

LAB CHRONICLE

OrderID:	Q2600	OrderDate:	7/14/2025 2:21:01 PM
Client:	T&A Construction Inc	Project:	Kingsland Point Park Water Main
Contact:	Garrett Johnson	Location:	D41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2600-01	TRENCH	SOIL			07/14/25			07/14/25
			Mercury	7471B		07/15/25	07/16/25	
			Metals ICP-TAL	6010D		07/14/25	07/17/25	
Q2600-02	TRENCH	TCLP			07/14/25			07/14/25
			TCLP ICP Metals	6010D		07/16/25	07/17/25	
			TCLP Mercury	7470A		07/16/25	07/17/25	
Q2600-05	STOCK-PILE	SOIL			07/14/25			07/14/25
			Mercury	7471B		07/15/25	07/16/25	
			Metals ICP-TAL	6010D		07/14/25	07/17/25	
Q2600-06	STOCK-PILE	TCLP			07/14/25			07/14/25
			TCLP ICP Metals	6010D		07/16/25	07/17/25	
			TCLP Mercury	7470A		07/16/25	07/17/25	
Q2600-09	END-OF-TRENCH	SOIL			07/14/25			07/14/25
			Mercury	7471B		07/15/25	07/16/25	
			Metals ICP-TAL	6010D		07/14/25	07/17/25	
Q2600-10	END-OF-TRENCH	TCLP			07/14/25			07/14/25
			TCLP ICP Metals	6010D		07/16/25	07/17/25	
			TCLP Mercury	7470A		07/16/25	07/17/25	

Hit Summary Sheet
SW-846

SDG No.: Q2600

Order ID: Q2600

Client: T&A Construction Inc

Project ID: Kingsland Point Park Water Main

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TRENCH								
Q2600-02	TRENCH	TCLP	Arsenic	34.0	J	25.6	100	ug/L
Q2600-02	TRENCH	TCLP	Barium	3240		72.8	500	ug/L
Q2600-02	TRENCH	TCLP	Lead	535		11.5	60.0	ug/L
Client ID : STOCK-PILE								
Q2600-06	STOCK-PILE	TCLP	Arsenic	40.1	J	25.6	100	ug/L
Q2600-06	STOCK-PILE	TCLP	Barium	2090		72.8	500	ug/L
Q2600-06	STOCK-PILE	TCLP	Cadmium	6.02	J	2.50	30.0	ug/L
Q2600-06	STOCK-PILE	TCLP	Lead	1390		11.5	60.0	ug/L
Client ID : END-OF-TRENCH								
Q2600-10	END-OF-TRENCH	TCLP	Barium	1420		72.8	500	ug/L
Q2600-10	END-OF-TRENCH	TCLP	Cadmium	21.1	J	2.50	30.0	ug/L
Q2600-10	END-OF-TRENCH	TCLP	Lead	2150		11.5	60.0	ug/L



SAMPLE DATA

Report of Analysis

Client:	T&A Construction Inc	Date Collected:	07/14/25
Project:	Kingsland Point Park Water Main	Date Received:	07/14/25
Client Sample ID:	TRENCH	SDG No.:	Q2600
Lab Sample ID:	Q2600-02	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	34.0	J	1	25.6	100	ug/L	07/16/25 12:30	07/17/25 14:36	6010D	SW3050
7440-39-3	Barium	3240		1	72.8	500	ug/L	07/16/25 12:30	07/17/25 14:36	6010D	SW3050
7440-43-9	Cadmium	2.50	U	1	2.50	30.0	ug/L	07/16/25 12:30	07/17/25 14:36	6010D	SW3050
7440-47-3	Chromium	10.6	U	1	10.6	50.0	ug/L	07/16/25 12:30	07/17/25 14:36	6010D	SW3050
7439-92-1	Lead	535		1	11.5	60.0	ug/L	07/16/25 12:30	07/17/25 14:36	6010D	SW3050
7439-97-6	Mercury	0.76	UN	1	0.76	2.00	ug/L	07/16/25 14:40	07/17/25 10:50	7470A	
7782-49-2	Selenium	48.2	U	1	48.2	100	ug/L	07/16/25 12:30	07/17/25 14:36	6010D	SW3050
7440-22-4	Silver	8.10	U	1	8.10	50.0	ug/L	07/16/25 12:30	07/17/25 14:36	6010D	SW3050

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

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 D = Dilution
 Q = indicates LCS control criteria did not meet requirements

