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Hit Summary Sheet
SW-846

SDG No.: Q2334 **Order ID:** Q2334

Client: G Environmental **Project ID:** Buff

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : MW3								
Q2334-01	MW3	Water	Iron	2430		11.7	50.0	ug/L
Q2334-01	MW3	Water	Manganese	530		2.97	10.0	ug/L
Q2334-01	MW3	Water	Sodium	9770		434	1000	ug/L
Client ID : MW4								
Q2334-02	MW4	Water	Iron	6700		11.7	50.0	ug/L
Q2334-02	MW4	Water	Manganese	426		2.97	10.0	ug/L
Q2334-02	MW4	Water	Sodium	21600		434	1000	ug/L
Client ID : GBTW1								
Q2334-03	GBTW1	Water	Iron	316000	D	58.5	250	ug/L
Q2334-03	GBTW1	Water	Manganese	11200	D	14.9	50.0	ug/L
Q2334-03	GBTW1	Water	Sodium	24500	D	2170	5000	ug/L

SAMPLE DATA

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Report of Analysis

Client:	G Environmental	Date Collected:	06/12/25
Project:	Buff	Date Received:	06/13/25
Client Sample ID:	MW3	SDG No.:	Q2334
Lab Sample ID:	Q2334-01	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	2430		1	11.7	50.0	ug/L	06/16/25 10:15	06/17/25 17:50	6010D	SW3010
7439-96-5	Manganese	530		1	2.97	10.0	ug/L	06/16/25 10:15	06/17/25 17:50	6010D	SW3010
7440-23-5	Sodium	9770		1	434	1000	ug/L	06/16/25 10:15	06/17/25 17:50	6010D	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group4				

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

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	G Environmental	Date Collected:	06/12/25
Project:	Buff	Date Received:	06/13/25
Client Sample ID:	MW4	SDG No.:	Q2334
Lab Sample ID:	Q2334-02	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	6700		1	11.7	50.0	ug/L	06/16/25 10:15	06/17/25 18:16	6010D	SW3010
7439-96-5	Manganese	426		1	2.97	10.0	ug/L	06/16/25 10:15	06/17/25 18:16	6010D	SW3010
7440-23-5	Sodium	21600		1	434	1000	ug/L	06/16/25 10:15	06/17/25 18:16	6010D	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group4				

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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Report of Analysis

Client:	G Environmental	Date Collected:	06/12/25
Project:	Buff	Date Received:	06/13/25
Client Sample ID:	GBTW1	SDG No.:	Q2334
Lab Sample ID:	Q2334-03	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	316000	D	5	58.5	250	ug/L	06/16/25 10:15	06/17/25 18:25	6010D	SW3010
7439-96-5	Manganese	11200	D	5	14.9	50.0	ug/L	06/16/25 10:15	06/17/25 18:25	6010D	SW3010
7440-23-5	Sodium	24500	D	5	2170	5000	ug/L	06/16/25 10:15	06/17/25 18:25	6010D	SW3010

Color Before:	Brown	Clarity Before:	Cloudy	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group4				

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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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: G Environmental **SDG No.:** Q2334

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2334 **SAS No.:** Q2334

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Iron	38.5	+/-50	J	100	P	06/17/2025	12:46	LB136187
	Manganese	5.94	+/-10	U	20.0	P	06/17/2025	12:46	LB136187
	Sodium	868	+/-1000	U	2000	P	06/17/2025	12:46	LB136187

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: G Environmental **SDG No.:** Q2334

