	P	02/10/2025	16:08	LB134659
	Cadmium	6.00	+/-6.00	U	6.00	P	02/10/2025	16:08	LB134659
	Chromium	10.0	+/-10.0	U	10.0	P	02/10/2025	16:08	LB134659
	Lead	12.0	+/-12.0	U	12.0	P	02/10/2025	16:08	LB134659
	Selenium	20.0	+/-20.0	U	20.0	P	02/10/2025	16:08	LB134659
	Silver	10.0	+/-10.0	U	10.0	P	02/10/2025	16:08	LB134659
CCB03	Arsenic	20.0	+/-20.0	U	20.0	P	02/10/2025	17:06	LB134659
	Barium	100	+/-100	U	100	P	02/10/2025	17:06	LB134659
	Cadmium	6.00	+/-6.00	U	6.00	P	02/10/2025	17:06	LB134659
	Chromium	10.0	+/-10.0	U	10.0	P	02/10/2025	17:06	LB134659
	Lead	12.0	+/-12.0	U	12.0	P	02/10/2025	17:06	LB134659
	Selenium	20.0	+/-20.0	U	20.0	P	02/10/2025	17:06	LB134659
	Silver	10.0	+/-10.0	U	10.0	P	02/10/2025	17:06	LB134659
CCB04	Arsenic	20.0	+/-20.0	U	20.0	P	02/10/2025	18:00	LB134659
	Barium	100	+/-100	U	100	P	02/10/2025	18:00	LB134659
	Cadmium	6.00	+/-6.00	U	6.00	P	02/10/2025	18:00	LB134659
	Chromium	10.0	+/-10.0	U	10.0	P	02/10/2025	18:00	LB134659
	Lead	12.0	+/-12.0	U	12.0	P	02/10/2025	18:00	LB134659
	Selenium	20.0	+/-20.0	U	20.0	P	02/10/2025	18:00	LB134659
	Silver	10.0	+/-10.0	U	10.0	P	02/10/2025	18:00	LB134659
CCB05	Arsenic	20.0	+/-20.0	U	20.0	P	02/10/2025	18:52	LB134659
	Barium	100	+/-100	U	100	P	02/10/2025	18:52	LB134659
	Cadmium	6.00	+/-6.00	U	6.00	P	02/10/2025	18:52	LB134659
	Chromium	10.0	+/-10.0	U	10.0	P	02/10/2025	18:52	LB134659
	Lead	12.0	+/-12.0	U	12.0	P	02/10/2025	18:52	LB134659
	Selenium	20.0	+/-20.0	U	20.0	P	02/10/2025	18:52	LB134659
	Silver	10.0	+/-10.0	U	10.0	P	02/10/2025	18:52	LB134659
CCB06	Arsenic	20.0	+/-20.0	U	20.0	P	02/10/2025	19:45	LB134659
	Barium	100	+/-100	U	100	P	02/10/2025	19:45	LB134659
	Cadmium	6.00	+/-6.00	U	6.00	P	02/10/2025	19:45	LB134659
	Chromium	10.0	+/-10.0	U	10.0	P	02/10/2025	19:45	LB134659

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: <u>RU2 Engineering, LLC</u>		SDG No.: <u>Q1215</u>							
Contract: <u>RUTW01</u>	Lab Code: <u>CHEM</u>	Case No.: <u>Q1215</u>	SAS No.: <u>Q1215</u>						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Lead	12.0	+/-12.0	U	12.0	P	02/10/2025	19:45	LB134659
	Selenium	20.0	+/-20.0	U	20.0	P	02/10/2025	19:45	LB134659
	Silver	10.0	+/-10.0	U	10.0	P	02/10/2025	19:45	LB134659
CCB07	Arsenic	20.0	+/-20.0	U	20.0	P	02/10/2025	20:41	LB134659
	Barium	100	+/-100	U	100	P	02/10/2025	20:41	LB134659
	Cadmium	6.00	+/-6.00	U	6.00	P	02/10/2025	20:41	LB134659
	Chromium	10.0	+/-10.0	U	10.0	P	02/10/2025	20:41	LB134659
	Lead	12.0	+/-12.0	U	12.0	P	02/10/2025	20:41	LB134659
	Selenium	20.0	+/-20.0	U	20.0	P	02/10/2025	20:41	LB134659
	Silver	10.0	+/-10.0	U	10.0	P	02/10/2025	20:41	LB134659
CCB08	Arsenic	20.0	+/-20.0	U	20.0	P	02/10/2025	21:06	LB134659
	Barium	100	+/-100	U	100	P	02/10/2025	21:06	LB134659
	Cadmium	6.00	+/-6.00	U	6.00	P	02/10/2025	21:06	LB134659
	Chromium	10.0	+/-10.0	U	10.0	P	02/10/2025	21:06	LB134659
	Lead	12.0	+/-12.0	U	12.0	P	02/10/2025	21:06	LB134659
	Selenium	20.0	+/-20.0	U	20.0	P	02/10/2025	21:06	LB134659
	Silver	10.0	+/-10.0	U	10.0	P	02/10/2025	21:06	LB134659

