

DATA PACKAGE

GENERAL CHEMISTRY
METALS

PROJECT NAME : BUFF

G ENVIRONMENTAL

8 Carriage Ln

Succasunna, NJ - 07876

Phone No: 973-294-1771

ORDER ID : Q3737

ATTENTION : Gary Landis



Laboratory Certification ID # 20012



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DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE SUMMARY QUESTIONNAIRE

1

Laboratory Name : Alliance Technical Group LLC Client : G Environmental

Project Location : NJ Project Number : Buff

Laboratory Sample ID(s) : Q3737 Sampling Date(s) : 11/25/2025

List DKQP Methods Used (e.g., 8260,8270, et Cetra) **300.0,6010D,SM2320 B,SOP**

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	☒ Yes ☐ No
1A	Were the method specified handling, preservation, and holding time requirements met?	☒ Yes ☐ No
1B	EPH Method: Was the EPH method conducted without significant modifications (see Section 11.3 of respective DKQ methods)	☐ Yes ☐ No ☒ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☒ Yes ☐ No
3	Were samples received at an appropriate temperature (4±2° C)?	☒ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	☐ Yes ☒ No
5	a)Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt? b)Were these reporting limits met?	☒ Yes ☐ No ☒ Yes ☐ No ☐ N/A
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	☒ Yes ☐ No
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	☒ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information should be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Data of Known Quality."

Cover Page

Order ID : Q3737

Project ID : Buff

Client : G Environmental

Lab Sample Number

Q3737-01
Q3737-02

Client Sample Number

MW3
MW4

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature :

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 9:36 am, Dec 08, 2025

Date: 12/4/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

G Environmental

Project Name: Buff

Project # N/A

Order ID # Q3737

Test Name: Metals Group4,Alkalinity,Anions Group1

A. Number of Samples and Date of Receipt:

2 Water samples were received on 11/26/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Metals Group4,Alkalinity,Anions Group1. This data package contains results for Metals Group4(6010D),Alkalinity(SM2320 B),Anions Group1(300.0).

C. Analytical Techniques:

Metals Group4 : The analysis of Metals Group4 was based on method 6010D and digestion based on method 3010 (waters).

Wetchem : The analysis of Anions Group1 was based on method 300.0 and The analysis of Alkalinity was based on method SM2320 B.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

Wetchem : Sample MW3 was diluted due to high concentrations for Sulfate & Sample MW4 was diluted due to high concentrations for Sulfate.

The MS recoveries met the requirements for all compounds except following Wetchem : The Matrix Spike (MW4MS) analysis met criteria for all compounds except for Anions Group1(Sulfate) due to sample matrix interference.

The MSD recoveries met the requirements for all compounds except following Wetchem : The Matrix Spike Duplicate (MW4MSD) analysis met criteria for all compounds except for Anions Group1(Sulfate) due to sample matrix interference.

The Blank Spike met requirements for all compounds.

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements.

The Continuous Calibration met the requirements.

The Duplicate analysis met criteria for all compounds.

The Serial Dilution met the acceptable requirements.

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E. Additional Comments:

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 9:36 am, Dec 08, 2025

Signature _____

DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following “ Results Qualifiers” are used:

J	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
U	Indicates the analyte was analyzed for, but not detected.
ND	Indicates the analyte was analyzed for, but not detected
E	Indicates the reported value is estimated because of the presence of interference
M	Indicates Duplicate injection precision not met.
N	Indicates the spiked sample recovery is not within control limits.
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).
*	Indicates that the duplicate analysis is not within control limits.
+	Indicates the correlation coefficient for the MSA is less than 0.995.
D	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
M	Method qualifiers “P” for ICP instrument “PM” for ICP when Microwave Digestion is used “CV” for Manual Cold Vapor AA “AV” for automated Cold Vapor AA “CA” for MIDI-Distillation Spectrophotometric “AS” for Semi -Automated Spectrophotometric “C” for Manual Spectrophotometric “T” for Titrimetric “NR” for analyte not required to be analyzed
OR	Indicates the analyte’s concentration exceeds the calibrated range of the instrument for that specific analysis.
Q	Indicates the LCS did not meet the control limits requirements
H	Sample Analysis Out Of Hold Time

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3737

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 12/04/2025

Hit Summary Sheet SW-846

SDG No.: Q3737 **Order ID:** Q3737
Client: G Environmental **Project ID:** Buff

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : MW3								
Q3737-01	MW3	Water	Iron	7020		11.7	50.0	ug/L
Q3737-01	MW3	Water	Manganese	259		2.97	10.0	ug/L
Q3737-01	MW3	Water	Sodium	221000		434	1000	ug/L
Client ID : MW4								
Q3737-02	MW4	Water	Iron	3700		11.7	50.0	ug/L
Q3737-02	MW4	Water	Manganese	587		2.97	10.0	ug/L
Q3737-02	MW4	Water	Sodium	420000		434	1000	ug/L



SAMPLE DATA

Report of Analysis

Client:	G Environmental	Date Collected:	11/25/25
Project:	Buff	Date Received:	11/26/25
Client Sample ID:	MW3	SDG No.:	Q3737
Lab Sample ID:	Q3737-01	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	7020	1	11.7		50.0	ug/L	12/01/25 11:20	12/01/25 18:42	6010D	M3010A
7439-96-5	Manganese	259	1	2.97		10.0	ug/L	12/01/25 11:20	12/01/25 18:42	6010D	M3010A
7440-23-5	Sodium	221000	1	434		1000	ug/L	12/01/25 11:20	12/01/25 18:42	6010D	M3010A

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: G Environmental
Project: Buff
Client Sample ID: MW4
Lab Sample ID: Q3737-02
Level (low/med): low

Date Collected: 11/25/25
Date Received: 11/26/25
SDG No.: Q3737
Matrix: Water
% Solid: 0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7439-89-6	Iron	3700	1	11.7		50.0	ug/L	12/01/25 11:20	12/01/25 18:46	6010D	M3010A
7439-96-5	Manganese	587	1	2.97		10.0	ug/L	12/01/25 11:20	12/01/25 18:46	6010D	M3010A
7440-23-5	Sodium	420000	1	434		1000	ug/L	12/01/25 11:20	12/01/25 18:46	6010D	M3010A