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2334 **SAS No.:** Q2334

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Iron	23.4	+/-50	U	100	P	06/17/2025	13:48	LB136187
	Manganese	5.94	+/-10	U	20.0	P	06/17/2025	13:48	LB136187
	Sodium	868	+/-1000	U	2000	P	06/17/2025	13:48	LB136187
CCB02	Iron	23.4	+/-50	U	100	P	06/17/2025	14:50	LB136187
	Manganese	5.94	+/-10	U	20.0	P	06/17/2025	14:50	LB136187
	Sodium	868	+/-1000	U	2000	P	06/17/2025	14:50	LB136187
CCB03	Iron	27.5	+/-50	J	100	P	06/17/2025	15:42	LB136187
	Manganese	5.94	+/-10	U	20.0	P	06/17/2025	15:42	LB136187
	Sodium	868	+/-1000	U	2000	P	06/17/2025	15:42	LB136187
CCB04	Iron	23.4	+/-50	U	100	P	06/17/2025	16:34	LB136187
	Manganese	5.94	+/-10	U	20.0	P	06/17/2025	16:34	LB136187
	Sodium	868	+/-1000	U	2000	P	06/17/2025	16:34	LB136187
CCB05	Iron	23.4	+/-50	U	100	P	06/17/2025	17:41	LB136187
	Manganese	5.94	+/-10	U	20.0	P	06/17/2025	17:41	LB136187
	Sodium	868	+/-1000	U	2000	P	06/17/2025	17:41	LB136187
CCB06	Iron	23.4	+/-50	U	100	P	06/17/2025	18:42	LB136187
	Manganese	5.94	+/-10	U	20.0	P	06/17/2025	18:42	LB136187
	Sodium	868	+/-1000	U	2000	P	06/17/2025	18:42	LB136187
CCB07	Iron	27.8	+/-50	J	100	P	06/17/2025	19:30	LB136187
	Manganese	5.94	+/-10	U	20.0	P	06/17/2025	19:30	LB136187
	Sodium	868	+/-1000	U	2000	P	06/17/2025	19:30	LB136187
CCB08	Iron	41.7	+/-50	J	100	P	06/17/2025	20:22	LB136187
	Manganese	9.42	+/-10	J	20.0	P	06/17/2025	20:22	LB136187
	Sodium	868	+/-1000	U	2000	P	06/17/2025	20:22	LB136187

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Metals
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PREPARATION BLANK SUMMARY

Client: G Environmental **SDG No.:** Q2334

Instrument: P5

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB168490BL		**WATER**		**Batch Number:**	**PB168490**		**Prep Date:**	**06/16/2025**	
	Iron	11.7	<25	U	50.0	P	06/17/2025	17:19	LB136187
	Manganese	2.97	<5	U	10.0	P	06/17/2025	17:19	LB136187
	Sodium	434	<500	U	1000	P	06/17/2025	17:19	LB136187

METAL CALIBRATION DATA

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: G Environmental **SDG No.:** Q2334

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2334 **SAS No.:** Q2334

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	3960	4000	99	90 - 110	P	06/17/2025	12:25	LB136187
	Manganese	2010	2000	100	90 - 110	P	06/17/2025	12:25	LB136187
	Sodium	20700	20000	104	90 - 110	P	06/17/2025	12:25	LB136187

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: G Environmental **SDG No.:** Q2334

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2334 **SAS No.:** Q2334

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	110	100	110	80 - 120	P	06/17/2025	12:41	LB136187
	Manganese	21.1	20.0	105	80 - 120	P	06/17/2025	12:41	LB136187
	Sodium	1840	2000	92	80 - 120	P	06/17/2025	12:41	LB136187

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: G Environmental **SDG No.:** Q2334