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

Report of Analysis

Client:	T&A Construction Inc	Date Collected:	07/14/25
Project:	Kingsland Point Park Water Main	Date Received:	07/14/25
Client Sample ID:	STOCK-PILE	SDG No.:	Q2600
Lab Sample ID:	Q2600-06	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	40.1	J	1	25.6	100	ug/L	07/16/25 12:30	07/17/25 14:41	6010D	SW3050
7440-39-3	Barium	2090		1	72.8	500	ug/L	07/16/25 12:30	07/17/25 14:41	6010D	SW3050
7440-43-9	Cadmium	6.02	J	1	2.50	30.0	ug/L	07/16/25 12:30	07/17/25 14:41	6010D	SW3050
7440-47-3	Chromium	10.6	U	1	10.6	50.0	ug/L	07/16/25 12:30	07/17/25 14:41	6010D	SW3050
7439-92-1	Lead	1390		1	11.5	60.0	ug/L	07/16/25 12:30	07/17/25 14:41	6010D	SW3050
7439-97-6	Mercury	0.76	UN	1	0.76	2.00	ug/L	07/16/25 14:40	07/17/25 10:52	7470A	
7782-49-2	Selenium	48.2	U	1	48.2	100	ug/L	07/16/25 12:30	07/17/25 14:41	6010D	SW3050
7440-22-4	Silver	8.10	U	1	8.10	50.0	ug/L	07/16/25 12:30	07/17/25 14:41	6010D	SW3050

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

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
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J = Estimated Value
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 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:	T&A Construction Inc	Date Collected:	07/14/25
Project:	Kingsland Point Park Water Main	Date Received:	07/14/25
Client Sample ID:	END-OF-TRENCH	SDG No.:	Q2600
Lab Sample ID:	Q2600-10	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	25.6	U	1	25.6	100	ug/L	07/16/25 12:30	07/17/25 14:45	6010D	SW3050
7440-39-3	Barium	1420		1	72.8	500	ug/L	07/16/25 12:30	07/17/25 14:45	6010D	SW3050
7440-43-9	Cadmium	21.1	J	1	2.50	30.0	ug/L	07/16/25 12:30	07/17/25 14:45	6010D	SW3050
7440-47-3	Chromium	10.6	U	1	10.6	50.0	ug/L	07/16/25 12:30	07/17/25 14:45	6010D	SW3050
7439-92-1	Lead	2150		1	11.5	60.0	ug/L	07/16/25 12:30	07/17/25 14:45	6010D	SW3050
7439-97-6	Mercury	0.76	UN	1	0.76	2.00	ug/L	07/16/25 14:40	07/17/25 10:55	7470A	
7782-49-2	Selenium	48.2	U	1	48.2	100	ug/L	07/16/25 12:30	07/17/25 14:45	6010D	SW3050
7440-22-4	Silver	8.10	U	1	8.10	50.0	ug/L	07/16/25 12:30	07/17/25 14:45	6010D	SW3050

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

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 D = Dilution
 Q = indicates LCS control criteria did not meet requirements

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



METAL CALIBRATION DATA

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: T&A Construction Inc

SDG No.: Q2600

Contract: TACO01

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV31	Mercury	3.70	4.0	92	90 - 110	CV	07/17/2025	10:07	LB136516

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: T&A Construction Inc

SDG No.: Q2600

Contract: TACO01

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV18	Mercury	5.00	5.0	100	90 - 110	CV	07/17/2025	10:14	LB136516
CCV19	Mercury	5.17	5.0	103	90 - 110	CV	07/17/2025	11:03	LB136516
CCV20	Mercury	5.33	5.0	106	90 - 110	CV	07/17/2025	11:30	LB136516
CCV21	Mercury	5.21	5.0	104	90 - 110	CV	07/17/2025	11:53	LB136516

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: T&A Construction Inc

SDG No.: Q2600

Contract: TACO01

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Arsenic	3980	4000	100	90 - 110	P	07/17/2025	13:30	LB136533
	Barium	8280	8000	104	90 - 110	P	07/17/2025	13:30	LB136533
	Cadmium	1980	2000	99	90 - 110	P	07/17/2025	13:30	LB136533
	Chromium	865	800	108	90 - 110	P	07/17/2025	13:30	LB136533
	Lead	3890	4000	97	90 - 110	P	07/17/2025	13:30	LB136533
	Selenium	4020	4000	101	90 - 110	P	07/17/2025	13:30	LB136533
	Silver	1070	1000	107	90 - 110	P	07/17/2025	13:30	LB136533