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: RU2 Engineering, LLC

SDG No.: Q1215

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB166356TB		WATER		Batch Number:	PB166487		Prep Date:	02/03/2025	
	Mercury	2.00	<2.00	U	2.00	CV	02/03/2025	17:16	LB134537
Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB166487BL		WATER		Batch Number:	PB166487		Prep Date:	02/03/2025	
	Mercury	0.20	<0.20	U	0.20	CV	02/03/2025	16:15	LB134537

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: RU2 Engineering, LLC

SDG No.: Q1215

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB166356TB		WATER		Batch Number:	PB166425		Prep Date:	01/31/2025	
	Arsenic	100	<100	U	100	P	02/10/2025	15:07	LB134659
	Barium	500	<500	U	500	P	02/10/2025	15:07	LB134659
	Cadmium	30.0	<30.0	U	30.0	P	02/10/2025	15:07	LB134659
	Chromium	50.0	<50.0	U	50.0	P	02/10/2025	15:07	LB134659
	Lead	60.0	<60.0	U	60.0	P	02/10/2025	15:07	LB134659
	Selenium	100	<100	U	100	P	02/10/2025	15:07	LB134659
	Silver	50.0	<50.0	U	50.0	P	02/10/2025	15:07	LB134659
Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB166425BL		WATER		Batch Number:	PB166425		Prep Date:	01/31/2025	
	Arsenic	100	<100	U	100	P	02/10/2025	15:12	LB134659
	Barium	500	<500	U	500	P	02/10/2025	15:12	LB134659
	Cadmium	30.0	<30.0	U	30.0	P	02/10/2025	15:12	LB134659
	Chromium	10.5	<50.0	J	50.0	P	02/10/2025	15:12	LB134659
	Lead	60.0	<60.0	U	60.0	P	02/10/2025	15:12	LB134659
	Selenium	100	<100	U	100	P	02/10/2025	15:12	LB134659
	Silver	50.0	<50.0	U	50.0	P	02/10/2025	15:12	LB134659

Metals
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INTERFERENCE CHECK SAMPLE

Client: <u>RU2 Engineering, LLC</u>	SDG No.: <u>Q1215</u>
Contract: <u>RUTW01</u>	Lab Code: <u>CHEM</u>
ICS Source: <u>EPA</u>	Case No.: <u>Q1215</u>
	SAS No.: <u>Q1215</u>
	Instrument ID: <u>P4</u>

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Arsenic	1.27			-20	20	02/10/2025	14:35	LB134659
	Barium	1.84	6.0	31	-94	106	02/10/2025	14:35	LB134659
	Cadmium	3.51	1.0	351	-5	7	02/10/2025	14:35	LB134659
	Chromium	56.7	52.0	109	42	62	02/10/2025	14:35	LB134659
	Lead	8.37			-12	12	02/10/2025	14:35	LB134659
	Selenium	-6.12			-20	20	02/10/2025	14:35	LB134659
	Silver	2.79			-10	10	02/10/2025	14:35	LB134659
ICSAB01	Arsenic	106	104	102	88.4	120	02/10/2025	14:41	LB134659
	Barium	442	537	82	437	637	02/10/2025	14:41	LB134659
	Cadmium	963	972	99	826	1120	02/10/2025	14:41	LB134659
	Chromium	556	542	103	460	624	02/10/2025	14:41	LB134659
	Lead	55.7	49.0	114	37	61	02/10/2025	14:41	LB134659
	Selenium	44.9	46.0	98	26	66	02/10/2025	14:41	LB134659
	Silver	216	201	108	170	232	02/10/2025	14:41	LB134659