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2334 **SAS No.:** Q2334

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	4850	5000	97	90 - 110	P	06/17/2025	13:40	LB136187
	Manganese	2430	2500	97	90 - 110	P	06/17/2025	13:40	LB136187
	Sodium	24800	25000	99	90 - 110	P	06/17/2025	13:40	LB136187
CCV02	Iron	4990	5000	100	90 - 110	P	06/17/2025	14:43	LB136187
	Manganese	2490	2500	99	90 - 110	P	06/17/2025	14:43	LB136187
	Sodium	25100	25000	100	90 - 110	P	06/17/2025	14:43	LB136187
CCV03	Iron	4870	5000	97	90 - 110	P	06/17/2025	15:38	LB136187
	Manganese	2400	2500	96	90 - 110	P	06/17/2025	15:38	LB136187
	Sodium	24400	25000	98	90 - 110	P	06/17/2025	15:38	LB136187
CCV04	Iron	4980	5000	100	90 - 110	P	06/17/2025	16:30	LB136187
	Manganese	2470	2500	99	90 - 110	P	06/17/2025	16:30	LB136187
	Sodium	25400	25000	102	90 - 110	P	06/17/2025	16:30	LB136187
CCV05	Iron	4900	5000	98	90 - 110	P	06/17/2025	17:37	LB136187
	Manganese	2440	2500	98	90 - 110	P	06/17/2025	17:37	LB136187
	Sodium	25200	25000	101	90 - 110	P	06/17/2025	17:37	LB136187
CCV06	Iron	4900	5000	98	90 - 110	P	06/17/2025	18:38	LB136187
	Manganese	2400	2500	96	90 - 110	P	06/17/2025	18:38	LB136187
	Sodium	25100	25000	100	90 - 110	P	06/17/2025	18:38	LB136187
CCV07	Iron	4900	5000	98	90 - 110	P	06/17/2025	19:25	LB136187
	Manganese	2430	2500	97	90 - 110	P	06/17/2025	19:25	LB136187
	Sodium	26000	25000	104	90 - 110	P	06/17/2025	19:25	LB136187
CCV08	Iron	4770	5000	95	90 - 110	P	06/17/2025	20:17	LB136187
	Manganese	2390	2500	96	90 - 110	P	06/17/2025	20:17	LB136187
	Sodium	25700	25000	103	90 - 110	P	06/17/2025	20:17	LB136187

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Metals

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CRDL STANDARD FOR AA & ICP

Client: G Environmental **SDG No.:** Q2334

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2334 **SAS No.:** Q2334

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	103	100	103	65 - 135	P	06/17/2025	12:50	LB136187
	Manganese	20.6	20.0	103	65 - 135	P	06/17/2025	12:50	LB136187
	Sodium	1870	2000	94	65 - 135	P	06/17/2025	12:50	LB136187

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Metals
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INTERFERENCE CHECK SAMPLE

Client: G Environmental **SDG No.:** Q2334

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2334 **SAS No.:** Q2334

ICS Source: EPA **Instrument ID:** P5

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	103000	100000	103	85600	116500	06/17/2025	13:11	LB136187
	Manganese	5.99	7.0	86	-13	27	06/17/2025	13:11	LB136187
	Sodium	116			0	0	06/17/2025	13:11	LB136187
ICSAB01	Iron	104000	99000	105	84400	114500	06/17/2025	13:22	LB136187
	Manganese	509	510	100	430	584	06/17/2025	13:22	LB136187
	Sodium	122			0	0	06/17/2025	13:22	LB136187

METAL QC DATA

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metals
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MATRIX SPIKE SUMMARY

client: G Environmental **level:** low **sdg no.:** Q2334

contract: GENV01 **lab code:** CHEM **case no.:** Q2334 **sas no.:** Q2334

matrix: Water **sample id:** Q2334-01 **client id:** MW3MS

Percent Solids for Sample: NA **Spiked ID:** Q2334-01MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Iron	ug/L	75 - 125	4110		2430		1500	112		P
Manganese	ug/L	75 - 125	661		530		100	131		P
Sodium	ug/L	75 - 125	11100		9770		1500	90		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: G Environmental **level:** low **sdg no.:** Q2334

contract: GENV01 **lab code:** CHEM **case no.:** Q2334 **sas no.:** Q2334

matrix: Water **sample id:** Q2334-01 **client id:** MW3MSD

Percent Solids for Sample: NA **Spiked ID:** Q2334-01MSD **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	4210		2430		1500	119		P
Manganese	ug/L	75 - 125	624		530		100	94		P
Sodium	ug/L	75 - 125	11200		9770		1500	94		P

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Metals
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Client: G Environmental **SDG No.:** Q2334

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2334 **SAS No.:** Q2334

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: G Environmental **Level:** LOW **SDG No.:** Q2334

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2334 **SAS No.:** Q2334

Matrix: Water **Sample ID:** Q2334-01 **Client ID:** MW3DUP

Percent Solids for Sample: NA **Duplicate ID** Q2334-01DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Iron	ug/L	20	2430		2410		1		P
Manganese	ug/L	20	530		520		2		P
Sodium	ug/L	20	9770		9710		1		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: G Environmental **Level:** LOW **SDG No.:** Q2334