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: T&A Construction Inc

SDG No.: Q2600

Contract: TACO01

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Arsenic	23.3	20.0	117	80 - 120	P	07/17/2025	13:37	LB136533
	Barium	104	100	104	80 - 120	P	07/17/2025	13:37	LB136533
	Cadmium	5.95	6.0	99	80 - 120	P	07/17/2025	13:37	LB136533
	Chromium	9.40	10.0	94	80 - 120	P	07/17/2025	13:37	LB136533
	Lead	9.70	12.0	81	80 - 120	P	07/17/2025	13:37	LB136533
	Selenium	19.4	20.0	97	80 - 120	P	07/17/2025	13:37	LB136533
	Silver	11.0	10.0	110	80 - 120	P	07/17/2025	13:37	LB136533

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client:	<u>T&A Construction Inc</u>	SDG No.:	<u>Q2600</u>
Contract:	<u>TACO01</u>	Lab Code:	<u>ACE</u>
Initial Calibration Source:	<u>EPA</u>		
Continuing Calibration Source:	<u>Inorganic Ventures</u>		

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Arsenic	5140	5000	103	90 - 110	P	07/17/2025	14:20	LB136533
	Barium	10400	10000	104	90 - 110	P	07/17/2025	14:20	LB136533
	Cadmium	2480	2500	99	90 - 110	P	07/17/2025	14:20	LB136533
	Chromium	948	1000	95	90 - 110	P	07/17/2025	14:20	LB136533
	Lead	4940	5000	99	90 - 110	P	07/17/2025	14:20	LB136533
	Selenium	5190	5000	104	90 - 110	P	07/17/2025	14:20	LB136533
	Silver	1270	1250	101	90 - 110	P	07/17/2025	14:20	LB136533
CCV02	Arsenic	5110	5000	102	90 - 110	P	07/17/2025	14:58	LB136533
	Barium	10600	10000	106	90 - 110	P	07/17/2025	14:58	LB136533
	Cadmium	2440	2500	98	90 - 110	P	07/17/2025	14:58	LB136533
	Chromium	947	1000	95	90 - 110	P	07/17/2025	14:58	LB136533
	Lead	4870	5000	97	90 - 110	P	07/17/2025	14:58	LB136533
	Selenium	5190	5000	104	90 - 110	P	07/17/2025	14:58	LB136533
	Silver	1290	1250	103	90 - 110	P	07/17/2025	14:58	LB136533
CCV03	Arsenic	5100	5000	102	90 - 110	P	07/17/2025	15:50	LB136533
	Barium	10500	10000	105	90 - 110	P	07/17/2025	15:50	LB136533
	Cadmium	2440	2500	98	90 - 110	P	07/17/2025	15:50	LB136533
	Chromium	940	1000	94	90 - 110	P	07/17/2025	15:50	LB136533
	Lead	4870	5000	98	90 - 110	P	07/17/2025	15:50	LB136533
	Selenium	5160	5000	103	90 - 110	P	07/17/2025	15:50	LB136533
	Silver	1270	1250	102	90 - 110	P	07/17/2025	15:50	LB136533
CCV04	Arsenic	5100	5000	102	90 - 110	P	07/17/2025	16:42	LB136533
	Barium	10400	10000	104	90 - 110	P	07/17/2025	16:42	LB136533
	Cadmium	2430	2500	97	90 - 110	P	07/17/2025	16:42	LB136533
	Chromium	923	1000	92	90 - 110	P	07/17/2025	16:42	LB136533
	Lead	4850	5000	97	90 - 110	P	07/17/2025	16:42	LB136533
	Selenium	5170	5000	103	90 - 110	P	07/17/2025	16:42	LB136533
	Silver	1250	1250	100	90 - 110	P	07/17/2025	16:42	LB136533
CCV05	Arsenic	5040	5000	101	90 - 110	P	07/17/2025	17:58	LB136533
	Barium	10700	10000	108	90 - 110	P	07/17/2025	17:58	LB136533
	Cadmium	2410	2500	96	90 - 110	P	07/17/2025	17:58	LB136533
	Chromium	933	1000	93	90 - 110	P	07/17/2025	17:58	LB136533
	Lead	4860	5000	97	90 - 110	P	07/17/2025	17:58	LB136533
	Selenium	5120	5000	102	90 - 110	P	07/17/2025	17:58	LB136533

