



SDG No.: Q1525

Client: G Environmental

Project ID: DPW

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :	MW10							
Q1525-01	MW10	Water	Iron	98200		18.5	50.0	ug/L
Q1525-01	MW10	Water	Manganese	24800	D	7.30	50.0	ug/L
Q1525-01	MW10	Water	Sodium	993000		237	1000	ug/L

J



SAMPLE DATA

Report of Analysis

Client:	G Environmental	Date Collected:	03/06/25
Project:	DPW	Date Received:	03/07/25
Client Sample ID:	MW10	SDG No.:	Q1525
Lab Sample ID:	Q1525-01	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7439-89-6	Iron	98200		1	18.5	50.0	ug/L	03/10/25 08:55	03/13/25 16:08	SW6010	SW3010
7439-96-5	Manganese	24800	D	5	7.30	50.0	ug/L	03/10/25 08:55	03/13/25 17:59	SW6010	SW3010
7440-23-5	Sodium	993000		1	237	1000	ug/L	03/10/25 08:55	03/13/25 16:08	SW6010	SW3010

Color Before:	Light Brown	Clarity Before:	Cloudy	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	Metals Group3			

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



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Fax : 908 789 8922

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:	G Environmental				SDG No.:	Q1525			
Contract:	GENV01	Lab Code:	CHEM		Case No.:	Q1525	SAS No.:	Q1525	
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Iron	100	+/-100	U	100	P	03/12/2025	11:01	LB135011
	Manganese	20.0	+/-20.0	U	20.0	P	03/12/2025	11:01	LB135011
	Sodium	2000	+/-2000	U	2000	P	03/12/2025	11:01	LB135011

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: G Environmental		SDG No.: Q1525							
Contract: GENV01	Lab Code: CHEM	Case No.: Q1525	SAS No.: Q1525						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Iron	100	+/-100	U	100	P	03/12/2025	11:34	LB135011
	Manganese	20.0	+/-20.0	U	20.0	P	03/12/2025	11:34	LB135011
	Sodium	2000	+/-2000	U	2000	P	03/12/2025	11:34	LB135011
CCB02	Iron	100	+/-100	U	100	P	03/12/2025	12:24	LB135011
	Manganese	20.0	+/-20.0	U	20.0	P	03/12/2025	12:24	LB135011
	Sodium	2000	+/-2000	U	2000	P	03/12/2025	12:24	LB135011
CCB03	Iron	100	+/-100	U	100	P	03/12/2025	13:14	LB135011
	Manganese	20.0	+/-20.0	U	20.0	P	03/12/2025	13:14	LB135011
	Sodium	2000	+/-2000	U	2000	P	03/12/2025	13:14	LB135011
CCB04	Iron	100	+/-100	U	100	P	03/12/2025	14:28	LB135011
	Manganese	20.0	+/-20.0	U	20.0	P	03/12/2025	14:28	LB135011
	Sodium	2000	+/-2000	U	2000	P	03/12/2025	14:28	LB135011
CCB05	Iron	100	+/-100	U	100	P	03/12/2025	15:29	LB135011
	Manganese	20.0	+/-20.0	U	20.0	P	03/12/2025	15:29	LB135011
	Sodium	2000	+/-2000	U	2000	P	03/12/2025	15:29	LB135011
CCB06	Iron	100	+/-100	U	100	P	03/12/2025	16:30	LB135011
	Manganese	20.0	+/-20.0	U	20.0	P	03/12/2025	16:30	LB135011
	Sodium	2000	+/-2000	U	2000	P	03/12/2025	16:30	LB135011
CCB07	Iron	100	+/-100	U	100	P	03/12/2025	17:30	LB135011
	Manganese	20.0	+/-20.0	U	20.0	P	03/12/2025	17:30	LB135011
	Sodium	2000	+/-2000	U	2000	P	03/12/2025	17:30	LB135011
CCB08	Iron	100	+/-100	U	100	P	03/12/2025	18:27	LB135011
	Manganese	20.0	+/-20.0	U	20.0	P	03/12/2025	18:27	LB135011
	Sodium	2000	+/-2000	U	2000	P	03/12/2025	18:27	LB135011
CCB09	Iron	100	+/-100	U	100	P	03/12/2025	18:53	LB135011
	Manganese	20.0	+/-20.0	U	20.0	P	03/12/2025	18:53	LB135011
	Sodium	2000	+/-2000	U	2000	P	03/12/2025	18:53	LB135011

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: G Environmental **SDG No.:** Q1525
Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q1525 **SAS No.:** Q1525

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Iron	100	+/-100	U	100	P	03/13/2025	12:17	LB135035
	Manganese	20.0	+/-20.0	U	20.0	P	03/13/2025	12:17	LB135035
	Sodium	2000	+/-2000	U	2000	P	03/13/2025	12:17	LB135035

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: G Environmental **SDG No.:** Q1525
Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q1525 **SAS No.:** Q1525

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Iron	100	+/-100	U	100	P	03/13/2025	12:58	LB135035
	Manganese	20.0	+/-20.0	U	20.0	P	03/13/2025	12:58	LB135035
	Sodium	2000	+/-2000	U	2000	P	03/13/2025	12:58	LB135035
CCB02	Iron	100	+/-100	U	100	P	03/13/2025	13:54	LB135035
	Manganese	20.0	+/-20.0	U	20.0	P	03/13/2025	13:54	LB135035
	Sodium	2000	+/-2000	U	2000	P	03/13/2025	13:54	LB135035
CCB03	Iron	100	+/-100	U	100	P	03/13/2025	14:48	LB135035
	Manganese	20.0	+/-20.0	U	20.0	P	03/13/2025	14:48	LB135035
	Sodium	2000	+/-2000	U	2000	P	03/13/2025	14:48	LB135035
CCB04	Iron	100	+/-100	U	100	P	03/13/2025	15:42	LB135035
	Manganese	20.0	+/-20.0	U	20.0	P	03/13/2025	15:42	LB135035
	Sodium	2000	+/-2000	U	2000	P	03/13/2025	15:42	LB135035
CCB05	Iron	100	+/-100	U	100	P	03/13/2025	16:32	LB135035
	Manganese	20.0	+/-20.0	U	20.0	P	03/13/2025	16:32	LB135035
	Sodium	2000	+/-2000	U	2000	P	03/13/2025	16:32	LB135035
CCB06	Iron	100	+/-100	U	100	P	03/13/2025	17:25	LB135035
	Manganese	20.0	+/-20.0	U	20.0	P	03/13/2025	17:25	LB135035
	Sodium	2000	+/-2000	U	2000	P	03/13/2025	17:25	LB135035
CCB07	Iron	45.6	+/-100	J	100	P	03/13/2025	18:35	LB135035
	Manganese	20.0	+/-20.0	U	20.0	P	03/13/2025	18:35	LB135035
	Sodium	2000	+/-2000	U	2000	P	03/13/2025	18:35	LB135035
CCB08	Iron	100	+/-100	U	100	P	03/13/2025	19:03	LB135035
	Manganese	20.0	+/-20.0	U	20.0	P	03/13/2025	19:03	LB135035
	Sodium	2000	+/-2000	U	2000	P	03/13/2025	19:03	LB135035
CCB09	Iron	100	+/-100	U	100	P	03/13/2025	19:21	LB135035
	Manganese	20.0	+/-20.0	U	20.0	P	03/13/2025	19:21	LB135035
	Sodium	2000	+/-2000	U	2000	P	03/13/2025	19:21	LB135035