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2334 **SAS No.:** Q2334

Matrix: Water **Sample ID:** Q2334-01MS **Client ID:** MW3MSD

Percent Solids for Sample: NA **Duplicate ID** Q2334-01MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Iron	ug/L	20	4110		4210		2		P
Manganese	ug/L	20	661		624		6		P
Sodium	ug/L	20	11100		11200		1		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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LABORATORY CONTROL SAMPLE SUMMARY

Client: G Environmental **SDG No.:** Q2334

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2334 **SAS No.:** Q2334

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168490BS							
Iron	ug/L	1500	1620		108	80 - 120	P
Manganese	ug/L	100	101		101	80 - 120	P
Sodium	ug/L	1500	1470		98	80 - 120	P

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

MW3L

Lab Name: Chemtech Consulting Group **Contract:** GENV01

Lab Code: CHEM **Lb No.:** lb136187 **Lab Sample ID :** Q2334-01L **SDG No.:** Q2334

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Iron	2430		3050		25		P
Manganese	530		562		6		P
Sodium	9770		10100		4		P

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ANALYSIS RUN LOG

Client: G Environmental **Contract:** GENV01

Lab code: CHEM **Case no.:** Q2334 **Sas no.:** Q2334 **Sdg no.:** Q2334

Instrument id number: **Method:** **Run number:** LB136187

Start date: 06/17/2025 **End date:** 06/17/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1158	Fe,Mn,Na
S1	S1	1	1203	Fe,Mn,Na
S2	S2	1	1207	Fe,Mn,Na
S3	S3	1	1211	Fe,Mn,Na
S4	S4	1	1216	Fe,Mn,Na
S5	S5	1	1220	Fe,Mn,Na
ICV01	ICV01	1	1225	Fe,Mn,Na
LLICV01	LLICV01	1	1241	Fe,Mn,Na
ICB01	ICB01	1	1246	Fe,Mn,Na
CRI01	CRI01	1	1250	Fe,Mn,Na
ICSA01	ICSA01	1	1311	Fe,Mn,Na
ICSAB01	ICSAB01	1	1322	Fe,Mn,Na
CCV01	CCV01	1	1340	Fe,Mn,Na
CCB01	CCB01	1	1348	Fe,Mn,Na
CCV02	CCV02	1	1443	Fe,Mn,Na
CCB02	CCB02	1	1450	Fe,Mn,Na
CCV03	CCV03	1	1538	Fe,Mn,Na
CCB03	CCB03	1	1542	Fe,Mn,Na
CCV04	CCV04	1	1630	Fe,Mn,Na
CCB04	CCB04	1	1634	Fe,Mn,Na
PB168490BL	PB168490BL	1	1719	Fe,Mn,Na
PB168490BS	PB168490BS	1	1723	Fe,Mn,Na
CCV05	CCV05	1	1737	Fe,Mn,Na
CCB05	CCB05	1	1741	Fe,Mn,Na
Q2334-01	MW3	1	1750	Fe,Mn,Na
Q2334-01DUP	MW3DUP	1	1754	Fe,Mn,Na
Q2334-01L	MW3L	5	1759	Fe,Mn,Na
Q2334-01MS	MW3MS	1	1803	Fe,Mn,Na
Q2334-01MSD	MW3MSD	1	1807	Fe,Mn,Na
Q2334-02	MW4	1	1816	Fe,Mn,Na
Q2334-03	GBTW1	5	1825	Fe,Mn,Na
CCV06	CCV06	1	1838	Fe,Mn,Na
CCB06	CCB06	1	1842	Fe,Mn,Na
CCV07	CCV07	1	1925	Fe,Mn,Na
CCB07	CCB07	1	1930	Fe,Mn,Na
CCV08	CCV08	1	2017	Fe,Mn,Na
CCB08	CCB08	1	2022	Fe,Mn,Na

METAL PREPARATION & INSTRUMENT DATA

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ICP INTERELEMENT CORRECTION FACTORS

Client: G Environmental **SDG No.:** Q2334

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2334 **SAS No.:** Q2334

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

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: G Environmental **SDG No.:** Q2334

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2334 **SAS No.:** Q2334

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
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

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: G Environmental **SDG No.:** Q2334