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: T&A Construction Inc

SDG No.: Q2600

Contract: TACO01

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Silver	1280	1250	102	90 - 110	P	07/17/2025	17:58	LB136533
CCV06	Arsenic	5060	5000	101	90 - 110	P	07/17/2025	19:24	LB136533
	Barium	10400	10000	104	90 - 110	P	07/17/2025	19:24	LB136533
	Cadmium	2430	2500	97	90 - 110	P	07/17/2025	19:24	LB136533
	Chromium	909	1000	91	90 - 110	P	07/17/2025	19:24	LB136533
	Lead	4870	5000	97	90 - 110	P	07/17/2025	19:24	LB136533
	Selenium	5120	5000	102	90 - 110	P	07/17/2025	19:24	LB136533
	Silver	1250	1250	100	90 - 110	P	07/17/2025	19:24	LB136533
CCV07	Arsenic	5000	5000	100	90 - 110	P	07/17/2025	20:16	LB136533
	Barium	10400	10000	104	90 - 110	P	07/17/2025	20:16	LB136533
	Cadmium	2410	2500	96	90 - 110	P	07/17/2025	20:16	LB136533
	Chromium	924	1000	92	90 - 110	P	07/17/2025	20:16	LB136533
	Lead	4830	5000	97	90 - 110	P	07/17/2025	20:16	LB136533
	Selenium	5040	5000	101	90 - 110	P	07/17/2025	20:16	LB136533
	Silver	1250	1250	100	90 - 110	P	07/17/2025	20:16	LB136533



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

Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: T&A Construction Inc

SDG No.: Q2600

Contract: TACO01

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
CRA	Mercury	0.23	0.2	116	70 - 130	CV	07/17/2025	10:26	LB136516
CRI01	Arsenic	18.9	20.0	95	65 - 135	P	07/17/2025	13:46	LB136533
	Barium	103	100	103	65 - 135	P	07/17/2025	13:46	LB136533
	Cadmium	5.94	6.0	99	65 - 135	P	07/17/2025	13:46	LB136533
	Chromium	9.06	10.0	91	65 - 135	P	07/17/2025	13:46	LB136533
	Lead	11.1	12.0	92	65 - 135	P	07/17/2025	13:46	LB136533
	Selenium	18.7	20.0	94	65 - 135	P	07/17/2025	13:46	LB136533
	Silver	10.8	10.0	108	65 - 135	P	07/17/2025	13:46	LB136533



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

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:

T&A Construction Inc

SDG No.:

Q2600

Contract:

TACO01

Lab Code:

ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB31	Mercury	0.076	+/-0.2	U	0.20	CV	07/17/2025	10:12	LB136516

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: T&A Construction Inc

SDG No.: Q2600

Contract: TACO01

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB18	Mercury	0.076	+/-0.2	U	0.20	CV	07/17/2025	10:21	LB136516
CCB19	Mercury	0.076	+/-0.2	U	0.20	CV	07/17/2025	11:05	LB136516
CCB20	Mercury	0.076	+/-0.2	U	0.20	CV	07/17/2025	11:35	LB136516
CCB21	Mercury	0.076	+/-0.2	U	0.20	CV	07/17/2025	11:55	LB136516

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: T&A Construction Inc

SDG No.: Q2600

Contract: TACO01

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	5.12	+/-10	U	20.0	P	07/17/2025	13:41	LB136533
	Barium	14.6	+/-50	U	100	P	07/17/2025	13:41	LB136533
	Cadmium	0.50	+/-3	U	6.00	P	07/17/2025	13:41	LB136533
	Chromium	2.12	+/-5	U	10.0	P	07/17/2025	13:41	LB136533
	Lead	2.30	+/-6	U	12.0	P	07/17/2025	13:41	LB136533
	Selenium	9.64	+/-10	U	20.0	P	07/17/2025	13:41	LB136533
	Silver	1.62	+/-5	U	10.0	P	07/17/2025	13:41	LB136533