METAL QC DATA

metals
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MATRIX SPIKE SUMMARY

client: <u>RU2 Engineering, LLC</u>	level: <u>low</u>	sdg no.: <u>Q1215</u>
contract: <u>RUTW01</u>	lab code: <u>CHEM</u>	case no.: <u>Q1215</u> sas no.: <u>Q1215</u>
matrix: <u>Water</u>	sample id: <u>Q1235-08</u>	client id: <u>JPP-16.1-012925MS</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>Q1235-08MS</u>	Percent Solids for Spike Sample: <u>NA</u>

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	75 - 125	3990		100	U	4000	100		P
Barium	ug/L	75 - 125	1220		333	J	1000	88		P
Cadmium	ug/L	75 - 125	916		30.0	U	1000	92		P
Chromium	ug/L	75 - 125	1920		9.60	J	2000	95		P
Lead	ug/L	75 - 125	4380		60.0	U	5000	88		P
Mercury	ug/L	75 - 125	44.2		2.00	U	40.0	110		CV
Selenium	ug/L	75 - 125	9960		100	U	10000	100		P
Silver	ug/L	75 - 125	363		50.0	U	380	96		P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: <u>RU2 Engineering, LLC</u>	level: <u>low</u>	sdg no.: <u>Q1215</u>
contract: <u>RUTW01</u>	lab code: <u>CHEM</u>	case no.: <u>Q1215</u> sas no.: <u>Q1215</u>
matrix: <u>Water</u>	sample id: <u>Q1235-08</u>	client id: <u>JPP-16.1-012925MSD</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>Q1235-08MSD</u>	Percent Solids for Spike Sample: <u>NA</u>

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	75 - 125	3880		100	U	4000	97		P
Barium	ug/L	75 - 125	1260		333	J	1000	93		P
Cadmium	ug/L	75 - 125	904		30.0	U	1000	90		P
Chromium	ug/L	75 - 125	1920		9.60	J	2000	96		P
Lead	ug/L	75 - 125	4340		60.0	U	5000	87		P
Mercury	ug/L	75 - 125	41.2		2.00	U	40.0	103		CV
Selenium	ug/L	75 - 125	9640		100	U	10000	96		P
Silver	ug/L	75 - 125	360		50.0	U	380	95		P

Metals
- 5b -

Client: RU2 Engineering, LLC **SDG No.:** Q1215
Contract: RUTW01 **Lab Code:** CHEM **Case No.:** Q1215 **SAS No.:** Q1215
Matrix: **Level:** LOW **Client ID:**
Sample ID: **Spiked ID:**

Analyte	Units	Acceptance Limit %R	C	Sample Result	C	Spike Added	% Recovery	Qual	M
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Metals

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DUPLICATE SAMPLE SUMMARY

Client: RU2 Engineering, LLC **Level:** LOW **SDG No.:** Q1215

Contract: RUTW01 **Lab Code:** CHEM **Case No.:** Q1215 **SAS No.:** Q1215

Matrix: Water **Sample ID:** Q1235-08 **Client ID:** JPP-16.1-012925DUP

Percent Solids for Sample: NA **Duplicate ID** Q1235-08DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	100	U	100	U			P
Barium	ug/L	20	333	J	330	J	1		P
Cadmium	ug/L	20	30.0	U	30.0	U			P
Chromium	ug/L	20	9.60	J	11.0	J	13		P
Lead	ug/L	20	60.0	U	60.0	U			P
Mercury	ug/L	20	2.00	U	2.00	U			CV
Selenium	ug/L	20	100	U	100	U			P
Silver	ug/L	20	50.0	U	50.0	U			P