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2334 **SAS No.:** Q2334

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
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

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: G Environmental **SDG No.:** Q2334

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2334 **SAS No.:** Q2334

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
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

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: G Environmental **SDG No.:** Q2334

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2334 **SAS No.:** Q2334

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
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

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LAB CHRONICLE

OrderID:	Q2334	**OrderDate:**	6/13/2025 3:40:07 PM
Client:	G Environmental	**Project:**	Buff
Contact:	Gary Landis	**Location:**	D52,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2334-01	**MW3**	**Water**			**06/12/25**			**06/13/25**
			Metals Group4	6010D		06/16/25	06/17/25	
Q2334-02	**MW4**	**Water**			**06/12/25**			**06/13/25**
			Metals Group4	6010D		06/16/25	06/17/25	
Q2334-03	**GBTW1**	**Water**			**06/12/25**			**06/13/25**
			Metals Group4	6010D		06/16/25	06/17/25	

METAL PREPARATION & ANALYICAL SUMMARY

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Metals
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SAMPLE PREPARATION SUMMARY

Client: G Environmental **SDG No.:** Q2334

Contract: GENV01 **Lab Code:** CHEM **Method:**

Case No.: Q2334 **SAS No.:** Q2334

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB168490**						
PB168490BL	PB168490BL	MB	WATER	06/16/2025	50.0	25.0	
PB168490BS	PB168490BS	LCS	WATER	06/16/2025	50.0	25.0	
Q2334-01	MW3	SAM	WATER	06/16/2025	50.0	25.0	
Q2334-01DUP	MW3DUP	DUP	WATER	06/16/2025	50.0	25.0	
Q2334-01MS	MW3MS	MS	WATER	06/16/2025	50.0	25.0	
Q2334-01MSD	MW3MSD	MSD	WATER	06/16/2025	50.0	25.0	
Q2334-02	MW4	SAM	WATER	06/16/2025	50.0	25.0	
Q2334-03	GBTW1	SAM	WATER	06/16/2025	50.0	25.0	

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB136187

Review By	jaswal	Review On	6/19/2025 12:06:04 PM
Supervise By	MOHAN	Supervise On	6/19/2025 12:50:23 PM

STD. NAME	STD REF.#
ICAL Standard	MP85867,MP85897,MP85871,MP85870,MP85869,MP85868
ICV Standard	MP85872,MP85897
CCV Standard	MP85875
ICSA Standard	MP85873,MP85874
CRI Standard	MP85897
LCS Standard	
Chk Standard	MP85876,MP85877

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	06/17/25 11:58		Jaswal	OK
2	S1	S1	CAL2	06/17/25 12:03		Jaswal	OK
3	S2	S2	CAL3	06/17/25 12:07		Jaswal	OK
4	S3	S3	CAL4	06/17/25 12:11		Jaswal	OK
5	S4	S4	CAL5	06/17/25 12:16		Jaswal	OK
6	S5	S5	CAL6	06/17/25 12:20		Jaswal	OK
7	ICV01	ICV01	ICV	06/17/25 12:25		Jaswal	OK
8	LLICV01	LLICV01	LLICV	06/17/25 12:41		Jaswal	OK
9	ICB01	ICB01	ICB	06/17/25 12:46		Jaswal	OK
10	CRI01	CRI01	CRDL	06/17/25 12:50		Jaswal	OK
11	ICSA01	ICSA01	ICSA	06/17/25 13:11		Jaswal	OK
12	ICSAB01	ICSAB01	ICSAB	06/17/25 13:22		Jaswal	OK
13	ICSADL	ICSADL	ICSA	06/17/25 13:28		Jaswal	OK
14	ICSABDL	ICSABDL	ICSAB	06/17/25 13:35		Jaswal	OK
15	CCV01	CCV01	CCV	06/17/25 13:40		Jaswal	OK
16	CCB01	CCB01	CCB	06/17/25 13:48		Jaswal	OK
17	Q2264-04	EF-WW	SAM	06/17/25 13:53		Jaswal	OK
18	Q2264-04L	EF-WWL	SD	06/17/25 14:02		Jaswal	OK