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: T&A Construction Inc

SDG No.: Q2600

Contract: TACO01

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Arsenic	5.12	+/-10	U	20.0	P	07/17/2025	14:25	LB136533
	Barium	14.6	+/-50	U	100	P	07/17/2025	14:25	LB136533
	Cadmium	0.50	+/-3	U	6.00	P	07/17/2025	14:25	LB136533
	Chromium	2.12	+/-5	U	10.0	P	07/17/2025	14:25	LB136533
	Lead	2.30	+/-6	U	12.0	P	07/17/2025	14:25	LB136533
	Selenium	9.64	+/-10	U	20.0	P	07/17/2025	14:25	LB136533
	Silver	1.62	+/-5	U	10.0	P	07/17/2025	14:25	LB136533
CCB02	Arsenic	5.12	+/-10	U	20.0	P	07/17/2025	15:02	LB136533
	Barium	14.6	+/-50	U	100	P	07/17/2025	15:02	LB136533
	Cadmium	0.50	+/-3	U	6.00	P	07/17/2025	15:02	LB136533
	Chromium	2.12	+/-5	U	10.0	P	07/17/2025	15:02	LB136533
	Lead	2.30	+/-6	U	12.0	P	07/17/2025	15:02	LB136533
	Selenium	9.64	+/-10	U	20.0	P	07/17/2025	15:02	LB136533
	Silver	1.62	+/-5	U	10.0	P	07/17/2025	15:02	LB136533
CCB03	Arsenic	5.12	+/-10	U	20.0	P	07/17/2025	15:56	LB136533
	Barium	14.6	+/-50	U	100	P	07/17/2025	15:56	LB136533
	Cadmium	0.50	+/-3	U	6.00	P	07/17/2025	15:56	LB136533
	Chromium	2.12	+/-5	U	10.0	P	07/17/2025	15:56	LB136533
	Lead	2.30	+/-6	U	12.0	P	07/17/2025	15:56	LB136533
	Selenium	9.64	+/-10	U	20.0	P	07/17/2025	15:56	LB136533
	Silver	1.62	+/-5	U	10.0	P	07/17/2025	15:56	LB136533
CCB04	Arsenic	5.12	+/-10	U	20.0	P	07/17/2025	16:46	LB136533
	Barium	14.6	+/-50	U	100	P	07/17/2025	16:46	LB136533
	Cadmium	0.50	+/-3	U	6.00	P	07/17/2025	16:46	LB136533
	Chromium	2.12	+/-5	U	10.0	P	07/17/2025	16:46	LB136533
	Lead	2.30	+/-6	U	12.0	P	07/17/2025	16:46	LB136533
	Selenium	9.64	+/-10	U	20.0	P	07/17/2025	16:46	LB136533
	Silver	1.62	+/-5	U	10.0	P	07/17/2025	16:46	LB136533
CCB05	Arsenic	5.12	+/-10	U	20.0	P	07/17/2025	18:02	LB136533
	Barium	14.6	+/-50	U	100	P	07/17/2025	18:02	LB136533
	Cadmium	0.50	+/-3	U	6.00	P	07/17/2025	18:02	LB136533
	Chromium	2.12	+/-5	U	10.0	P	07/17/2025	18:02	LB136533
	Lead	2.30	+/-6	U	12.0	P	07/17/2025	18:02	LB136533
	Selenium	9.64	+/-10	U	20.0	P	07/17/2025	18:02	LB136533
	Silver	1.62	+/-5	U	10.0	P	07/17/2025	18:02	LB136533
CCB06	Arsenic	5.12	+/-10	U	20.0	P	07/17/2025	19:28	LB136533
	Barium	14.6	+/-50	U	100	P	07/17/2025	19:28	LB136533
	Cadmium	0.50	+/-3	U	6.00	P	07/17/2025	19:28	LB136533
	Chromium	2.12	+/-5	U	10.0	P	07/17/2025	19:28	LB136533



- 3a -

Client: T&A Construction Inc

SDG No.: Q2600

Contract: TACO01

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Lead	2.30	+/-6	U	12.0	P	07/17/2025	19:28	LB136533
	Selenium	9.64	+/-10	U	20.0	P	07/17/2025	19:28	LB136533
	Silver	1.62	+/-5	U	10.0	P	07/17/2025	19:28	LB136533
CCB07	Arsenic	5.12	+/-10	U	20.0	P	07/17/2025	20:20	LB136533
	Barium	14.6	+/-50	U	100	P	07/17/2025	20:20	LB136533
	Cadmium	0.50	+/-3	U	6.00	P	07/17/2025	20:20	LB136533
	Chromium	2.12	+/-5	U	10.0	P	07/17/2025	20:20	LB136533
	Lead	2.30	+/-6	U	12.0	P	07/17/2025	20:20	LB136533
	Selenium	9.64	+/-10	U	20.0	P	07/17/2025	20:20	LB136533
	Silver	1.62	+/-5	U	10.0	P	07/17/2025	20:20	LB136533

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: T&A Construction Inc

SDG No.: Q2600

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
pb168847TB		WATER		Batch Number:	PB168893		Prep Date:	07/16/2025	
	Mercury	0.76	<2	U	2.00	CV	07/17/2025	11:38	LB136516
Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB168893BL		WATER		Batch Number:	PB168893		Prep Date:	07/16/2025	
	Mercury	0.094	<0.2	J	0.20	CV	07/17/2025	10:41	LB136516