Metals
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PREPARATION BLANK SUMMARY

Client: G Environmental

SDG No.: Q1525

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167038BL	WATER			Batch Number:	PB167038		Prep Date:	03/10/2025	
	Iron	50.0	<50.0	U	50.0	P	03/12/2025	11:55	LB135011
	Manganese	10.0	<10.0	U	10.0	P	03/12/2025	11:55	LB135011
	Sodium	1000	<1000	U	1000	P	03/12/2025	11:55	LB135011



METAL CALIBRATION DATA

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: G Environmental **SDG No.:** Q1525
Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q1525 **SAS No.:** Q1525
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	Iron	10400	10000	104	90 - 110	P	03/12/2025	10:52	LB135011
	Manganese	508	520	98	90 - 110	P	03/12/2025	10:52	LB135011
	Sodium	10300	10000	103	90 - 110	P	03/12/2025	10:52	LB135011

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: G Environmental **SDG No.:** Q1525
Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q1525 **SAS No.:** Q1525
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	Iron	114	100	114	80 - 120	P	03/12/2025	10:56	LB135011
	Manganese	19.5	20.0	98	80 - 120	P	03/12/2025	10:56	LB135011
	Sodium	2050	2000	102	80 - 120	P	03/12/2025	10:56	LB135011

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: G Environmental SDG No.: Q1525
 Contract: GENV01 Lab Code: CHEM Case No.: Q1525 SAS No.: Q1525
 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	Iron	4790	5000	96	90 - 110	P	03/12/2025	11:29	LB135011
	Manganese	2350	2500	94	90 - 110	P	03/12/2025	11:29	LB135011
	Sodium	26200	25000	105	90 - 110	P	03/12/2025	11:29	LB135011
CCV02	Iron	4890	5000	98	90 - 110	P	03/12/2025	12:20	LB135011
	Manganese	2320	2500	93	90 - 110	P	03/12/2025	12:20	LB135011
	Sodium	26900	25000	107	90 - 110	P	03/12/2025	12:20	LB135011
CCV03	Iron	4740	5000	95	90 - 110	P	03/12/2025	13:10	LB135011
	Manganese	2340	2500	94	90 - 110	P	03/12/2025	13:10	LB135011
	Sodium	26200	25000	105	90 - 110	P	03/12/2025	13:10	LB135011
CCV04	Iron	4970	5000	100	90 - 110	P	03/12/2025	14:24	LB135011
	Manganese	2310	2500	92	90 - 110	P	03/12/2025	14:24	LB135011
	Sodium	26700	25000	107	90 - 110	P	03/12/2025	14:24	LB135011
CCV05	Iron	4840	5000	97	90 - 110	P	03/12/2025	15:25	LB135011
	Manganese	2270	2500	91	90 - 110	P	03/12/2025	15:25	LB135011
	Sodium	26000	25000	104	90 - 110	P	03/12/2025	15:25	LB135011
CCV06	Iron	4770	5000	96	90 - 110	P	03/12/2025	16:25	LB135011
	Manganese	2360	2500	94	90 - 110	P	03/12/2025	16:25	LB135011
	Sodium	25700	25000	103	90 - 110	P	03/12/2025	16:25	LB135011
CCV07	Iron	4870	5000	97	90 - 110	P	03/12/2025	17:25	LB135011
	Manganese	2250	2500	90	90 - 110	P	03/12/2025	17:25	LB135011
	Sodium	26900	25000	108	90 - 110	P	03/12/2025	17:25	LB135011
CCV08	Iron	4810	5000	96	90 - 110	P	03/12/2025	18:23	LB135011
	Manganese	2270	2500	91	90 - 110	P	03/12/2025	18:23	LB135011
	Sodium	25600	25000	102	90 - 110	P	03/12/2025	18:23	LB135011
CCV09	Iron	4960	5000	99	90 - 110	P	03/12/2025	18:49	LB135011
	Manganese	2270	2500	91	90 - 110	P	03/12/2025	18:49	LB135011
	Sodium	26300	25000	105	90 - 110	P	03/12/2025	18:49	LB135011

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: G Environmental **SDG No.:** Q1525
Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q1525 **SAS No.:** Q1525
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	Iron	9860	10000	99	90 - 110	P	03/13/2025	12:07	LB135035
	Manganese	542	520	104	90 - 110	P	03/13/2025	12:07	LB135035
	Sodium	10200	10000	102	90 - 110	P	03/13/2025	12:07	LB135035

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: G Environmental **SDG No.:** Q1525
Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q1525 **SAS No.:** Q1525
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	Iron	101	100	101	80 - 120	P	03/13/2025	12:13	LB135035
	Manganese	19.6	20.0	98	80 - 120	P	03/13/2025	12:13	LB135035
	Sodium	1740	2000	87	80 - 120	P	03/13/2025	12:13	LB135035



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Client:	<u>G Environmental</u>	SDG No.:	<u>Q1525</u>	
Contract:	<u>GENV01</u>	Lab Code:	<u>CHEM</u>	Case No.: <u>Q1525</u> SAS No.: <u>Q1525</u>
Initial Calibration Source:	<u>EPA</u>			
Continuing Calibration Source:	<u>Inorganic Ventures</u>			