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Fax : 908 789 8922

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB136187

Review By	jaswal	Review On	6/19/2025 12:06:04 PM
Supervise By	MOHAN	Supervise On	6/19/2025 12:50:23 PM

STD. NAME	STD REF.#
ICAL Standard	MP85867,MP85897,MP85871,MP85870,MP85869,MP85868
ICV Standard	MP85872,MP85897
CCV Standard	MP85875
ICSA Standard	MP85873,MP85874
CRI Standard	MP85897
LCS Standard	
Chk Standard	MP85876,MP85877

19	Q2264-04MS	EF-WWMS	MS	06/17/25 14:06		Jaswal	OK
20	Q2264-04MSD	EF-WWMSD	MSD	06/17/25 14:11		Jaswal	OK
21	Q2264-04A	EF-WWA	PS	06/17/25 14:15	0.1ML M6004,M6013-10ML SAMPLE	Jaswal	OK
22	Q2264-04DUP	EF-WWDUP	DUP	06/17/25 14:21		Jaswal	OK
23	Q2290-01	Outfall 1	SAM	06/17/25 14:25		Jaswal	OK
24	Q2290-02	Outfall 2	SAM	06/17/25 14:30		Jaswal	OK
25	Q2291-01	Outfall 001	SAM	06/17/25 14:34		Jaswal	OK
26	Q2292-01	SW-1	SAM	06/17/25 14:39		Jaswal	OK
27	CCV02	CCV02	CCV	06/17/25 14:43		Jaswal	OK
28	CCB02	CCB02	CCB	06/17/25 14:50		Jaswal	OK
29	Q2292-02	SW-2	SAM	06/17/25 14:54		Jaswal	OK
30	Q2293-01	SW-3	SAM	06/17/25 14:59		Jaswal	OK
31	Q2312-01	TP-1	SAM	06/17/25 15:03		Jaswal	OK
32	Q2319-01	MH-B	SAM	06/17/25 15:07		Jaswal	OK
33	Q2322-01	CL-01-061325	SAM	06/17/25 15:12		Jaswal	OK
34	Q2323-01	PL-01-06132025	SAM	06/17/25 15:16		Jaswal	OK
35	Q2324-01	HD-01-6132025	SAM	06/17/25 15:20		Jaswal	OK
36	Q2325-01	TP-8	SAM	06/17/25 15:25		Jaswal	OK
37	Q2325-01DUP	TP-8DUP	DUP	06/17/25 15:29		Jaswal	OK

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Fax : 908 789 8922

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB136187

Review By	jaswal	Review On	6/19/2025 12:06:04 PM
Supervise By	MOHAN	Supervise On	6/19/2025 12:50:23 PM

STD. NAME	STD REF.#
ICAL Standard	MP85867,MP85897,MP85871,MP85870,MP85869,MP85868
ICV Standard	MP85872,MP85897
CCV Standard	MP85875
ICSA Standard	MP85873,MP85874
CRI Standard	MP85897
LCS Standard	
Chk Standard	MP85876,MP85877

38	Q2325-01L	TP-8L	SD	06/17/25 15:34		Jaswal	OK
39	CCV03	CCV03	CCV	06/17/25 15:38		Jaswal	OK
40	CCB03	CCB03	CCB	06/17/25 15:42		Jaswal	OK
41	Q2325-01MS	TP-8MS	MS	06/17/25 15:46		Jaswal	OK
42	Q2325-01MSD	TP-8MSD	MSD	06/17/25 15:51		Jaswal	OK
43	Q2325-01A	TP-8A	PS	06/17/25 15:55	0.1ML M6004,M6013-10ML SAMPLE	Jaswal	OK
44	Q2307-01	LINDEN-SAA	SAM	06/17/25 15:59		Jaswal	OK
45	Q2310-01	TP-7	SAM	06/17/25 16:04		Jaswal	OK
46	Q2310-01DUP	TP-7DUP	DUP	06/17/25 16:08		Jaswal	OK
47	Q2310-01L	TP-7L	SD	06/17/25 16:12		Jaswal	OK
48	Q2310-01MS	TP-7MS	MS	06/17/25 16:17		Jaswal	OK
49	Q2310-01MSD	TP-7MSD	MSD	06/17/25 16:21		Jaswal	OK
50	Q2310-01A	TP-7A	PS	06/17/25 16:25	0.1ML M6004,M6013-10ML SAMPLE	Jaswal	OK
51	CCV04	CCV04	CCV	06/17/25 16:30		Jaswal	OK
52	CCB04	CCB04	CCB	06/17/25 16:34		Jaswal	OK
53	PB168444BL	PB168444BL	MB	06/17/25 16:40		Jaswal	OK
54	PB168444BS	PB168444BS	LCS	06/17/25 16:49		Jaswal	OK
55	PB168489BL	PB168489BL	MB	06/17/25 17:00		Jaswal	OK
56	PB168489BS	PB168489BS	LCS	06/17/25 17:05		Jaswal	OK