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: T&A Construction Inc

SDG No.: Q2600

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB168847TB		WATER		Batch Number:	PB168888		Prep Date:	07/16/2025	
	Arsenic	25.6	<50	U	100	P	07/17/2025	16:50	LB136533
	Barium	72.8	<250	U	500	P	07/17/2025	16:50	LB136533
	Cadmium	2.50	<15	U	30.0	P	07/17/2025	16:50	LB136533
	Chromium	10.6	<25	U	50.0	P	07/17/2025	16:50	LB136533
	Lead	11.5	<30	U	60.0	P	07/17/2025	16:50	LB136533
	Selenium	48.2	<50	U	100	P	07/17/2025	16:50	LB136533
	Silver	8.10	<25	U	50.0	P	07/17/2025	16:50	LB136533
Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB168888BL		WATER		Batch Number:	PB168888		Prep Date:	07/16/2025	
	Arsenic	25.6	<50	U	100	P	07/17/2025	16:33	LB136533
	Barium	72.8	<250	U	500	P	07/17/2025	16:33	LB136533
	Cadmium	2.50	<15	U	30.0	P	07/17/2025	16:33	LB136533
	Chromium	10.6	<25	U	50.0	P	07/17/2025	16:33	LB136533
	Lead	11.5	<30	U	60.0	P	07/17/2025	16:33	LB136533
	Selenium	48.2	<50	U	100	P	07/17/2025	16:33	LB136533
	Silver	8.10	<25	U	50.0	P	07/17/2025	16:33	LB136533

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: <u>T&A Construction Inc</u>	SDG No.: <u>Q2600</u>
Contract: <u>TACO01</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	Arsenic	9.77			-20	20	07/17/2025	13:51	LB136533
	Barium	1.77	6.0	30	-94	106	07/17/2025	13:51	LB136533
	Cadmium	-1.32	1.0	132	-5	7	07/17/2025	13:51	LB136533
	Chromium	51.4	52.0	99	42	62	07/17/2025	13:51	LB136533
	Lead	-4.86			-12	12	07/17/2025	13:51	LB136533
	Selenium	10.3			-20	20	07/17/2025	13:51	LB136533
	Silver	2.71			-10	10	07/17/2025	13:51	LB136533
ICSAB01	Arsenic	109	104	105	88.4	120	07/17/2025	13:56	LB136533
	Barium	520	537	97	437	637	07/17/2025	13:56	LB136533
	Cadmium	976	972	100	826	1120	07/17/2025	13:56	LB136533
	Chromium	512	542	94	460	624	07/17/2025	13:56	LB136533
	Lead	41.1	49.0	84	37	61	07/17/2025	13:56	LB136533
	Selenium	57.8	46.0	126	26	66	07/17/2025	13:56	LB136533
	Silver	218	201	108	170	232	07/17/2025	13:56	LB136533



METAL QC DATA

metals
- 5a -
MATRIX SPIKE SUMMARY

client: <u>T&A Construction Inc</u>	level: <u>low</u>	sdg no.: <u>Q2600</u>
contract: <u>TACO01</u>		lab code: <u>ACE</u>
matrix: <u>Water</u>	sample id: <u>Q2614-06</u>	client id: <u>HR-MCN-COMP-01MS</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>Q2614-06MS</u>	Percent Solids for Spike Sample: <u>NA</u>

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	75 - 125	4090		100	U	4000	102		P
Barium	ug/L	75 - 125	2000		777		1000	122		P
Cadmium	ug/L	75 - 125	964		30.0	U	1000	96		P
Chromium	ug/L	75 - 125	1800		50.0	U	2000	90		P
Lead	ug/L	75 - 125	4620		60.0	U	5000	92		P
Mercury	ug/L	75 - 125	26.6		2.00	U	40.0	66	N	CV
Selenium	ug/L	75 - 125	10400		100	U	10000	104		P
Silver	ug/L	75 - 125	378		50.0	U	380	100		P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: <u>T&A Construction Inc</u>	level: <u>low</u>	sdg no.: <u>Q2600</u>
contract: <u>TACO01</u>		lab code: <u>ACE</u>
matrix: <u>Water</u>	sample id: <u>Q2614-06</u>	client id: <u>HR-MCN-COMP-01MSD</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>Q2614-06MSD</u>	Percent Solids for Spike Sample: <u>NA</u>