Sample ID	Analyte	Result	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
		ug/L							
CCV01	Iron	4890	5000	98	90 - 110	P	03/13/2025	12:53	LB135035
	Manganese	2530	2500	101	90 - 110	P	03/13/2025	12:53	LB135035
	Sodium	24000	25000	96	90 - 110	P	03/13/2025	12:53	LB135035
CCV02	Iron	5130	5000	103	90 - 110	P	03/13/2025	13:49	LB135035
	Manganese	2580	2500	103	90 - 110	P	03/13/2025	13:49	LB135035
	Sodium	25600	25000	102	90 - 110	P	03/13/2025	13:49	LB135035
CCV03	Iron	4990	5000	100	90 - 110	P	03/13/2025	14:40	LB135035
	Manganese	2490	2500	100	90 - 110	P	03/13/2025	14:40	LB135035
	Sodium	24700	25000	99	90 - 110	P	03/13/2025	14:40	LB135035
CCV04	Iron	4780	5000	96	90 - 110	P	03/13/2025	15:38	LB135035
	Manganese	2440	2500	98	90 - 110	P	03/13/2025	15:38	LB135035
	Sodium	22900	25000	92	90 - 110	P	03/13/2025	15:38	LB135035
CCV05	Iron	5120	5000	102	90 - 110	P	03/13/2025	16:28	LB135035
	Manganese	2530	2500	101	90 - 110	P	03/13/2025	16:28	LB135035
	Sodium	24700	25000	99	90 - 110	P	03/13/2025	16:28	LB135035
CCV06	Iron	5040	5000	101	90 - 110	P	03/13/2025	17:21	LB135035
	Manganese	2510	2500	100	90 - 110	P	03/13/2025	17:21	LB135035
	Sodium	24100	25000	96	90 - 110	P	03/13/2025	17:21	LB135035
CCV07	Iron	5150	5000	103	90 - 110	P	03/13/2025	18:12	LB135035
	Manganese	2540	2500	102	90 - 110	P	03/13/2025	18:12	LB135035
	Sodium	24700	25000	99	90 - 110	P	03/13/2025	18:12	LB135035
CCV08	Iron	4880	5000	98	90 - 110	P	03/13/2025	18:53	LB135035
	Manganese	2440	2500	98	90 - 110	P	03/13/2025	18:53	LB135035
	Sodium	23400	25000	94	90 - 110	P	03/13/2025	18:53	LB135035
CCV09	Iron	5230	5000	105	90 - 110	P	03/13/2025	19:12	LB135035
	Manganese	2450	2500	98	90 - 110	P	03/13/2025	19:12	LB135035
	Sodium	23500	25000	94	90 - 110	P	03/13/2025	19:12	LB135035



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Metals

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CRDL STANDARD FOR AA & ICP

Client: G Environmental **SDG No.:** Q1525
Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q1525 **SAS No.:** Q1525
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
CRI01	Iron	98.7	100	99	40 - 160	P	03/12/2025	11:05	LB135011
	Manganese	19.2	20.0	96	40 - 160	P	03/12/2025	11:05	LB135011
	Sodium	2100	2000	105	40 - 160	P	03/12/2025	11:05	LB135011
CRI01	Iron	110	100	110	40 - 160	P	03/13/2025	12:21	LB135035
	Manganese	20.6	20.0	103	40 - 160	P	03/13/2025	12:21	LB135035
	Sodium	1830	2000	91	40 - 160	P	03/13/2025	12:21	LB135035

Metals
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INTERFERENCE CHECK SAMPLE

Client: G Environmental **SDG No.:** Q1525
Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q1525 **SAS No.:** Q1525
ICS Source: EPA **Instrument ID:** P4

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	Iron	104000	101000	103	85600	116500	03/12/2025	11:09	LB135011
	Manganese	2.80	7.0	40	-13	27	03/12/2025	11:09	LB135011
	Sodium	41.4			0	0	03/12/2025	11:09	LB135011
ICSAB01	Iron	102000	99300	103	84400	114500	03/12/2025	11:14	LB135011
	Manganese	451	507	89	430	584	03/12/2025	11:14	LB135011
	Sodium	43.6			0	0	03/12/2025	11:14	LB135011
ICSA01	Iron	103000	101000	102	85600	116500	03/13/2025	12:25	LB135035
	Manganese	3.77	7.0	54	-13	27	03/13/2025	12:25	LB135035
	Sodium	81.3			0	0	03/13/2025	12:25	LB135035
ICSAB01	Iron	100000	99300	101	84400	114500	03/13/2025	12:30	LB135035
	Manganese	476	507	94	430	584	03/13/2025	12:30	LB135035
	Sodium	93.6			0	0	03/13/2025	12:30	LB135035



METAL QC DATA

metals
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MATRIX SPIKE SUMMARY

client: <u>G Environmental</u>	level: <u>low</u>	sdg no.: <u>Q1525</u>
contract: <u>GENV01</u>	lab code: <u>CHEM</u>	case no.: <u>Q1525</u> sas no.: <u>Q1525</u>
matrix: <u>Water</u>	sample id: <u>Q1522-02</u>	client id: <u>TW-WTS-04MS</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>Q1522-02MS</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
Iron	ug/L	75 - 125	1510		120		1500	93		P
Manganese	ug/L	75 - 125	160		54.9		100	105		P
Sodium	ug/L	75 - 125	72800		76300		1500	-232		P

metals
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MATRIX SPIKE DUPLICATE SUMMARY

client:	G Environmental	level:	low	sdg no.:	Q1525		
contract:	GENV01	lab code:	CHEM	case no.:	Q1525	sas no.:	Q1525
matrix:	Water	sample id:	Q1522-02	client id:	TW-WTS-04MSD		
Percent Solids for Sample:	NA	Spiked ID:	Q1522-02MSD	Percent Solids for Spike Sample:	NA		

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Iron	ug/L	75 - 125	1570		120		1500	97		P
Manganese	ug/L	75 - 125	158		54.9		100	103		P
Sodium	ug/L	75 - 125	77600		76300		1500	87		P

Metals
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Client: G Environmental **SDG No.:** Q1525
Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q1525 **SAS No.:** Q1525
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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A
B
C
D
E
F
G
H
I
J

Metals

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DUPLICATE SAMPLE SUMMARY

Client:	<u>G Environmental</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q1525</u>
Contract:	<u>GENV01</u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>Q1525</u>
Matrix:	<u>Water</u>	Sample ID:	<u>Q1522-02</u>	Client ID:	<u>TW-WTS-04DUP</u>
Percent Solids for Sample:	NA	Duplicate ID	Q1522-02DUP	Percent Solids for Spike Sample:	NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Iron	ug/L	20	120		135		12		P
Manganese	ug/L	20	54.9		54.4		1		P
Sodium	ug/L	20	76300		76900		1		P

Metals

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DUPLICATE SAMPLE SUMMARY

Client:	<u>G Environmental</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q1525</u>
Contract:	<u>GENV01</u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>Q1525</u>
Matrix:	<u>Water</u>	Sample ID:	<u>Q1522-02MS</u>	Client ID:	<u>TW-WTS-04MSD</u>
Percent Solids for Sample:	NA	Duplicate ID	Q1522-02MSD	Percent Solids for Spike Sample:	NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Iron	ug/L	20	1510		1570		4		P
Manganese	ug/L	20	160		158		1		P
Sodium	ug/L	20	72800		77600		6		P

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: G Environmental

SDG No.: Q1525

Contract: GENV01

Lab Code: CHEM

Case No.: Q1525

SAS No.: Q1525

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB167038BS							
Iron	ug/L	1500	1450		97	80 - 120	P
Manganese	ug/L	100	92.4		92	80 - 120	P
Sodium	ug/L	1500	1520		101	80 - 120	P

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

TW-WTS-04L

Lab Name: Chemtech Consulting Group **Contract:** GENV01
Lab Code: CHEM **Lb No.:** lb135011 **Lab Sample ID :** Q1522-02L **SDG No.:** Q1525
Matrix (soil/water): Water **Level (low/med):** LOW
Concentration Units: ug/L