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.: Q3737

Contract: GENV01

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Iron	23.4	+/-50	U	100	P	12/01/2025	13:46	LB138072
	Manganese	5.94	+/-10	U	20.0	P	12/01/2025	13:46	LB138072
	Sodium	868	+/-1000	U	2000	P	12/01/2025	13:46	LB138072

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: G Environmental **SDG No.:** Q3737
Contract: GENV01 **Lab Code:** ACE

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	12/01/2025	14:34	LB138072
	Manganese	5.94	+/-10	U	20.0	P	12/01/2025	14:34	LB138072
	Sodium	868	+/-1000	U	2000	P	12/01/2025	14:34	LB138072
CCB02	Iron	23.4	+/-50	U	100	P	12/01/2025	15:31	LB138072
	Manganese	5.94	+/-10	U	20.0	P	12/01/2025	15:31	LB138072
	Sodium	908	+/-1000	J	2000	P	12/01/2025	15:31	LB138072
CCB03	Iron	23.4	+/-50	U	100	P	12/01/2025	16:38	LB138072
	Manganese	5.94	+/-10	U	20.0	P	12/01/2025	16:38	LB138072
	Sodium	868	+/-1000	U	2000	P	12/01/2025	16:38	LB138072
CCB04	Iron	23.4	+/-50	U	100	P	12/01/2025	17:29	LB138072
	Manganese	5.94	+/-10	U	20.0	P	12/01/2025	17:29	LB138072
	Sodium	868	+/-1000	U	2000	P	12/01/2025	17:29	LB138072
CCB05	Iron	23.4	+/-50	U	100	P	12/01/2025	18:20	LB138072
	Manganese	5.94	+/-10	U	20.0	P	12/01/2025	18:20	LB138072
	Sodium	868	+/-1000	U	2000	P	12/01/2025	18:20	LB138072
CCB06	Iron	23.4	+/-50	U	100	P	12/01/2025	19:11	LB138072
	Manganese	5.94	+/-10	U	20.0	P	12/01/2025	19:11	LB138072
	Sodium	868	+/-1000	U	2000	P	12/01/2025	19:11	LB138072
CCB07	Iron	23.4	+/-50	U	100	P	12/01/2025	19:28	LB138072
	Manganese	5.94	+/-10	U	20.0	P	12/01/2025	19:28	LB138072
	Sodium	868	+/-1000	U	2000	P	12/01/2025	19:28	LB138072

Metals
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PREPARATION BLANK SUMMARY

Client: G Environmental

SDG No.: Q3737

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB170768BL	WATER			Batch Number:	PB170768		Prep Date:	12/01/2025	
	Iron	11.7	<25	U	50.0	P	12/01/2025	17:08	LB138072
	Manganese	2.97	<5	U	10.0	P	12/01/2025	17:08	LB138072
	Sodium	434	<500	U	1000	P	12/01/2025	17:08	LB138072



METAL CALIBRATION DATA

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: G Environmental
Contract: GENV01
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

SDG No.: Q3737
Lab Code: ACE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Iron	3920	4000	98	90 - 110	P	12/01/2025	13:16	LB138072
	Manganese	1940	2000	97	90 - 110	P	12/01/2025	13:16	LB138072
	Sodium	19500	20000	97	90 - 110	P	12/01/2025	13:16	LB138072

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: G Environmental
Contract: GENV01
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

SDG No.: Q3737
Lab Code: ACE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Iron	88.6	100	89	80 - 120	P	12/01/2025	13:42	LB138072
	Manganese	22.0	20.0	110	80 - 120	P	12/01/2025	13:42	LB138072
	Sodium	2010	2000	100	80 - 120	P	12/01/2025	13:42	LB138072

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: G Environmental

Contract: GENV01

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

SDG No.: Q3737

Lab Code: ACE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Iron	5140	5000	103	90 - 110	P	12/01/2025	14:30	LB138072
	Manganese	2490	2500	99	90 - 110	P	12/01/2025	14:30	LB138072
	Sodium	25500	25000	102	90 - 110	P	12/01/2025	14:30	LB138072
CCV02	Iron	5120	5000	102	90 - 110	P	12/01/2025	15:26	LB138072
	Manganese	2480	2500	99	90 - 110	P	12/01/2025	15:26	LB138072
	Sodium	26900	25000	107	90 - 110	P	12/01/2025	15:26	LB138072
CCV03	Iron	5140	5000	103	90 - 110	P	12/01/2025	16:33	LB138072
	Manganese	2450	2500	98	90 - 110	P	12/01/2025	16:33	LB138072
	Sodium	26400	25000	106	90 - 110	P	12/01/2025	16:33	LB138072
CCV04	Iron	5290	5000	106	90 - 110	P	12/01/2025	17:25	LB138072
	Manganese	2580	2500	103	90 - 110	P	12/01/2025	17:25	LB138072
	Sodium	26800	25000	107	90 - 110	P	12/01/2025	17:25	LB138072
CCV05	Iron	5290	5000	106	90 - 110	P	12/01/2025	18:16	LB138072
	Manganese	2500	2500	100	90 - 110	P	12/01/2025	18:16	LB138072
	Sodium	26100	25000	104	90 - 110	P	12/01/2025	18:16	LB138072
CCV06	Iron	5330	5000	106	90 - 110	P	12/01/2025	19:07	LB138072
	Manganese	2530	2500	101	90 - 110	P	12/01/2025	19:07	LB138072
	Sodium	26600	25000	106	90 - 110	P	12/01/2025	19:07	LB138072
CCV07	Iron	5410	5000	108	90 - 110	P	12/01/2025	19:24	LB138072
	Manganese	2560	2500	102	90 - 110	P	12/01/2025	19:24	LB138072
	Sodium	25900	25000	103	90 - 110	P	12/01/2025	19:24	LB138072