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	75 - 125	4040		100	U	4000	101		P
Barium	ug/L	75 - 125	1930		777		1000	115		P
Cadmium	ug/L	75 - 125	945		30.0	U	1000	94		P
Chromium	ug/L	75 - 125	1780		50.0	U	2000	89		P
Lead	ug/L	75 - 125	4520		60.0	U	5000	90		P
Mercury	ug/L	75 - 125	31.5		2.00	U	40.0	79		CV
Selenium	ug/L	75 - 125	10200		100	U	10000	102		P
Silver	ug/L	75 - 125	371		50.0	U	380	98		P



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

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client:

T&A Construction Inc

Contract:

TACO01

Matrix:

Water

Sample ID:

Q2614-06

SDG No.:

Q2600

Lab Code:

ACE

Client ID:

HR-MCN-COMP-01A

Level:

LOW

Spiked ID:

Q2614-06A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	42.6		2.00	U	40.0	106		CV

- A
- B
- C
- D
- E
- F
- G
- H

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client:	<u>T&A Construction Inc</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q2600</u>
Contract:	<u>TACO01</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Water</u>	Sample ID:	<u>Q2614-06</u>	Client ID:	<u>HR-MCN-COMP-01DUP</u>
Percent Solids for Sample:	NA	Duplicate ID	Q2614-06DUP	Percent Solids for Spike Sample:	NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	100	U	100	U			P
Barium	ug/L	20	777		795		2		P
Cadmium	ug/L	20	30.0	U	30.0	U			P
Chromium	ug/L	20	50.0	U	50.0	U			P
Lead	ug/L	20	60.0	U	11.8	J	200.0		P
Mercury	ug/L	20	2.00	U	2.00	U			CV
Selenium	ug/L	20	100	U	100	U			P
Silver	ug/L	20	50.0	U	50.0	U			P

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client:	<u>T&A Construction Inc</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q2600</u>
Contract:	<u>TACO01</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Water</u>	Sample ID:	<u>Q2614-06MS</u>	Client ID:	<u>HR-MCN-COMP-01MSD</u>
Percent Solids for Sample:	NA	Duplicate ID	Q2614-06MSD	Percent Solids for Spike Sample:	NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	4090		4040		1		P
Barium	ug/L	20	2000		1930		4		P
Cadmium	ug/L	20	964		945		2		P
Chromium	ug/L	20	1800		1780		1		P
Lead	ug/L	20	4620		4520		2		P
Mercury	ug/L	20	26.6		31.5		17		CV
Selenium	ug/L	20	10400		10200		2		P
Silver	ug/L	20	378		371		2		P

Metals

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client:	<u>T&A Construction Inc</u>	SDG No.:	<u>Q2600</u>
Contract:	<u>TACO01</u>	Lab Code:	<u>ACE</u>

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168888BS							
Arsenic	ug/L	4000	4070		102	80 - 120	P
Barium	ug/L	1000	1050		105	80 - 120	P
Cadmium	ug/L	1000	968		97	80 - 120	P
Chromium	ug/L	2000	1850		92	80 - 120	P
Lead	ug/L	5000	4810		96	80 - 120	P
Selenium	ug/L	10000	10400		104	80 - 120	P
Silver	ug/L	380	384		101	80 - 120	P

Metals

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: T&A Construction Inc

SDG No.: Q2600

Contract: TACO01

Lab Code: ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168893BS Mercury	ug/L	4.0	4.48		112	80 - 120	CV

Metals
-9 -
ICP SERIAL DILUTIONS

SAMPLE NO.

HR-MCN-COMP-01L

Lab Name: Alliance **Contract:** TACO01
Lab Code: ACE **Lb No.:** lb136533 **Lab Sample ID :** Q2614-06L **SDG No.:** Q2600
Matrix (soil/water): Water **Level (low/med):** LOW
Concentration Units: ug/L

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Differ- ence		Q	M
Arsenic	100	U	500	U				P
Barium	777		753	J	3			P
Cadmium	30.0	U	150	U				P
Chromium	50.0	U	250	U				P
Lead	60.0	U	300	U				P
Mercury	2.00	U	10.0	U				CV
Selenium	100	U	500	U				P
Silver	50.0	U	250	U				P



METAL PREPARATION & INSTRUMENT DATA

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: T&A Construction Inc

SDG No.: Q2600

Contract: TACO01

Lab Code: ACE

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: T&A Construction Inc

SDG No.: Q2600

Contract: TACO01

Lab Code: ACE

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: T&A Construction Inc

SDG No.: Q2600

Contract: TACO01

Lab Code: ACE

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: T&A Construction Inc

SDG No.: Q2600

Contract: TACO01

Lab Code: ACE

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: T&A Construction Inc

SDG No.: Q2600

Contract: TACO01

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
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Lead	220.353	0.0000000	-0.0003610	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	-0.0007420	0.0000000	0.0000000	0.0000000