Analyte	Initial Sample Result (I) C		Serial Dilution Result (S) C		% Differ- ence	Q	M
Iron	120		126	J	5		P
Manganese	54.9		57.9		5		P
Sodium	76300		70700		7		P

metals
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ANALYSIS RUN LOG

Client: G Environmental **Contract:** GENV01

Lab code: CHEM **Case no.:** Q1525 **Sas no.:** Q1525 **Sdg no.:** Q1525

Instrument id number: **Method:** **Run number:** LB135011

Start date: 03/12/2025 **End date:** 03/12/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1027	Fe,Mn,Na
S1	S1	1	1031	Fe,Mn,Na
S2	S2	1	1035	Fe,Mn,Na
S3	S3	1	1039	Fe,Mn,Na
S4	S4	1	1044	Fe,Mn,Na
S5	S5	1	1048	Fe,Mn,Na
ICV01	ICV01	1	1052	Fe,Mn,Na
LLICV01	LLICV01	1	1056	Fe,Mn,Na
ICB01	ICB01	1	1101	Fe,Mn,Na
CRI01	CRI01	1	1105	Fe,Mn,Na
ICSA01	ICSA01	1	1109	Fe,Mn,Na
ICSAB01	ICSAB01	1	1114	Fe,Mn,Na
CCV01	CCV01	1	1129	Fe,Mn,Na
CCB01	CCB01	1	1134	Fe,Mn,Na
PB167038BL	PB167038BL	1	1155	Fe,Mn,Na
PB167038BS	PB167038BS	1	1159	Fe,Mn,Na
CCV02	CCV02	1	1220	Fe,Mn,Na
CCB02	CCB02	1	1224	Fe,Mn,Na
CCV03	CCV03	1	1310	Fe,Mn,Na
CCB03	CCB03	1	1314	Fe,Mn,Na
CCV04	CCV04	1	1424	Fe,Mn,Na
CCB04	CCB04	1	1428	Fe,Mn,Na
CCV05	CCV05	1	1525	Fe,Mn,Na
CCB05	CCB05	1	1529	Fe,Mn,Na
CCV06	CCV06	1	1625	Fe,Mn,Na
CCB06	CCB06	1	1630	Fe,Mn,Na
Q1522-02DUP	TW-WTS-04DUP	1	1711	Fe,Mn,Na
Q1522-02L	TW-WTS-04L	5	1716	Fe,Mn,Na
CCV07	CCV07	1	1725	Fe,Mn,Na
CCB07	CCB07	1	1730	Fe,Mn,Na
Q1522-02MS	TW-WTS-04MS	1	1735	Fe,Mn,Na
Q1522-02MSD	TW-WTS-04MSD	1	1739	Fe,Mn,Na
CCV08	CCV08	1	1823	Fe,Mn,Na
CCB08	CCB08	1	1827	Fe,Mn,Na
CCV09	CCV09	1	1849	Fe,Mn,Na
CCB09	CCB09	1	1853	Fe,Mn,Na

metals
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ANALYSIS RUN LOG

Client: G Environmental

Contract: GENV01

Lab code: CHEM **Case no.:** Q1525 **Sas no.:** Q1525

Sdg no.: Q1525

Instrument id number: **Method:**

Run number: LB135035

Start date: 03/13/2025 **End date:** 03/13/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1142	Fe,Mn,Na
S1	S1	1	1146	Fe,Mn,Na
S2	S2	1	1150	Fe,Mn,Na
S3	S3	1	1154	Fe,Mn,Na
S4	S4	1	1159	Fe,Mn,Na
S5	S5	1	1203	Fe,Mn,Na
ICV01	ICV01	1	1207	Fe,Mn,Na
LLICV01	LLICV01	1	1213	Fe,Mn,Na
ICB01	ICB01	1	1217	Fe,Mn,Na
CRI01	CRI01	1	1221	Fe,Mn,Na
ICSA01	ICSA01	1	1225	Fe,Mn,Na
ICSAB01	ICSAB01	1	1230	Fe,Mn,Na
CCV01	CCV01	1	1253	Fe,Mn,Na
CCB01	CCB01	1	1258	Fe,Mn,Na
CCV02	CCV02	1	1349	Fe,Mn,Na
CCB02	CCB02	1	1354	Fe,Mn,Na
CCV03	CCV03	1	1440	Fe,Mn,Na
CCB03	CCB03	1	1448	Fe,Mn,Na
CCV04	CCV04	1	1538	Fe,Mn,Na
CCB04	CCB04	1	1542	Fe,Mn,Na
Q1525-01	MW10	1	1608	Fe,Na
CCV05	CCV05	1	1628	Fe,Mn,Na
CCB05	CCB05	1	1632	Fe,Mn,Na
CCV06	CCV06	1	1721	Fe,Mn,Na
CCB06	CCB06	1	1725	Fe,Mn,Na
Q1525-01	MW10	5	1759	Mn
CCV07	CCV07	1	1812	Fe,Mn,Na
CCB07	CCB07	1	1835	Fe,Mn,Na
CCV08	CCV08	1	1853	Fe,Mn,Na
CCB08	CCB08	1	1903	Fe,Mn,Na
CCV09	CCV09	1	1912	Fe,Mn,Na
CCB09	CCB09	1	1921	Fe,Mn,Na



METAL PREPARATION & INSTRUMENT DATA

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: G Environmental

SDG No.: Q1525

Contract: GENV01

Lab Code: CHEM

Case No.: Q1525

SAS No.: Q1525

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
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Metals

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ICP INTERELEMEN CORRECTION FACTORS

Client: G Environmental

SDG No.: Q1525

Contract: GENV01

Lab Code: CHEM

Case No.: Q1525

SAS No.: Q1525

Instrument ID: _____

Date: _____

Interement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interement Correction Factors For:				
		As	Ba	Be	Cd	Co
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	-0.0039600
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Metals

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ICP INTERELEMEN CORRECTION FACTORS

Client: G Environmental

SDG No.: Q1525

Contract: GENV01

Lab Code: CHEM

Case No.: Q1525

SAS No.: Q1525

Instrument ID: _____

Date: _____

Interement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interement Correction Factors For:				
		Cr	Cu	K	Mn	Mo
Iron	240.488	0.0000000	0.0000000	0.0000730	0.0000000	-0.0015250
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Metals

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ICP INTERELEMEN CORRECTION FACTORS

Client: G Environmental

SDG No.: Q1525

Contract: GENV01

Lab Code: CHEM

Case No.: Q1525

SAS No.: Q1525

Instrument ID: _____

Date: _____

Interement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interement Correction Factors For:				
		Na	Ni	Pb	Sb	Se
Iron	240.488	0.0000000	-0.0017000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: G Environmental

SDG No.: Q1525

Contract: GENV01

Lab Code: CHEM

Case No.: Q1525

SAS No.: Q1525

Instrument ID: _____

Date: _____

Interement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interement Correction Factors For:				
		Sn	Ti	Tl	V	Zn
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000