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Metals

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CRDL STANDARD FOR AA & ICP

Client: G Environmental

SDG No.: Q3737

Contract: GENV01

Lab Code: ACE

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	86.8	100	87	65 - 135	P	12/01/2025	13:50	LB138072
	Manganese	21.5	20.0	107	65 - 135	P	12/01/2025	13:50	LB138072
	Sodium	1990	2000	100	65 - 135	P	12/01/2025	13:50	LB138072

Metals
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INTERFERENCE CHECK SAMPLE

Client: <u>G Environmental</u>	SDG No.: <u>Q3737</u>
Contract: <u>GENV01</u>	Lab Code: <u>ACE</u>
ICS Source: <u>EPA</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	Iron	100000	101000	99	85600	116500	12/01/2025	13:55	LB138072
	Manganese	10.4	7.0	148	-13	27	12/01/2025	13:55	LB138072
	Sodium	125			0	0	12/01/2025	13:55	LB138072
ICSAB01	Iron	97000	99300	98	84400	114500	12/01/2025	14:09	LB138072
	Manganese	509	507	100	430	584	12/01/2025	14:09	LB138072
	Sodium	-53.5			0	0	12/01/2025	14:09	LB138072



METAL QC DATA

metals
- 5a -
MATRIX SPIKE SUMMARY

client: <u>G Environmental</u>	level: <u>low</u>	sdg no.: <u>Q3737</u>
contract: <u>GENV01</u>		lab code: <u>ACE</u>
matrix: <u>Water</u>	sample id: <u>Q3737-02</u>	client id: <u>MW4MS</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>Q3737-02MS</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	5360		3700		1500	111		P
Manganese	ug/L	75 - 125	663		587		100	76		P
Sodium	ug/L	75 - 125	412000		420000		1500	-494		P

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metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: <u>G Environmental</u>	level: <u>low</u>	sdg no.: <u>Q3737</u>
contract: <u>GENV01</u>		lab code: <u>ACE</u>
matrix: <u>Water</u>	sample id: <u>Q3737-02</u>	client id: <u>MW4MSD</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>Q3737-02MSD</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
Iron	ug/L	75 - 125	5380		3700		1500	113		P
Manganese	ug/L	75 - 125	664		587		100	77		P
Sodium	ug/L	75 - 125	410000		420000		1500	-689		P

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Metals
- 5b -

Client:G Environmental

SDG No.:Q3737

Contract:GENV01

Lab Code:ACE

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:	<u>G Environmental</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q3737</u>
Contract:	<u>GENV01</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Water</u>	Sample ID:	<u>Q3737-02</u>	Client ID:	<u>MW4DUP</u>
Percent Solids for Sample:	NA	Duplicate ID	Q3737-02DUP	Percent Solids for Spike Sample:	NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Iron	ug/L	20	3700		3750		1		P
Manganese	ug/L	20	587		579		1		P
Sodium	ug/L	20	420000		422000		0		P

“A control limit of $\pm 20\%$ RPD for each matrix applies for sample values greater than 10 times Detection Limit”

Metals

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DUPLICATE SAMPLE SUMMARY

Client:	<u>G Environmental</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q3737</u>
Contract:	<u>GENV01</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Water</u>	Sample ID:	<u>Q3737-02MS</u>	Client ID:	<u>MW4MSD</u>
Percent Solids for Sample:	NA	Duplicate ID	Q3737-02MSD	Percent Solids for Spike Sample:	NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Iron	ug/L	20	5360		5380		0		P
Manganese	ug/L	20	663		664		0		P
Sodium	ug/L	20	412000		410000		0		P

“A control limit of $\pm 20\%$ RPD for each matrix applies for sample values greater than 10 times Detection Limit”

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client:	<u>G Environmental</u>	SDG No.:	<u>Q3737</u>
Contract:	<u>GENV01</u>	Lab Code:	<u>ACE</u>

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB170768BS							
Iron	ug/L	1500	1490		99	80 - 120	P
Manganese	ug/L	100	98.6		99	80 - 120	P
Sodium	ug/L	1500	1500		100	80 - 120	P

Metals
-9 -
ICP SERIAL DILUTIONS

SAMPLE NO.

MW4L

Lab Name: Alliance **Contract:** GENV01
Lab Code: ACE **Lb No.:** lb138072 **Lab Sample ID :** Q3737-02L **SDG No.:** Q3737
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	3700	3530	4		P
Manganese	587	592	1		P
Sodium	420000	387000	8		P

metals
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ANALYSIS RUN LOG

Client: G Environmental

Contract: GENV01

Lab code: ACE

Sdg no.: Q3737

Instrument id number: _____

Method: _____

Run number: LB138072

Start date: 12/01/2025

End date: 12/01/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1235	Fe,Mn,Na
S1	S1	1	1239	Fe,Mn,Na
S2	S2	1	1243	Fe,Mn,Na
S3	S3	1	1247	Fe,Mn,Na
S4	S4	1	1251	Fe,Mn,Na
S5	S5	1	1256	Fe,Mn,Na
ICV01	ICV01	1	1316	Fe,Mn,Na
LLICV01	LLICV01	1	1342	Fe,Mn,Na
ICB01	ICB01	1	1346	Fe,Mn,Na
CRI01	CRI01	1	1350	Fe,Mn,Na
ICSA01	ICSA01	1	1355	Fe,Mn,Na
ICSAB01	ICSAB01	1	1409	Fe,Mn,Na
CCV01	CCV01	1	1430	Fe,Mn,Na
CCB01	CCB01	1	1434	Fe,Mn,Na
CCV02	CCV02	1	1526	Fe,Mn,Na
CCB02	CCB02	1	1531	Fe,Mn,Na
CCV03	CCV03	1	1633	Fe,Mn,Na
CCB03	CCB03	1	1638	Fe,Mn,Na
PB170768BL	PB170768BL	1	1708	Fe,Mn,Na
PB170768BS	PB170768BS	1	1713	Fe,Mn,Na
CCV04	CCV04	1	1725	Fe,Mn,Na
CCB04	CCB04	1	1729	Fe,Mn,Na
CCV05	CCV05	1	1816	Fe,Mn,Na
CCB05	CCB05	1	1820	Fe,Mn,Na
Q3737-01	MW3	1	1842	Fe,Mn,Na
Q3737-02	MW4	1	1846	Fe,Mn,Na
Q3737-02DUP	MW4DUP	1	1850	Fe,Mn,Na
Q3737-02L	MW4L	5	1855	Fe,Mn,Na
Q3737-02MS	MW4MS	1	1859	Fe,Mn,Na
Q3737-02MSD	MW4MSD	1	1903	Fe,Mn,Na
CCV06	CCV06	1	1907	Fe,Mn,Na
CCB06	CCB06	1	1911	Fe,Mn,Na
CCV07	CCV07	1	1924	Fe,Mn,Na
CCB07	CCB07	1	1928	Fe,Mn,Na