Metals

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DUPLICATE SAMPLE SUMMARY

Client: RU2 Engineering, LLC **Level:** LOW **SDG No.:** Q1215

Contract: RUTW01 **Lab Code:** CHEM **Case No.:** Q1215 **SAS No.:** Q1215

Matrix: Water **Sample ID:** Q1235-08MS **Client ID:** JPP-16.1-012925MSD

Percent Solids for Sample: NA **Duplicate ID** Q1235-08MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	3990		3880		3		P
Barium	ug/L	20	1220		1260		3		P
Cadmium	ug/L	20	916		904		1		P
Chromium	ug/L	20	1920		1920		0		P
Lead	ug/L	20	4380		4340		1		P
Mercury	ug/L	20	44.2		41.2		7		CV
Selenium	ug/L	20	9960		9640		3		P
Silver	ug/L	20	363		360		1		P

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: RU2 Engineering, LLC SDG No.: Q1215
 Contract: RUTW01 Lab Code: CHEM Case No.: Q1215 SAS No.: Q1215

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB166425BS							
Arsenic	ug/L	4000	3710		93	80 - 120	P
Barium	ug/L	1000	885		88	80 - 120	P
Cadmium	ug/L	1000	964		96	80 - 120	P
Chromium	ug/L	2000	2000		100	80 - 120	P
Lead	ug/L	5000	4420		88	80 - 120	P
Selenium	ug/L	10000	9040		90	80 - 120	P
Silver	ug/L	380	350		92	80 - 120	P

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: RU2 Engineering, LLC **SDG No.:** Q1215
Contract: RUTW01 **Lab Code:** CHEM **Case No.:** Q1215 **SAS No.:** Q1215

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB166487BS Mercury	ug/L	4.0	4.10		102	80 - 120	CV

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

JPP-16.1-012925L

Lab Name: Chemtech Consulting Group

Contract: RUTW01

Lab Code: CHEM **Lb No.:** lb134659

Lab Sample ID : Q1235-08L **SDG No.:** Q1215

Matrix (soil/water): Water

Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Difference	Q	M
		C		C			
Arsenic	100	U	500	U			P
Barium	333	J	2500	U	100.0		P
Cadmium	30.0	U	150	U			P
Chromium	9.60	J	62.4	J	550		P
Lead	60.0	U	300	U			P
Mercury	2.00	U	10.0	U			CV
Selenium	100	U	500	U			P
Silver	50.0	U	250	U			P



METAL PREPARATION & INSTRUMENT DATA

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: RU2 Engineering, LLC

SDG No.: Q1215

Contract: RUTW01

Lab Code: CHEM

Case No.: Q1215

SAS No.: Q1215

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Al	Ca	Fe	Mg	Ag
Arsenic	193.759	0.0000000	0.0000000	-0.0000440	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	-0.0001440	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	-0.0001490	0.0000000	0.0000000

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: RU2 Engineering, LLC

SDG No.: Q1215

Contract: RUTW01

Lab Code: CHEM

Case No.: Q1215

SAS No.: Q1215

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		As	Ba	Be	Cd	Co
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0003170	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	-0.0003570
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: RU2 Engineering, LLC

SDG No.: Q1215

Contract: RUTW01

Lab Code: CHEM

Case No.: Q1215

SAS No.: Q1215

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Cr	Cu	K	Mn	Mo
Arsenic	193.759	-0.0029000	0.0000000	0.0000000	0.0000000	0.0004900
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0007460	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000120

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: RU2 Engineering, LLC

SDG No.: Q1215

Contract: RUTW01

Lab Code: CHEM

Case No.: Q1215

SAS No.: Q1215

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Na	Ni	Pb	Sb	Se
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
Selenium	196.090	0.0000000	0.0000000	0.0003330	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: RU2 Engineering, LLC

SDG No.: Q1215

Contract: RUTW01

Lab Code: CHEM

Case No.: Q1215

SAS No.: Q1215

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Sn	Ti	Tl	V	Zn
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Lead	220.353	0.0000000	-0.0003610	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	-0.0007420	0.0000000	0.0000000	0.0000000