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

LAB CHRONICLE

OrderID:	Q1525	OrderDate:	3/7/2025 11:17:00 AM
Client:	G Environmental	Project:	DPW
Contact:	Gary Landis	Location:	I31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1525-01	MW10	Water	Metals Group3	6010D	03/06/25	03/10/25	03/13/25	03/07/25



METAL PREPARATION & ANALYICAL SUMMARY

Metals
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SAMPLE PREPARATION SUMMARY

Client:	<u>G Environmental</u>	SDG No.:	<u>Q1525</u>
Contract:	<u>GENV01</u>	Lab Code:	<u>CHEM</u>
		Method:	<u></u>
		Case No.:	<u>Q1525</u>
		SAS No.:	<u>Q1525</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB167038							
PB167038BL	PB167038BL	MB	WATER	03/10/2025	50.0	25.0	
PB167038BS	PB167038BS	LCS	WATER	03/10/2025	50.0	25.0	
Q1522-02DUP	TW-WTS-04DUP	DUP	WATER	03/10/2025	50.0	25.0	
Q1522-02MS	TW-WTS-04MS	MS	WATER	03/10/2025	50.0	25.0	
Q1522-02MSD	TW-WTS-04MSD	MSD	WATER	03/10/2025	50.0	25.0	
Q1525-01	MW10	SAM	WATER	03/10/2025	50.0	25.0	

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135011

Review By	kareem	Review On	3/13/2025 10:36:08 AM
Supervise By	jaswal	Supervise On	3/14/2025 1:32:25 PM
STD. NAME	STD REF.#		
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84846		
ICV Standard	MP84643		
CCV Standard	MP84646		
ICSA Standard	MP84644,MP84721		
CRI Standard	MP84846		
LCS Standard			
Chk Standard	MP84649,MP84650		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	03/12/25 10:27		Kareem	OK
2	S1	S1	CAL2	03/12/25 10:31		Kareem	OK
3	S2	S2	CAL3	03/12/25 10:35		Kareem	OK
4	S3	S3	CAL4	03/12/25 10:39		Kareem	OK
5	S4	S4	CAL5	03/12/25 10:44		Kareem	OK
6	S5	S5	CAL6	03/12/25 10:48		Kareem	OK
7	ICV01	ICV01	ICV	03/12/25 10:52	ICV As,Be,Tl,Zn (200.7)	Kareem	OK
8	LLICV01	LLICV01	LLICV	03/12/25 10:56		Kareem	OK
9	ICB01	ICB01	ICB	03/12/25 11:01		Kareem	OK
10	CRI01	CRI01	CRDL	03/12/25 11:05		Kareem	OK
11	ICSA01	ICSA01	ICSA	03/12/25 11:09		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	03/12/25 11:14		Kareem	OK
13	ICSADL	ICSADL	ICSA	03/12/25 11:21		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	03/12/25 11:25		Kareem	OK
15	CCV01	CCV01	CCV	03/12/25 11:29		Kareem	OK
16	CCB01	CCB01	CCB	03/12/25 11:34		Kareem	OK
17	PB167037BL	PB167037BL	MB	03/12/25 11:38		Kareem	OK
18	PB167037BS	PB167037BS	LCS	03/12/25 11:42	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135011

Review By	kareem	Review On	3/13/2025 10:36:08 AM
Supervise By	jaswal	Supervise On	3/14/2025 1:32:25 PM
STD. NAME	STD REF.#		
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84846		
ICV Standard	MP84643		
CCV Standard	MP84646		
ICSA Standard	MP84644,MP84721		
CRI Standard	MP84846		
LCS Standard			
Chk Standard	MP84649,MP84650		

19	PB166981BL	PB166981BL	MB	03/12/25 11:46		Kareem	OK
20	PB166981BS	PB166981BS	LCS	03/12/25 11:51	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
21	PB167038BL	PB167038BL	MB	03/12/25 11:55		Kareem	OK
22	PB167038BS	PB167038BS	LCS	03/12/25 11:59	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
23	PB167024BL	PB167024BL	MB	03/12/25 12:03		Kareem	OK
24	PB167024BS	PB167024BS	LCS	03/12/25 12:07	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
25	PB167100BL	PB167100BL	MB	03/12/25 12:11		Kareem	OK
26	PB167100BS	PB167100BS	LCS	03/12/25 12:16	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
27	CCV02	CCV02	CCV	03/12/25 12:20		Kareem	OK
28	CCB02	CCB02	CCB	03/12/25 12:24		Kareem	OK
29	PB166977BL	PB166977BL	MB	03/12/25 12:28		Kareem	OK
30	PB166977BS	PB166977BS	LCS	03/12/25 12:33	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
31	PB166963BL	PB166963BL	MB	03/12/25 12:37	Ba fail LCS	Kareem	Not Ok
32	PB166963BS	PB166963BS	LCS	03/12/25 12:41	Ba fail LCS	Kareem	Not Ok
33	Q1466-05	CITY WATER	SAM	03/12/25 12:49		Kareem	OK
34	Q1466-05DUP	CITY WATERDUP	DUP	03/12/25 12:53		Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135011

Review By	kareem	Review On	3/13/2025 10:36:08 AM
Supervise By	jaswal	Supervise On	3/14/2025 1:32:25 PM
STD. NAME	STD REF.#		
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84846		
ICV Standard	MP84643		
CCV Standard	MP84646		
ICSA Standard	MP84644,MP84721		
CRI Standard	MP84846		
LCS Standard			
Chk Standard	MP84649,MP84650		

35	Q1466-05L	CITY WATERL	SD	03/12/25 12:58		Kareem	OK
36	Q1466-05MS	CITY WATERMS	MS	03/12/25 13:02	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
37	Q1466-05MSD	CITY WATERMSD	MSD	03/12/25 13:06	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
38	CCV03	CCV03	CCV	03/12/25 13:10		Kareem	OK
39	CCB03	CCB03	CCB	03/12/25 13:14		Kareem	OK
40	Q1466-05A	CITY WATERA	PS	03/12/25 13:18	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
41	Q1507-01	50-MIDDLESEX-AVE	SAM	03/12/25 13:22		Kareem	OK
42	Q1508-01	RBR251372	SAM	03/12/25 13:27		Kareem	OK
43	Q1510-01	FMC-25-0001-0005	SAM	03/12/25 13:31		Kareem	OK
44	PB167098BL	PB167098BL	MB	03/12/25 13:59		Kareem	OK
45	PB167098BS	PB167098BS	LCS	03/12/25 14:03	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
46	PB167099BL	PB167099BL	MB	03/12/25 14:07		Kareem	OK
47	PB167099BS	PB167099BS	LCS	03/12/25 14:12	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
48	Q1515-01	AU-06-030625	SAM	03/12/25 14:16		Kareem	OK
49	Q1515-01DUP	AU-06-030625DUP	DUP	03/12/25 14:20		Kareem	OK
50	CCV04	CCV04	CCV	03/12/25 14:24		Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135011