METAL PREPARATION & INSTRUMENT DATA

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: G Environmental

SDG No.: Q3737

Contract: GENV01

Lab Code: ACE

Instrument ID: _____

Date: _____

Interement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interement 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

- 11 -

ICP INTERELEMEN CORRECTION FACTORS

Client: G Environmental

SDG No.: Q3737

Contract: GENV01

Lab Code: ACE

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

A

B

C

D

E

F

G

H

I

J

Metals

- 11 -

ICP INTERELEMEN CORRECTION FACTORS

Client: G Environmental

SDG No.: Q3737

Contract: GENV01

Lab Code: ACE

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

A

B

C

D

E

F

G

H

I

J

Metals

- 11 -

ICP INTERELEMEN CORRECTION FACTORS

Client: G Environmental

SDG No.: Q3737

Contract: GENV01

Lab Code: ACE

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

A

B

C

D

E

F

G

H

I

J

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: G Environmental

SDG No.: Q3737

Contract: GENV01

Lab Code: ACE

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

LAB CHRONICLE

OrderID:	Q3737	OrderDate:	11/26/2025 4:01:00 PM
Client:	G Environmental	Project:	Buff
Contact:	Gary Landis	Location:	--Select--,A11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3737-01	MW3	Water	Metals Group4	6010D	11/25/25	12/01/25	12/01/25	11/26/25
Q3737-02	MW4	Water	Metals Group4	6010D	11/25/25	12/01/25	12/01/25	11/26/25



METAL PREPARATION & ANALYICAL SUMMARY

Metals
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SAMPLE PREPARATION SUMMARY

Client: G Environmental
Contract: GENV01

SDG No.: Q3737
Lab Code: ACE

Method: _____

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB170768							
PB170768BL	PB170768BL	MB	WATER	12/01/2025	50.0	25.0	
PB170768BS	PB170768BS	LCS	WATER	12/01/2025	50.0	25.0	
Q3737-01	MW3	SAM	WATER	12/01/2025	50.0	25.0	
Q3737-02	MW4	SAM	WATER	12/01/2025	50.0	25.0	
Q3737-02DUP	MW4DUP	DUP	WATER	12/01/2025	50.0	25.0	
Q3737-02MS	MW4MS	MS	WATER	12/01/2025	50.0	25.0	
Q3737-02MSD	MW4MSD	MSD	WATER	12/01/2025	50.0	25.0	

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB138072

Review By	Janvi	Review On	12/3/2025 10:04:55 AM
Supervise By	jaswal	Supervise On	12/3/2025 10:06:27 PM
STD. NAME	STD REF.#		
ICAL Standard	MP88101,MP88123,MP88121,MP88120,MP88119,MP88118		
ICV Standard	MP88124,MP88123		
CCV Standard	MP88127		
ICSA Standard	MP88125,MP88126		
CRI Standard	MP88120		
LCS Standard			
Chk Standard	MP88128,MP88129,MP88130,MP88131,MP88132		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	12/01/25 12:35		Jaswal	OK
2	S1	S1	CAL2	12/01/25 12:39		Jaswal	OK
3	S2	S2	CAL3	12/01/25 12:43		Jaswal	OK
4	S3	S3	CAL4	12/01/25 12:47		Jaswal	OK
5	S4	S4	CAL5	12/01/25 12:51		Jaswal	OK
6	S5	S5	CAL6	12/01/25 12:56		Jaswal	OK
7	ICV01	ICV01	ICV	12/01/25 13:16		Jaswal	OK
8	LLICV01	LLICV01	LLICV	12/01/25 13:42		Jaswal	OK
9	ICB01	ICB01	ICB	12/01/25 13:46		Jaswal	OK
10	CRI01	CRI01	CRDL	12/01/25 13:50		Jaswal	OK
11	ICSA01	ICSA01	ICSA	12/01/25 13:55		Jaswal	OK
12	ICSAB01	ICSAB01	ICSAB	12/01/25 14:09		Jaswal	OK
13	ICSADL	ICSADL	ICSA	12/01/25 14:13		Jaswal	OK
14	ICSABDL	ICSABDL	ICSAB	12/01/25 14:17		Jaswal	OK
15	CCV01	CCV01	CCV	12/01/25 14:30		Jaswal	OK
16	CCB01	CCB01	CCB	12/01/25 14:34		Jaswal	OK
17	Q3731-01	W1	SAM	12/01/25 14:38		Jaswal	OK
18	Q3731-02	W1	SAM	12/01/25 14:43		Jaswal	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB138072

Review By	Janvi	Review On	12/3/2025 10:04:55 AM
Supervise By	jaswal	Supervise On	12/3/2025 10:06:27 PM
STD. NAME	STD REF.#		
ICAL Standard	MP88101,MP88123,MP88121,MP88120,MP88119,MP88118		
ICV Standard	MP88124,MP88123		
CCV Standard	MP88127		
ICSA Standard	MP88125,MP88126		
CRI Standard	MP88120		
LCS Standard			
Chk Standard	MP88128,MP88129,MP88130,MP88131,MP88132		