METAL PREPARATION & ANALYICAL SUMMARY

Metals

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SAMPLE PREPARATION SUMMARY

Client:	<u>RU2 Engineering, LLC</u>	SDG No.:	<u>Q1215</u>
Contract:	<u>RUTW01</u>	Lab Code:	<u>CHEM</u>
		Method:	<u></u>
		Case No.:	<u>Q1215</u>
		SAS No.:	<u>Q1215</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB166425							
PB166356TB	PB166356TB	MB	WATER	01/31/2025	5.0	25.0	
PB166425BL	PB166425BL	MB	WATER	01/31/2025	5.0	25.0	
PB166425BS	PB166425BS	LCS	WATER	01/31/2025	5.0	25.0	
Q1215-04	JPP-29.1-012825	SAM	WATER	01/31/2025	5.0	25.0	
Q1215-08	JPP-29.2-012825	SAM	WATER	01/31/2025	5.0	25.0	
Q1235-08DUP	JPP-16.1-012925DUP	DUP	WATER	01/31/2025	5.0	25.0	
Q1235-08MS	JPP-16.1-012925MS	MS	WATER	01/31/2025	5.0	25.0	
Q1235-08MSD	JPP-16.1-012925MSD	MSD	WATER	01/31/2025	5.0	25.0	

Metals

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SAMPLE PREPARATION SUMMARY

Client:	<u>RU2 Engineering, LLC</u>	SDG No.:	<u>Q1215</u>
Contract:	<u>RUTW01</u>	Lab Code:	<u>CHEM</u>
		Method:	<u></u>
		Case No.:	<u>Q1215</u>
		SAS No.:	<u>Q1215</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB166487							
PB166356TB	PB166356TB	MB	WATER	02/03/2025	3.0	30.0	
PB166487BL	PB166487BL	MB	WATER	02/03/2025	30.0	30.0	
PB166487BS	PB166487BS	LCS	WATER	02/03/2025	30.0	30.0	
Q1215-04	JPP-29.1-012825	SAM	WATER	02/03/2025	3.0	30.0	
Q1215-08	JPP-29.2-012825	SAM	WATER	02/03/2025	3.0	30.0	
Q1235-08DUP	JPP-16.1-012925DUP	DUP	WATER	02/03/2025	3.0	30.0	
Q1235-08MS	JPP-16.1-012925MS	MS	WATER	02/03/2025	3.0	30.0	
Q1235-08MSD	JPP-16.1-012925MSD	MSD	WATER	02/03/2025	3.0	30.0	

metals
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ANALYSIS RUN LOG

Client: RU2 Engineering, LLC **Contract:** RUTW01

Lab code: CHEM **Case no.:** Q1215 **Sas no.:** Q1215 **Sdg no.:** Q1215

Instrument id number: **Method:** **Run number:** LB134537

Start date: 02/03/2025 **End date:** 02/03/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1535	HG
S0.2	S0.2	1	1537	HG
S2.5	S2.5	1	1541	HG
S5	S5	1	1543	HG
S7.5	S7.5	1	1546	HG
S10	S10	1	1554	HG
ICV81	ICV81	1	1559	HG
ICB81	ICB81	1	1601	HG
CCV10	CCV10	1	1603	HG
CCB10	CCB10	1	1606	HG
CRA	CRA	1	1608	HG
PB166487BL	PB166487BL	1	1615	HG
PB166487BS	PB166487BS	1	1620	HG
Q1215-04	JPP-29.1-012825	1	1622	HG
Q1215-08	JPP-29.2-012825	1	1624	HG
CCV11	CCV11	1	1633	HG
CCB11	CCB11	1	1636	HG
CCV12	CCV12	1	1701	HG
CCB12	CCB12	1	1703	HG
Q1235-08DUP	JPP-16.1-012925DUP	1	1710	HG
Q1235-08MS	JPP-16.1-012925MS	1	1712	HG
Q1235-08MSD	JPP-16.1-012925MSD	1	1714	HG
PB166356TB	PB166356TB	1	1716	HG
Q1235-08L	JPP-16.1-012925L	5	1719	HG
CCV13	CCV13	1	1723	HG
CCB13	CCB13	1	1726	HG