Review By	kareem	Review On	3/13/2025 10:36:08 AM
Supervise By	jaswal	Supervise On	3/14/2025 1:32:25 PM
STD. NAME	STD REF.#		
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84846		
ICV Standard	MP84643		
CCV Standard	MP84646		
ICSA Standard	MP84644,MP84721		
CRI Standard	MP84846		
LCS Standard			
Chk Standard	MP84649,MP84650		

51	CCB04	CCB04	CCB	03/12/25 14:28		Kareem	OK
52	Q1540-01	OU4-CF-15R-031025	SAM	03/12/25 14:32		Kareem	OK
53	Q1540-01DUP	OU4-CF-15R-031025	DUP	03/12/25 14:37		Kareem	OK
54	Q1540-01L	OU4-CF-15R-031025	SD	03/12/25 14:41		Kareem	OK
55	Q1540-01A	OU4-CF-15R-031025	PS	03/12/25 14:58	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
56	PB167088TB	PB167088TB	MB	03/12/25 15:02		Kareem	OK
57	Q1545-01	BU-02-031125	SAM	03/12/25 15:06		Kareem	OK
58	Q1545-01DUP	BU-02-031125DUP	DUP	03/12/25 15:11		Kareem	OK
59	Q1545-01L	BU-02-031125L	SD	03/12/25 15:15		Kareem	OK
60	CCV05	CCV05	CCV	03/12/25 15:25		Kareem	OK
61	CCB05	CCB05	CCB	03/12/25 15:29		Kareem	OK
62	Q1545-01MS	BU-02-031125MS	MS	03/12/25 15:33	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
63	Q1545-01MSD	BU-02-031125MSD	MSD	03/12/25 15:37	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
64	Q1545-01A	BU-02-031125A	PS	03/12/25 15:41	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
65	Q1547-01	OR-620-JB-COMP-01	SAM	03/12/25 15:45		Kareem	OK
66	Q1547-06	OR-620-JB-COMP-02	SAM	03/12/25 15:49		Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135011

Review By	kareem	Review On	3/13/2025 10:36:08 AM
Supervise By	jaswal	Supervise On	3/14/2025 1:32:25 PM
STD. NAME	STD REF.#		
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84846		
ICV Standard	MP84643		
CCV Standard	MP84646		
ICSA Standard	MP84644,MP84721		
CRI Standard	MP84846		
LCS Standard			
Chk Standard	MP84649,MP84650		

67	Q1549-01	72-11978	SAM	03/12/25 15:54		Kareem	OK
68	Q1515-01L	AU-06-030625L	SD	03/12/25 15:58		Kareem	OK
69	Q1515-01MS	AU-06-030625MS	MS	03/12/25 16:02	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
70	Q1515-01MSD	AU-06-030625MSD	MSD	03/12/25 16:06	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
71	Q1515-01A	AU-06-030625A	PS	03/12/25 16:10	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
72	CCV06	CCV06	CCV	03/12/25 16:25		Kareem	OK
73	CCB06	CCB06	CCB	03/12/25 16:30		Kareem	OK
74	Q1540-01MS	OU4-CF-15R-031025	MS	03/12/25 16:34	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
75	Q1540-01MSD	OU4-CF-15R-031025	MSD	03/12/25 16:38	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
76	Q1516-03	GAS-AUD-25-0026	SAM	03/12/25 16:42		Kareem	OK
77	Q1519-01	WATER TREATMENT	SAM	03/12/25 16:47		Kareem	OK
78	LR1	LR1	HIGH STD	03/12/25 16:53		Kareem	OK
79	LR2	LR2	HIGH STD	03/12/25 16:58		Kareem	OK
80	Q1517-01DL	MOO-25-0062DL	SAM	03/12/25 17:02		Kareem	OK
81	Q1522-02	TW-WTS-04	SAM	03/12/25 17:07		Kareem	OK
82	Q1522-02DUP	TW-WTS-04DUP	DUP	03/12/25 17:11		Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135011

Review By	kareem	Review On	3/13/2025 10:36:08 AM
Supervise By	jaswal	Supervise On	3/14/2025 1:32:25 PM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84846
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84846
LCS Standard	
Chk Standard	MP84649,MP84650

83	Q1522-02L	TW-WTS-04L	SD	03/12/25 17:16		Kareem	OK
84	CCV07	CCV07	CCV	03/12/25 17:25		Kareem	OK
85	CCB07	CCB07	CCB	03/12/25 17:30		Kareem	OK
86	Q1522-02MS	TW-WTS-04MS	MS	03/12/25 17:35	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
87	Q1522-02MSD	TW-WTS-04MSD	MSD	03/12/25 17:39	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
88	Q1522-02A	TW-WTS-04A	PS	03/12/25 17:43	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
89	Q1478-07	IDW-AQ-IW-03-COMF	SAM	03/12/25 17:47		Kareem	OK
90	Q1478-07DUP	IDW-AQ-IW-03-COMF	DUP	03/12/25 17:52		Kareem	OK
91	Q1478-07L	IDW-AQ-IW-03-COMF	SD	03/12/25 17:56		Kareem	OK
92	Q1478-07MS	IDW-AQ-IW-03-COMF	MS	03/12/25 18:00	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
93	Q1478-07MSD	IDW-AQ-IW-03-COMF	MSD	03/12/25 18:05	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
94	Q1478-07A	IDW-AQ-IW-03-COMF	PS	03/12/25 18:09	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
95	Q1478-01	IDW-AQ-MW-19B-CO	SAM	03/12/25 18:13		Kareem	OK
96	CCV08	CCV08	CCV	03/12/25 18:23		Kareem	OK
97	CCB08	CCB08	CCB	03/12/25 18:27		Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135011

Review By	kareem	Review On	3/13/2025 10:36:08 AM
Supervise By	jaswal	Supervise On	3/14/2025 1:32:25 PM
STD. NAME	STD REF.#		
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84846		
ICV Standard	MP84643		
CCV Standard	MP84646		
ICSA Standard	MP84644,MP84721		
CRI Standard	MP84846		
LCS Standard			
Chk Standard	MP84649,MP84650		

98	Q1478-03	IDW-AQ-IW-01-COMF	SAM	03/12/25 18:31		Kareem	OK
99	Q1478-05	IDW-AQ-IW-02-COMF	SAM	03/12/25 18:36		Kareem	OK
100	Q1477-01	RW7-SP100-2025022	SAM	03/12/25 18:40		Kareem	OK
101	Q1477-04	RW7-SP303-2025022	SAM	03/12/25 18:44		Kareem	OK
102	CCV09	CCV09	CCV	03/12/25 18:49		Kareem	OK
103	CCB09	CCB09	CCB	03/12/25 18:53		Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135035