19	PB170769BL	PB170769BL	MB	12/01/25 14:47		Jaswal	OK
20	PB170769BS	PB170769BS	LCS	12/01/25 14:51		Jaswal	OK
21	Q3642-01	EFFLUENT-DAY-1-M	SAM	12/01/25 14:55		Jaswal	OK
22	Q3642-01L	EFFLUENT-DAY-1-M	SD	12/01/25 15:04		Jaswal	OK
23	Q3642-01MS	EFFLUENT-DAY-1-M	MS	12/01/25 15:08		Jaswal	OK
24	Q3642-01MSD	EFFLUENT-DAY-1-M	MSD	12/01/25 15:13		Jaswal	OK
25	Q3642-01A	EFFLUENT-DAY-1-M	PS	12/01/25 15:17	0.1 ML OF EACH M6008 AND M6017 IN 10ML SAMPLE.	Jaswal	OK
26	Q3642-01DUP	EFFLUENT-DAY-1-M	DUP	12/01/25 15:21		Jaswal	OK
27	CCV02	CCV02	CCV	12/01/25 15:26		Jaswal	OK
28	CCB02	CCB02	CCB	12/01/25 15:31		Jaswal	OK
29	LR-2	LR-2	HIGH STD	12/01/25 15:40		Jaswal	OK
30	LR-1	LR-1	HIGH STD	12/01/25 15:49		Jaswal	OK
31	Q3736-02	D1	SAM	12/01/25 15:53		Jaswal	OK
32	Q3736-02DUP	D1DUP	DUP	12/01/25 15:58		Jaswal	OK
33	LR-3	LR-3	HIGH STD	12/01/25 16:07		Jaswal	OK
34	Q3736-02L	D1L	SD	12/01/25 16:11		Jaswal	OK
35	Q3736-02MS	D1MS	MS	12/01/25 16:16		Jaswal	OK
36	Q3736-02MSD	D1MSD	MSD	12/01/25 16:20		Jaswal	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB138072

Review By	Janvi	Review On	12/3/2025 10:04:55 AM
Supervise By	jaswal	Supervise On	12/3/2025 10:06:27 PM

STD. NAME	STD REF.#
ICAL Standard	MP88101,MP88123,MP88121,MP88120,MP88119,MP88118
ICV Standard	MP88124,MP88123
CCV Standard	MP88127
ICSA Standard	MP88125,MP88126
CRI Standard	MP88120
LCS Standard	
Chk Standard	MP88128,MP88129,MP88130,MP88131,MP88132

37	Q3736-02A	D1A	PS	12/01/25 16:24	0.1 ML OF EACH M6008 AND M6017 IN 10ML SAMPLE.	Jaswal	OK
38	Q3740-02	WC1	SAM	12/01/25 16:28		Jaswal	OK
39	CCV03	CCV03	CCV	12/01/25 16:33		Jaswal	OK
40	CCB03	CCB03	CCB	12/01/25 16:38		Jaswal	OK
41	PB170766BL	PB170766BL	MB	12/01/25 16:52		Jaswal	OK
42	PB170766BS	PB170766BS	LCS	12/01/25 16:56		Jaswal	OK
43	PB170767BL	PB170767BL	MB	12/01/25 17:00		Jaswal	OK
44	PB170767BS	PB170767BS	LCS	12/01/25 17:04		Jaswal	OK
45	PB170768BL	PB170768BL	MB	12/01/25 17:08		Jaswal	OK
46	PB170768BS	PB170768BS	LCS	12/01/25 17:13		Jaswal	OK
47	Q3725-04DL	STOCKPILE-SAMPLE	SAM	12/01/25 17:17		Jaswal	OK
48	Q3732-01DL	HD-01-11-26-2025DL	SAM	12/01/25 17:21		Jaswal	OK
49	CCV04	CCV04	CCV	12/01/25 17:25		Jaswal	OK
50	CCB04	CCB04	CCB	12/01/25 17:29		Jaswal	OK
51	Q3733-01DL	SU-04-11-26-2025DL	SAM	12/01/25 17:34		Jaswal	OK
52	Q3735-01DL	BU-3-112625DL	SAM	12/01/25 17:38		Jaswal	OK
53	Q3736-01DL	D1DL	SAM	12/01/25 17:42		Jaswal	OK
54	Q3736-02DL	D1DL	SAM	12/01/25 17:46	NOT USE	Jaswal	Not Ok
55	Q3739-01DL	GSB1ADL	SAM	12/01/25 17:50		Jaswal	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB138072

Review By	Janvi	Review On	12/3/2025 10:04:55 AM
Supervise By	jaswal	Supervise On	12/3/2025 10:06:27 PM
STD. NAME	STD REF.#		
ICAL Standard	MP88101,MP88123,MP88121,MP88120,MP88119,MP88118		
ICV Standard	MP88124,MP88123		
CCV Standard	MP88127		
ICSA Standard	MP88125,MP88126		
CRI Standard	MP88120		
LCS Standard			
Chk Standard	MP88128,MP88129,MP88130,MP88131,MP88132		