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Fax : 908 789 8922

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB136187

Review By	jaswal	Review On	6/19/2025 12:06:04 PM
Supervise By	MOHAN	Supervise On	6/19/2025 12:50:23 PM

STD. NAME	STD REF.#
ICAL Standard	MP85867,MP85897,MP85871,MP85870,MP85869,MP85868
ICV Standard	MP85872,MP85897
CCV Standard	MP85875
ICSA Standard	MP85873,MP85874
CRI Standard	MP85897
LCS Standard	
Chk Standard	MP85876,MP85877

57	PB168475BL	PB168475BL	MB	06/17/25 17:10		Jaswal	OK
58	PB168475BS	PB168475BS	LCS	06/17/25 17:14		Jaswal	OK
59	PB168490BL	PB168490BL	MB	06/17/25 17:19		Jaswal	OK
60	PB168490BS	PB168490BS	LCS	06/17/25 17:23		Jaswal	OK
61	Q2311-08	TP04-MH4-WC	SAM	06/17/25 17:27		Jaswal	OK
62	Q2311-04	TP03-MH2MH3-WC	SAM	06/17/25 17:32		Jaswal	OK
63	CCV05	CCV05	CCV	06/17/25 17:37		Jaswal	OK
64	CCB05	CCB05	CCB	06/17/25 17:41		Jaswal	OK
65	Q2334-01	MW3	SAM	06/17/25 17:50		Jaswal	OK
66	Q2334-01DUP	MW3DUP	DUP	06/17/25 17:54		Jaswal	OK
67	Q2334-01L	MW3L	SD	06/17/25 17:59		Jaswal	OK
68	Q2334-01MS	MW3MS	MS	06/17/25 18:03		Jaswal	OK
69	Q2334-01MSD	MW3MSD	MSD	06/17/25 18:07		Jaswal	OK
70	Q2334-02	MW4	SAM	06/17/25 18:16		Jaswal	OK
71	Q2334-01A	MW3A	PS	06/17/25 18:20	0.1ML M6004,M6013-10ML SAMPLE	Jaswal	OK
72	Q2334-03DL	GBTW1DL	SAM	06/17/25 18:25	Straight 5X	Jaswal	OK
73	Q2296-13	WC-4	SAM	06/17/25 18:29		Jaswal	OK
74	Q2296-17	WC-5	SAM	06/17/25 18:33		Jaswal	OK
75	CCV06	CCV06	CCV	06/17/25 18:38		Jaswal	OK

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Fax : 908 789 8922

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB136187

Review By	jaswal	Review On	6/19/2025 12:06:04 PM
Supervise By	MOHAN	Supervise On	6/19/2025 12:50:23 PM

STD. NAME	STD REF.#
ICAL Standard	MP85867,MP85897,MP85871,MP85870,MP85869,MP85868
ICV Standard	MP85872,MP85897
CCV Standard	MP85875
ICSA Standard	MP85873,MP85874
CRI Standard	MP85897
LCS Standard	
Chk Standard	MP85876,MP85877