Review By	jaswal	Review On	3/14/2025 1:24:23 PM
Supervise By	Mohan	Supervise On	3/14/2025 1:33:41 PM
STD. NAME	STD REF.#		
ICAL Standard	MP84636,MP84846,MP84640,MP84639,MP84638,MP84637		
ICV Standard	MP84643		
CCV Standard	MP84646		
ICSA Standard	MP84644,MP84721		
CRI Standard	MP84640		
LCS Standard			
Chk Standard	MP84649,MP84650		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	03/13/25 11:42		Kareem	OK
2	S1	S1	CAL2	03/13/25 11:46		Kareem	OK
3	S2	S2	CAL3	03/13/25 11:50		Kareem	OK
4	S3	S3	CAL4	03/13/25 11:54		Kareem	OK
5	S4	S4	CAL5	03/13/25 11:59		Kareem	OK
6	S5	S5	CAL6	03/13/25 12:03		Kareem	OK
7	ICV01	ICV01	ICV	03/13/25 12:07		Kareem	OK
8	LLICV01	LLICV01	LLICV	03/13/25 12:13		Kareem	OK
9	ICB01	ICB01	ICB	03/13/25 12:17		Kareem	OK
10	CRI01	CRI01	CRDL	03/13/25 12:21		Kareem	OK
11	ICSA01	ICSA01	ICSA	03/13/25 12:25		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	03/13/25 12:30		Kareem	OK
13	ICSADL	ICSADL	ICSA	03/13/25 12:34		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	03/13/25 12:38		Kareem	OK
15	CCV01	CCV01	CCV	03/13/25 12:53		Kareem	OK
16	CCB01	CCB01	CCB	03/13/25 12:58		Kareem	OK
17	PB166963BL	PB166963BL	MB	03/13/25 13:02		Kareem	OK
18	PB166963BS	PB166963BS	LCS	03/13/25 13:06		Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135035

Review By	jaswal	Review On	3/14/2025 1:24:23 PM
Supervise By	Mohan	Supervise On	3/14/2025 1:33:41 PM
STD. NAME	STD REF.#		
ICAL Standard	MP84636,MP84846,MP84640,MP84639,MP84638,MP84637		
ICV Standard	MP84643		
CCV Standard	MP84646		
ICSA Standard	MP84644,MP84721		
CRI Standard	MP84640		
LCS Standard			
Chk Standard	MP84649,MP84650		

19	PB167116BL	PB167116BL	MB	03/13/25 13:10		Kareem	OK
20	PB167116BS	PB167116BS	LCS	03/13/25 13:15		Kareem	OK
21	Q1485-01	DN-B-41	SAM	03/13/25 13:19		Kareem	OK
22	Q1486-01	DN-B-40	SAM	03/13/25 13:23		Kareem	OK
23	Q1487-01	DN-B-42	SAM	03/13/25 13:27		Kareem	OK
24	Q1488-04	ENV-101-SB02	SAM	03/13/25 13:31		Kareem	OK
25	Q1488-06	ENV-102-SB01	SAM	03/13/25 13:35		Kareem	OK
26	Q1488-08	ENV-102-SB02	SAM	03/13/25 13:40		Kareem	OK
27	CCV02	CCV02	CCV	03/13/25 13:49		Kareem	OK
28	CCB02	CCB02	CCB	03/13/25 13:54		Kareem	OK
29	Q1488-10	ENV-104-SB01	SAM	03/13/25 13:58		Kareem	OK
30	Q1488-12	ENV-104-SB02	SAM	03/13/25 14:02		Kareem	OK
31	Q1488-14	ENV-104-GW01	SAM	03/13/25 14:07		Kareem	OK
32	Q1488-01	ENV-101-SB01	SAM	03/13/25 14:11		Kareem	OK
33	Q1488-03	ENV-101-SB02	SAM	03/13/25 14:15		Kareem	OK
34	Q1488-05	ENV-102-SB01	SAM	03/13/25 14:19		Kareem	OK
35	Q1488-07	ENV-102-SB02	SAM	03/13/25 14:23		Kareem	OK
36	Q1488-09	ENV-104-SB01	SAM	03/13/25 14:27		Kareem	OK
37	Q1488-11	ENV-104-SB02	SAM	03/13/25 14:31		Kareem	OK
38	Q1491-02	COMP	SAM	03/13/25 14:35		Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135035

Review By	jaswal	Review On	3/14/2025 1:24:23 PM
Supervise By	Mohan	Supervise On	3/14/2025 1:33:41 PM
STD. NAME	STD REF.#		
ICAL Standard	MP84636,MP84846,MP84640,MP84639,MP84638,MP84637		
ICV Standard	MP84643		
CCV Standard	MP84646		
ICSA Standard	MP84644,MP84721		
CRI Standard	MP84640		
LCS Standard			
Chk Standard	MP84649,MP84650		

39	CCV03	CCV03	CCV	03/13/25 14:40		Kareem	OK
40	CCB03	CCB03	CCB	03/13/25 14:48		Kareem	OK
41	Q1495-01	001-WILLETS-PT-BL	SAM	03/13/25 14:53		Kareem	OK
42	Q1495-02	002-35TH-AVE(MAR)	SAM	03/13/25 14:57		Kareem	OK
43	Q1514-02	ENV-105-SB01	SAM	03/13/25 15:01		Kareem	OK
44	Q1514-04	ENV-105-SB02	SAM	03/13/25 15:06		Kareem	OK
45	Q1514-06	ENV-103-SB01	SAM	03/13/25 15:10		Kareem	OK
46	Q1514-06DUP	ENV-103-SB01DUP	DUP	03/13/25 15:15		Kareem	OK
47	Q1514-06L	ENV-103-SB01L	SD	03/13/25 15:19		Kareem	OK
48	Q1514-06MS	ENV-103-SB01MS	MS	03/13/25 15:23		Kareem	OK
49	Q1514-06MSD	ENV-103-SB01MSD	MSD	03/13/25 15:28		Kareem	OK
50	Q1514-06A	ENV-103-SB01A	PS	03/13/25 15:34		Kareem	OK
51	CCV04	CCV04	CCV	03/13/25 15:38		Kareem	OK
52	CCB04	CCB04	CCB	03/13/25 15:42		Kareem	OK
53	Q1514-08	ENV-103-GW01	SAM	03/13/25 15:46		Kareem	OK
54	Q1514-09	FB03062025	SAM	03/13/25 15:51		Kareem	OK
55	Q1514-01	ENV-105-SB01	SAM	03/13/25 15:55		Kareem	OK
56	Q1514-03	ENV-105-SB02	SAM	03/13/25 15:59		Kareem	OK
57	Q1514-05	ENV-103-SB01	SAM	03/13/25 16:03		Kareem	OK
58	Q1525-01	MW10	SAM	03/13/25 16:08	Mn high	Kareem	Dilution

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135035

Review By	jaswal	Review On	3/14/2025 1:24:23 PM
Supervise By	Mohan	Supervise On	3/14/2025 1:33:41 PM
STD. NAME	STD REF.#		
ICAL Standard	MP84636,MP84846,MP84640,MP84639,MP84638,MP84637		
ICV Standard	MP84643		
CCV Standard	MP84646		
ICSA Standard	MP84644,MP84721		
CRI Standard	MP84640		
LCS Standard			
Chk Standard	MP84649,MP84650		