56	Q3739-02DL	GSB1BDL	SAM	12/01/25 17:55	Cr High	Jaswal	Dilution
57	Q3739-03DL	GSB2ADL	SAM	12/01/25 17:59		Jaswal	OK
58	Q3739-04DL	GSB2BDL	SAM	12/01/25 18:03		Jaswal	OK
59	Q3740-01DL	WC1DL	SAM	12/01/25 18:07	Cr High	Jaswal	Dilution
60	Q3740-01DUPDL	WC1DUPDL	DUP	12/01/25 18:12	Cr High	Jaswal	Dilution
61	CCV05	CCV05	CCV	12/01/25 18:16		Jaswal	OK
62	CCB05	CCB05	CCB	12/01/25 18:20		Jaswal	OK
63	Q3740-01LDL	WC1LDL	SD	12/01/25 18:25		Jaswal	OK
64	Q3740-01MSDL	WC1MSDL	MS	12/01/25 18:29	Cr High	Jaswal	Dilution
65	Q3740-01MSDDL	WC1MSDDL	MSD	12/01/25 18:33	Cr High	Jaswal	Dilution
66	Q3740-01ADL	WC1ADL	PS	12/01/25 18:37	0.1 ML OF EACH M6008 AND M6017 IN 10ML SAMPLE.	Jaswal	OK
67	Q3737-01	MW3	SAM	12/01/25 18:42		Jaswal	OK
68	Q3737-02	MW4	SAM	12/01/25 18:46		Jaswal	OK
69	Q3737-02DUP	MW4DUP	DUP	12/01/25 18:50		Jaswal	OK
70	Q3737-02L	MW4L	SD	12/01/25 18:55		Jaswal	OK
71	Q3737-02MS	MW4MS	MS	12/01/25 18:59		Jaswal	OK
72	Q3737-02MSD	MW4MSD	MSD	12/01/25 19:03		Jaswal	OK
73	CCV06	CCV06	CCV	12/01/25 19:07		Jaswal	OK
74	CCB06	CCB06	CCB	12/01/25 19:11		Jaswal	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB138072

Review By	Janvi	Review On	12/3/2025 10:04:55 AM
Supervise By	jaswal	Supervise On	12/3/2025 10:06:27 PM
STD. NAME	STD REF.#		
ICAL Standard	MP88101,MP88123,MP88121,MP88120,MP88119,MP88118		
ICV Standard	MP88124,MP88123		
CCV Standard	MP88127		
ICSA Standard	MP88125,MP88126		
CRI Standard	MP88120		
LCS Standard			
Chk Standard	MP88128,MP88129,MP88130,MP88131,MP88132		

75	Q3737-02A	MW4A	PS	12/01/25 19:16	0.1 ML OF EACH M6008 AND M6017 IN 10ML SAMPLE.	Jaswal	OK
76	Q3740-02DL	WC1DL	SAM	12/01/25 19:20	Not Use	Jaswal	Not Ok
77	CCV07	CCV07	CCV	12/01/25 19:24		Jaswal	OK
78	CCB07	CCB07	CCB	12/01/25 19:28		Jaswal	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: 12/01/2025 Time : 11:20 Temp : 96 °C

End Digest Date: 12/01/2025 Time : 14:25 Temp : 96 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: *SRS*

Supervisor Signature: *SA*

Temp : 1. 96°C 2. N/A

Standard Name	MLS USED	STD REF. # FROM LOG
LFS-1	0.25	M6209
LFS-2	0.25	M6201
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	M6187
1:1 HCL	5.00	MP87148
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
12/01/25 15:25	<i>SRS met dig</i>	<i>SA (met dig)</i>
	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
PB170768BL	PBW768	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	1
PB170768BS	LCS768	<2	50	25	Colorless	Colorless	Clear	Clear	M6209,M6201	2
Q3731-01	W1	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	3
Q3737-01	MW3	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	4
Q3737-02	MW4	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	5
Q3737-02MS	MW4MS	<2	50	25	Colorless	Colorless	Clear	Clear	M6209,M6201	7
Q3737-02MSD	MW4MSD	<2	50	25	Colorless	Colorless	Clear	Clear	M6209,M6201	8
Q3737-02DUP	MW4DUP	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	6



SAMPLE DATA

Report of Analysis

Client: G Environmental
Project: Buff
Client Sample ID: MW3
Lab Sample ID: Q3737-01

Date Collected: 11/25/25 09:30
Date Received: 11/26/25
SDG No.: Q3737
Matrix: WATER
% Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	268		1	1.00	2.00	mg/L		12/03/25 10:44	SM 2320 B-21
Sulfate	128	OR	1	0.46	3.00	mg/L		12/02/25 12:31	300.0

Comments: The alkalinity to pH 4.40=268 mg CaCO₃/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N = Spiked sample recovery not within control limits

Report of Analysis

Client: G Environmental
Project: Buff
Client Sample ID: MW3DL
Lab Sample ID: Q3737-01DL

Date Collected: 11/25/25 09:30
Date Received: 11/26/25
SDG No.: Q3737
Matrix: WATER
% Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Sulfate	110	D	10	4.60	30.0	mg/L		12/02/25 14:05	300.0

Comments: _____

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N = Spiked sample recovery not within control limits

Report of Analysis

Client: G Environmental
Project: Buff
Client Sample ID: MW4
Lab Sample ID: Q3737-02

Date Collected: 11/25/25 10:05
Date Received: 11/26/25
SDG No.: Q3737
Matrix: WATER
% Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	31.6		1	1.00	2.00	mg/L		12/03/25 10:53	SM 2320 B-21
Sulfate	1210	OR	1	0.46	3.00	mg/L		12/02/25 12:58	300.0

Comments: The alkalinity to pH 4.43=31.6 mg CaCO₃/L

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client: G Environmental
Project: Buff
Client Sample ID: MW4DL
Lab Sample ID: Q3737-02DL

Date Collected: 11/25/25 10:05
Date Received: 11/26/25
SDG No.: Q3737
Matrix: WATER
% Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Sulfate	824	D	50	23.0	150	mg/L		12/02/25 14:26	300.0

Comments: _____

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N = Spiked sample recovery not within control limits