76	CCB06	CCB06	CCB	06/17/25 18:42		Jaswal	OK
77	Q2311-01	TP03-MH2MH3-WC	SAM	06/17/25 18:47		Jaswal	OK
78	Q2311-05	TP04-MH4-WC	SAM	06/17/25 18:51		Jaswal	OK
79	Q2296-01	WC-1	SAM	06/17/25 18:55		Jaswal	OK
80	Q2296-01DUP	WC-1DUP	DUP	06/17/25 19:00		Jaswal	OK
81	Q2296-01L	WC-1L	SD	06/17/25 19:04		Jaswal	OK
82	Q2296-01MS	WC-1MS	MS	06/17/25 19:08		Jaswal	OK
83	Q2296-01MSD	WC-1MSD	MSD	06/17/25 19:12		Jaswal	OK
84	Q2296-01A	WC-1A	PS	06/17/25 19:17	0.1ML M6004,M6013-10ML SAMPLE	Jaswal	OK
85	Q2296-09	WC-3	SAM	06/17/25 19:21		Jaswal	OK
86	CCV07	CCV07	CCV	06/17/25 19:25		Jaswal	OK
87	CCB07	CCB07	CCB	06/17/25 19:30		Jaswal	OK
88	Q2296-21	WC-6	SAM	06/17/25 19:34		Jaswal	OK
89	Q2297-01	TP-3	SAM	06/17/25 19:38		Jaswal	OK
90	Q2307-03DL	LINDEN-SAA-WATER	SAM	06/17/25 19:43		Jaswal	OK
91	Q2316-01	RW8-SP100-2025061	SAM	06/17/25 19:47		Jaswal	OK
92	Q2316-02	RW8-SP303-2025061	SAM	06/17/25 19:51		Jaswal	OK
93	Q2316-02DUP	RW8-SP303-2025061	DUP	06/17/25 19:56		Jaswal	OK
94	Q2316-02L	RW8-SP303-2025061	SD	06/17/25 20:00		Jaswal	OK

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Fax : 908 789 8922

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB136187

Review By	jaswal	Review On	6/19/2025 12:06:04 PM
Supervise By	MOHAN	Supervise On	6/19/2025 12:50:23 PM

STD. NAME	STD REF.#
ICAL Standard	MP85867,MP85897,MP85871,MP85870,MP85869,MP85868
ICV Standard	MP85872,MP85897
CCV Standard	MP85875
ICSA Standard	MP85873,MP85874
CRI Standard	MP85897
LCS Standard	
Chk Standard	MP85876,MP85877

95	Q2316-02MS	RW8-SP303-2025061	MS	06/17/25 20:04		Jaswal	OK
96	Q2316-02MSD	RW8-SP303-2025061	MSD	06/17/25 20:09		Jaswal	OK
97	Q2316-02A	RW8-SP303-2025061	PS	06/17/25 20:13	0.1ML M6004,M6013-10ML SAMPLE	Jaswal	OK
98	CCV08	CCV08	CCV	06/17/25 20:17		Jaswal	OK
99	CCB08	CCB08	CCB	06/17/25 20:22		Jaswal	OK

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB168490

SOP ID : M3010A-Digestion-17

SDG No : N/A

Matrix : WATER

Pippete ID: ICP A

Balance ID : N/A

Filter paper ID : N/A

pH Strip ID : M6069

Hood ID : #3

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

Start Digest Date: 06/16/2025 **Time :** 10:15 **Temp :** 96 °C

End Digest Date: 06/16/2025 **Time :** 13:25 **Temp :** 96 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: SPS.

Supervisor Signature: JSP

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	0.25	M6007
LFS-2	0.25	M6016
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	M6158
1:1 HCL	5.00	MP85156
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#50 96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
06/16/25 14:25	SPS.met dig	JSP / Metlab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB168490

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
PB168490BL	PBW490	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	1
PB168490BS	LCS490	<2	50	25	Colorless	Colorless	Clear	Clear	M6007,M6016	2
Q2334-01MS	MW3MS	<2	50	25	Colorless	Colorless	Clear	Clear	M6007,M6016	5
Q2334-01MSD	MW3MSD	<2	50	25	Colorless	Colorless	Clear	Clear	M6007,M6016	6
Q2334-01DUP	MW3DUP	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	4
Q2334-01	MW3	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	3
Q2334-02	MW4	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	7
Q2334-03	GBTW1	<2	50	25	Brown	Colorless	Cloudy	Clear	N/A	8

A B C D E F G H I J