59	Q1552-01	NB-418-JB-COMP-01	SAM	03/13/25 16:12		Kareem	OK
60	Q1553-01	RT2321	SAM	03/13/25 16:16		Kareem	OK
61	Q1556-01	OR-02-031225	SAM	03/13/25 16:20	MS,MSD fail for many parameters	Kareem	Not Ok
62	Q1556-01DUP	OR-02-031225DUP	DUP	03/13/25 16:24	MS,MSD fail for many parameters	Kareem	Not Ok
63	CCV05	CCV05	CCV	03/13/25 16:28		Kareem	OK
64	CCB05	CCB05	CCB	03/13/25 16:32		Kareem	OK
65	Q1556-01L	OR-02-031225L	SD	03/13/25 16:37	MS,MSD fail for many parameters	Kareem	Not Ok
66	Q1556-01MS	OR-02-031225MS	MS	03/13/25 16:41	Fail for many parameters	Kareem	Not Ok
67	Q1556-01MSD	OR-02-031225MSD	MSD	03/13/25 16:45	Fail for many parameters	Kareem	Not Ok
68	Q1556-01A	OR-02-031225A	PS	03/13/25 16:49	MS,MSD fail for many parameters	Kareem	Not Ok
69	LR1	LR1	HIGH STD	03/13/25 16:53		Kareem	OK
70	LR2	LR2	HIGH STD	03/13/25 16:58		Kareem	OK
71	PB167103TB	PB167103TB	MB	03/13/25 17:04		Kareem	OK
72	Q1547-05	OR-620-JB-COMP-01	SAM	03/13/25 17:08		Kareem	OK
73	Q1547-05DUP	OR-620-JB-COMP-01	DUP	03/13/25 17:13		Kareem	OK
74	Q1547-05L	OR-620-JB-COMP-01	SD	03/13/25 17:17		Kareem	OK
75	CCV06	CCV06	CCV	03/13/25 17:21		Kareem	OK
76	CCB06	CCB06	CCB	03/13/25 17:25		Kareem	OK
77	Q1547-05MS	OR-620-JB-COMP-01	MS	03/13/25 17:30		Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135035

Review By	jaswal	Review On	3/14/2025 1:24:23 PM
Supervise By	Mohan	Supervise On	3/14/2025 1:33:41 PM
STD. NAME	STD REF.#		
ICAL Standard	MP84636,MP84846,MP84640,MP84639,MP84638,MP84637		
ICV Standard	MP84643		
CCV Standard	MP84646		
ICSA Standard	MP84644,MP84721		
CRI Standard	MP84640		
LCS Standard			
Chk Standard	MP84649,MP84650		

78	Q1547-05MSD	OR-620-JB-COMP-01	MSD	03/13/25 17:34		Kareem	OK
79	Q1547-05A	OR-620-JB-COMP-01	PS	03/13/25 17:38		Kareem	OK
80	Q1547-10	OR-620-JB-COMP-02	SAM	03/13/25 17:42		Kareem	OK
81	Q1552-05	NB-418-JB-COMP-01	SAM	03/13/25 17:47		Kareem	OK
82	PB167117BL	PB167117BL	MB	03/13/25 17:51		Kareem	OK
83	PB167117BS	PB167117BS	LCS	03/13/25 17:55		Kareem	OK
84	Q1525-01DL	MW10DL	SAM	03/13/25 17:59	5X for Mn	Kareem	Confirms
85	Q1488-13DL	ENV-102-GW01DL	SAM	03/13/25 18:04	10X for Ag	Kareem	Confirms
86	Q1514-07DL	ENV-105-GW01DL	SAM	03/13/25 18:08	10X for Ca,Ag,Fe	Kareem	Confirms
87	CCV07	CCV07	CCV	03/13/25 18:12		Kareem	OK
88	CCB07	CCB07	CCB	03/13/25 18:35		Kareem	OK
89	Q1488-13	ENV-102-GW01	SAM	03/13/25 18:39	Ag oversaturated	Kareem	Dilution
90	Q1514-07	ENV-105-GW01	SAM	03/13/25 18:44	Ag oversaturated,Ca,Fe high	Kareem	Dilution
91	Q1488-13REDL	ENV-102-GW01RE	SAM	03/13/25 18:49	Not used	Kareem	Not Ok
92	CCV08	CCV08	CCV	03/13/25 18:53		Kareem	OK
93	CCB08	CCB08	CCB	03/13/25 19:03		Kareem	OK
94	Q1528-02	22725	SAM	03/13/25 19:07		Kareem	OK
95	CCV09	CCV09	CCV	03/13/25 19:12		Kareem	OK
96	CCB09	CCB09	CCB	03/13/25 19:21		Kareem	OK

SOP ID : M3010A-Digestion-17

SDG No : N/A

Matrix : WATER

Pipette ID: ICP A

Balance ID : N/A

Filter paper ID : N/A

pH Strip ID : M6069

Hood ID : #3

Block ID: 1. HOT BLOCK #1 2. N/A

Start Digest Date: 03/10/2025 Time : 08:55 Temp : 96 °C

End Digest Date: 03/10/2025 Time : 12:05 Temp : 96 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature:

Supervisor Signature:

Temp : 1. 96°C 2. N/A

Standard Name	MLS USED	STD REF. # FROM LOG
LFS-1	0.25	M6003
LFS-1	0.25	M6011
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Conc. HNO3	3.00	M6126
1:1 HCL	5.00	MP84720
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK # 1 CELL 55 Temp :96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
03/10/25 13:05	SPD. met-dig.	SPD. met-dig.
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
PB167038BL	PBW038	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	1
PB167038BS	LCS038	<2	50	25	Colorless	Colorless	Clear	Clear	M6003,M6011	2
Q1514-07	ENV-105-GW01	<2	50	25	Brown	Brown	Cloudy	Clear	N/A	3
Q1514-08	ENV-103-GW01	<2	50	25	Brown	Brown	Cloudy	Clear	N/A	4
Q1514-09	FB03062025	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	5
Q1516-03	GAS-AUD-25-0026	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	6
Q1517-01	MOO-25-0062	<2	50	25	Pink	Pink	Clear	Clear	N/A	7
Q1519-01	WATER TREATMENT DISCHARGE	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	8
Q1522-02	TW-WTS-04	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	9
Q1522-02MS	TW-WTS-04MS	<2	50	25	Colorless	Colorless	Clear	Clear	M6003,M6011	11
Q1522-02MSD	TW-WTS-04MSD	<2	50	25	Colorless	Colorless	Clear	Clear	M6003,M6011	12
Q1522-02DUP	TW-WTS-04DUP	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	10
Q1525-01	MW10	<2	50	25	Light Brown	Colorless	Cloudy	Clear	N/A	13