QC RESULT SUMMARY

Initial and Continuing Calibration Verification

Client: G Environmental

SDG No.: Q3737

Project: Buff

RunNo.: LB138084

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
Bromide	mg/L	10.1	10	101	90-110	12/01/2025
Chloride	mg/L	3	3	100	90-110	12/01/2025
Fluoride	mg/L	2	2	100	90-110	12/01/2025
Nitrite	mg/L	3	3	100	90-110	12/01/2025
Nitrate	mg/L	2.5	2.5	100	90-110	12/01/2025
Sulfate	mg/L	14.9	15	99	90-110	12/01/2025
Orthophosphate as P	mg/L	5.4	5	108	90-110	12/01/2025
Sample ID: CCV1						
Bromide	mg/L	10.5	10	105	90-110	12/02/2025
Chloride	mg/L	3.1	3	103	90-110	12/02/2025
Fluoride	mg/L	2.1	2	105	90-110	12/02/2025
Nitrite	mg/L	3.1	3	103	90-110	12/02/2025
Nitrate	mg/L	2.6	2.5	104	90-110	12/02/2025
Sulfate	mg/L	15.5	15	103	90-110	12/02/2025
Orthophosphate as P	mg/L	5.1	5	102	90-110	12/02/2025
Sample ID: CCV2						
Bromide	mg/L	10.6	10	106	90-110	12/02/2025
Chloride	mg/L	3.2	3	107	90-110	12/02/2025
Fluoride	mg/L	2.1	2	105	90-110	12/02/2025
Nitrite	mg/L	3.2	3	107	90-110	12/02/2025
Nitrate	mg/L	2.6	2.5	104	90-110	12/02/2025
Sulfate	mg/L	15.5	15	103	90-110	12/02/2025
Orthophosphate as P	mg/L	5.8	5	116	90-110	12/02/2025

Initial and Continuing Calibration Blank Summary

Client: G Environmental

SDG No.: Q3737

Project: Buff

RunNo.: LB138084

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	12/01/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	12/01/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	12/01/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	12/01/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	12/01/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	12/01/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	12/01/2025
Sample ID: CCB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	12/02/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	12/02/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	12/02/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	12/02/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	12/02/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	12/02/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	12/02/2025
Sample ID: CCB2							
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	12/02/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	12/02/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	12/02/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	12/02/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	12/02/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	12/02/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	12/02/2025

Preparation Blank Summary

Client: G Environmental

SDG No.: Q3737

Project: Buff

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB138084BLW							
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	12/02/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	12/02/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	12/02/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	12/02/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	12/02/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	12/02/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	12/02/2025
Sample ID: LB138090BLW							
Alkalinity	mg/L	< 1.0000	1.0000	U	1	2	12/03/2025

Matrix Spike Summary

Client:	G Environmental	SDG No.:	Q3737
Project:	Buff	Sample ID:	Q3737-02
Client ID:	MW4MS	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	10.9		0.40	J	10	1	105		12/02/2025
Chloride	mg/L	80-120	19.6	OR	15.8	OR	3	1	127	*	12/02/2025
Fluoride	mg/L	80-120	2.30		0.11	U	2	1	115		12/02/2025
Nitrite	mg/L	80-120	3.40		412	OR	3	1	-13620	*	12/02/2025
Nitrate	mg/L	80-120	3.80		1.20		2.5	1	104		12/02/2025
Sulfate	mg/L	80-120	1180	OR	1210	OR	15	1	-200	*	12/02/2025
Orthophosphate as P	mg/L	80-120	5.40		0.34	U	5	1	108		12/02/2025

Matrix Spike Summary

Client:	G Environmental	SDG No.:	Q3737
Project:	Buff	Sample ID:	Q3737-02
Client ID:	MW4MSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	10.5		0.40	J	10	1	101		12/02/2025
Chloride	mg/L	80-120	19.5	OR	15.8	OR	3	1	123	*	12/02/2025
Fluoride	mg/L	80-120	2.30		0.11	U	2	1	115		12/02/2025
Nitrite	mg/L	80-120	3.30		412	OR	3	1	-13623	*	12/02/2025
Nitrate	mg/L	80-120	3.70		1.20		2.5	1	100		12/02/2025
Sulfate	mg/L	80-120	1160	OR	1210	OR	15	1	-333	*	12/02/2025
Orthophosphate as P	mg/L	80-120	5.70		0.34	U	5	1	114		12/02/2025

Duplicate Sample Summary

Client:	G Environmental	SDG No.:	Q3737
Project:	Buff	Sample ID:	Q3737-01
Client ID:	MW3DUP	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Alkalinity	mg/L	+/-20	268		267		1	0		12/03/2025

Duplicate Sample Summary

Client: G Environmental	SDG No.: Q3737
Project: Buff	Sample ID: Q3737-02
Client ID: MW4MSD	Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Fluoride	mg/L	+/-20	2.30		2.30		1	0		12/02/2025
Chloride	mg/L	+/-20	19.6	OR	19.5	OR	1	1		12/02/2025
Sulfate	mg/L	+/-20	1180	OR	1160	OR	1	2		12/02/2025
Nitrate	mg/L	+/-20	3.80		3.70		1	3		12/02/2025
Nitrite	mg/L	+/-20	3.40		3.30		1	3		12/02/2025
Bromide	mg/L	+/-20	10.9		10.5		1	4		12/02/2025
Orthophosphate as P	mg/L	+/-20	5.40		5.70		1	5		12/02/2025

Laboratory Control Sample Summary

Client: G Environmental

SDG No.: Q3737

Project: Buff

Run No.: LB138084

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB138084BSW							
Bromide	mg/L	10	10.7		107	1	90-110	12/02/2025
Chloride	mg/L	3	3.20		107	1	90-110	12/02/2025
Fluoride	mg/L	2	2.10		105	1	90-110	12/02/2025
Nitrite	mg/L	3	3.20		107	1	90-110	12/02/2025
Nitrate	mg/L	2.5	2.70		108	1	90-110	12/02/2025
Sulfate	mg/L	15	16.1		107	1	90-110	12/02/2025
Orthophosphate as P	mg/L	5	5.50		110	1	90-110	12/02/2025

Laboratory Control Sample Summary

Client: G Environmental

SDG No.: Q3737

Project: Buff

Run No.: LB138090

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB138090BSW							
Alkalinity	mg/L	50	46.8		94	1	80-120	12/03/2025