metals
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ANALYSIS RUN LOG

Client: RU2 Engineering, LLC **Contract:** RUTW01

Lab code: CHEM **Case no.:** Q1215 **Sas no.:** Q1215 **Sdg no.:** Q1215

Instrument id number: **Method:** **Run number:** LB134659

Start date: 02/10/2025 **End date:** 02/10/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1328	Ag,As,Ba,Cd,Cr,Pb,Se
S1	S1	1	1332	Ag,As,Ba,Cd,Cr,Pb,Se
S2	S2	1	1336	Ag,As,Ba,Cd,Cr,Pb,Se
S3	S3	1	1340	Ag,As,Ba,Cd,Cr,Pb,Se
S4	S4	1	1344	Ag,As,Ba,Cd,Cr,Pb,Se
S5	S5	1	1349	Ag,As,Ba,Cd,Cr,Pb,Se
ICV01	ICV01	1	1406	Ag,As,Ba,Cd,Cr,Pb,Se
LLICV01	LLICV01	1	1420	Ag,As,Ba,Cd,Cr,Pb,Se
ICB01	ICB01	1	1426	Ag,As,Ba,Cd,Cr,Pb,Se
CRI01	CRI01	1	1431	Ag,As,Ba,Cd,Cr,Pb,Se
ICSA01	ICSA01	1	1435	Ag,As,Ba,Cd,Cr,Pb,Se
ICSAB01	ICSAB01	1	1441	Ag,As,Ba,Cd,Cr,Pb,Se
CCV01	CCV01	1	1459	Ag,As,Ba,Cd,Cr,Pb,Se
CCB01	CCB01	1	1503	Ag,As,Ba,Cd,Cr,Pb,Se
PB166356TB	PB166356TB	1	1507	Ag,As,Ba,Cd,Cr,Pb,Se
PB166425BL	PB166425BL	1	1512	Ag,As,Ba,Cd,Cr,Pb,Se
PB166425BS	PB166425BS	1	1516	Ag,As,Ba,Cd,Cr,Pb,Se
Q1215-04	JPP-29.1-012825	1	1520	Ag,As,Ba,Cd,Cr,Pb,Se
Q1215-08	JPP-29.2-012825	1	1525	Ag,As,Ba,Cd,Cr,Pb,Se
CCV02	CCV02	1	1605	Ag,As,Ba,Cd,Cr,Pb,Se
CCB02	CCB02	1	1608	Ag,As,Ba,Cd,Cr,Pb,Se
Q1235-08DUP	JPP-16.1-012925DUP	1	1644	Ag,As,Ba,Cd,Cr,Pb,Se
Q1235-08L	JPP-16.1-012925L	5	1648	Ag,As,Ba,Cd,Cr,Pb,Se
Q1235-08MS	JPP-16.1-012925MS	1	1652	Ag,As,Ba,Cd,Cr,Pb,Se
CCV03	CCV03	1	1657	Ag,As,Ba,Cd,Cr,Pb,Se
CCB03	CCB03	1	1706	Ag,As,Ba,Cd,Cr,Pb,Se
Q1235-08MSD	JPP-16.1-012925MSD	1	1711	Ag,As,Ba,Cd,Cr,Pb,Se
CCV04	CCV04	1	1753	Ag,As,Ba,Cd,Cr,Pb,Se
CCB04	CCB04	1	1800	Ag,As,Ba,Cd,Cr,Pb,Se
CCV05	CCV05	1	1848	Ag,As,Ba,Cd,Cr,Pb,Se
CCB05	CCB05	1	1852	Ag,As,Ba,Cd,Cr,Pb,Se
CCV06	CCV06	1	1940	Ag,As,Ba,Cd,Cr,Pb,Se
CCB06	CCB06	1	1945	Ag,As,Ba,Cd,Cr,Pb,Se
CCV07	CCV07	1	2036	Ag,As,Ba,Cd,Cr,Pb,Se
CCB07	CCB07	1	2041	Ag,As,Ba,Cd,Cr,Pb,Se
CCV08	CCV08	1	2102	Ag,As,Ba,Cd,Cr,Pb,Se
CCB08	CCB08	1	2106	Ag,As,Ba,Cd,Cr,Pb,Se