Instrument ID: IC-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB138084

Review By	rubina	Review On	12/3/2025 12:15:39 PM
Supervise By	Iwona	Supervise On	12/3/2025 12:54:42 PM
SubDirectory	LB138084	Test	Anions
STD. NAME	STD REF.#		
ICAL Standard	WP115865,WP115866,WP115867,WP115868,WP115869,WP115870,WP115871		
ICV Standard	WP115872		
CCV Standard	WP115878		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP115879		
Chk Standard	WP115873,WP115874		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	STD1	STD1	CAL1	12/01/25 11:48	All standards, samples, and	RM/IZ	OK
2	STD2	STD2	CAL2	12/01/25 12:09	QC are filtered through	RM/IZ	OK
3	STD3	STD3	CAL3	12/01/25 12:52	0.45um, filter lot W3160	RM/IZ	OK
4	STD4	STD4	CAL4	12/01/25 13:13		RM/IZ	OK
5	STD5	STD5	CAL5	12/01/25 13:35		RM/IZ	OK
6	STD6	STD6	CAL6	12/01/25 13:57		RM/IZ	OK
7	STD7	STD7	CAL7	12/01/25 14:18		RM/IZ	OK
8	ICV1	ICV1	ICV	12/01/25 14:40		RM/IZ	OK
9	ICB1	ICB1	ICB	12/01/25 14:58		RM/IZ	OK
10	CCV1	CCV1	CCV	12/02/25 11:05		RM/IZ	OK
11	CCB1	CCB1	CCB	12/02/25 11:26		RM/IZ	OK
12	LB138084BLW	LB138084BLW	MB	12/02/25 11:48		RM/IZ	OK
13	LB138084BSW	LB138084BSW	LCS	12/02/25 12:09		RM/IZ	OK
14	Q3737-01	MW3	SAM	12/02/25 12:31	SO4 high	RM/IZ	Dilution
15	Q3737-02	MW4	SAM	12/02/25 12:58	SO4 high	RM/IZ	Dilution
16	Q3737-02MS	MW4MS	MS	12/02/25 13:21	9.5ml of sample, 0.5mL W3092	RM/IZ	OK
17	Q3737-02MSD	MW4MSD	MSD	12/02/25 13:43	9.5ml of sample, 0.5mL W3092	RM/IZ	OK
18	Q3737-01DL	MW3DL	SAM	12/02/25 14:05	10X for SO4	RM/IZ	Confirms

Instrument ID: IC-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB138084

Review By	rubina	Review On	12/3/2025 12:15:39 PM
Supervise By	Iwona	Supervise On	12/3/2025 12:54:42 PM
SubDirectory	LB138084	Test	Anions

STD. NAME	STD REF.#
ICAL Standard	WP115865,WP115866,WP115867,WP115868,WP115869,WP115870,WP115871
ICV Standard	WP115872
CCV Standard	WP115878
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP115879
Chk Standard	WP115873,WP115874

19	Q3737-02DL	MW4DL	SAM	12/02/25 14:26	50X for SO4	RM/IZ	Confirms
20	CCV2	CCV2	CCV	12/02/25 14:48		RM/IZ	OK
21	CCB2	CCB2	CCB	12/02/25 15:09		RM/IZ	OK

Instrument ID: TITRATOR

Daily Analysis Runlog For Sequence/QC Batch ID # LB138090

Review By	rubina	Review On	12/3/2025 4:56:22 PM
Supervise By	Iwona	Supervise On	12/4/2025 2:16:21 PM
SubDirectory	LB138090	Test	Alkalinity
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP115894		
Chk Standard	W3217,W3178,W3150		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB138090BLW	LB138090BLW	MB	12/03/25 10:32	pH=4.42	Iwona	OK
2	LB138090BSW	LB138090BSW	LCS	12/03/25 10:36	pH=4.36	Iwona	OK
3	Q3737-01	MW3	SAM	12/03/25 10:44	pH=4.40	Iwona	OK
4	Q3737-01DUP	MW3DUP	DUP	12/03/25 10:49	pH=4.38	Iwona	OK
5	Q3737-02	MW4	SAM	12/03/25 10:53	pH=4.43	Iwona	OK

LAB CHRONICLE

OrderID:	Q3737	OrderDate:	11/26/2025 4:01:00 PM
Client:	G Environmental	Project:	Buff
Contact:	Gary Landis	Location:	--Select--,A11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3737-01	MW3	WATER			11/25/25 09:30			11/26/25
			Alkalinity	SM2320 B			12/03/25 10:44	
			Anions Group1	300.0			12/02/25 12:31	
Q3737-01DL	MW3DL	WATER			11/25/25 09:30			11/26/25
			Anions Group1	300.0			12/02/25 14:05	
Q3737-02	MW4	WATER			11/25/25 10:05			11/26/25
			Alkalinity	SM2320 B			12/03/25 10:53	
			Anions Group1	300.0			12/02/25 12:58	
Q3737-02DL	MW4DL	WATER			11/25/25 10:05			11/26/25
			Anions Group1	300.0			12/02/25 14:26	



SHIPPING DOCUMENTS

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: G ENVIRONMENTAL
ADDRESS: 8 CARRIAGE
CITY: Succasunna STATE: NJ ZIP:
ATTENTION:
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Buff
PROJECT NO.: LOCATION: NJ
PROJECT MANAGER:
e-mail:
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: G ENVIRONMENTAL PO#:
ADDRESS: 8 CARRIAGE
CITY: Succasunna STATE: NJ ZIP:
ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) 5/20/2021 DAYS*
HARDCOPY (DATA PACKAGE): 5/20/2021 DAYS*
EDD: 5/20/2021 DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☒ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other NJ DEP
☒ EDD FORMAT hazmat excel

50 mg Na Fe / MW
Sulfate Alkalinity
1 2 3 4 5 6 7 8 9

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	MW3	GW			X 11/25/20	2:30	2		X		X	X					
2.	MW4	GW			X 11/25/20	2:30	2		X		X	X					
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: <u>1/25/20</u>	DATE/TIME: <u>14:22</u>	RECEIVED BY: <u>[Signature]</u>	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>1.6</u> °C
1.		1.	Comments: <u></u>
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	
2.		2.	
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	
3.		3.	

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312