METAL
PREPARATION &
ANALYICAL
SUMMARY

Metals

- 13 -

SAMPLE PREPARATION SUMMARY

Client: T&A Construction Inc

SDG No.: Q2600

Contract: TACO01

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: PB168888							
PB168847TB	PB168847TB	MB	WATER	07/16/2025	5.0	25.0	
PB168888BL	PB168888BL	MB	WATER	07/16/2025	5.0	25.0	
PB168888BS	PB168888BS	LCS	WATER	07/16/2025	5.0	25.0	
Q2600-02	TRENCH	SAM	WATER	07/16/2025	5.0	25.0	
Q2600-06	STOCK-PILE	SAM	WATER	07/16/2025	5.0	25.0	
Q2600-10	END-OF-TRENCH	SAM	WATER	07/16/2025	5.0	25.0	
Q2614-06DUP	HR-MCN-COMP-01DUP	DUP	WATER	07/16/2025	5.0	25.0	
Q2614-06MS	HR-MCN-COMP-01MS	MS	WATER	07/16/2025	5.0	25.0	
Q2614-06MSD	HR-MCN-COMP-01MSD	MSD	WATER	07/16/2025	5.0	25.0	

Metals

- 13 -

SAMPLE PREPARATION SUMMARY

Client: T&A Construction Inc

SDG No.: Q2600

Contract: TACO01

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: PB168893							
pb168847TB	pb168847TB	MB	WATER	07/16/2025	3.0	30.0	
PB168893BL	PB168893BL	MB	WATER	07/16/2025	30.0	30.0	
PB168893BS	PB168893BS	LCS	WATER	07/16/2025	30.0	30.0	
Q2600-02	TRENCH	SAM	WATER	07/16/2025	3.0	30.0	
Q2600-06	STOCK-PILE	SAM	WATER	07/16/2025	3.0	30.0	
Q2600-10	END-OF-TRENCH	SAM	WATER	07/16/2025	3.0	30.0	
Q2614-06DUP	HR-MCN-COMP-01DUP	DUP	WATER	07/16/2025	3.0	30.0	
Q2614-06MS	HR-MCN-COMP-01MS	MS	WATER	07/16/2025	3.0	30.0	
Q2614-06MSD	HR-MCN-COMP-01MSD	MSD	WATER	07/16/2025	3.0	30.0	

metals
- 14 -
ANALYSIS RUN LOG

Client: T&A Construction Inc

Contract: TACO01

Lab code: ACE

Sdg no.: Q2600

Instrument id number: _____

Method: _____

Run number: LB136516

Start date: 07/17/2025

End date: 07/17/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	0953	HG
S0.2	S0.2	1	0955	HG
S2.5	S2.5	1	0957	HG
S5	S5	1	1000	HG
S7.5	S7.5	1	1002	HG
S10	S10	1	1004	HG
ICV31	ICV31	1	1007	HG
ICB31	ICB31	1	1012	HG
CCV18	CCV18	1	1014	HG
CCB18	CCB18	1	1021	HG
CRA	CRA	1	1026	HG
PB168893BL	PB168893BL	1	1041	HG
PB168893BS	PB168893BS	1	1046	HG
Q2600-02	TRENCH	1	1050	HG
Q2600-06	STOCK-PILE	1	1052	HG
Q2600-10	END-OF-TRENCH	1	1055	HG
CCV19	CCV19	1	1103	HG
CCB19	CCB19	1	1105	HG
Q2614-06DUP	HR-MCN-COMP-01DUP	1	1121	HG
Q2614-06MS	HR-MCN-COMP-01MS	1	1123	HG
Q2614-06MSD	HR-MCN-COMP-01MSD	1	1125	HG
CCV20	CCV20	1	1130	HG
CCB20	CCB20	1	1135	HG
pb168847TB	pb168847TB	1	1138	HG
Q2614-06L	HR-MCN-COMP-01L	5	1140	HG
Q2614-06A	HR-MCN-COMP-01A	1	1142	HG
CCV21	CCV21	1	1153	HG
CCB21	CCB21	1	1155	HG

metals
- 14 -
ANALYSIS RUN LOG

Client: T&A Construction Inc

Contract: TACO01

Lab code: ACE

Sdg no.: Q2600

Instrument id number:

Method:

Run number: LB136533

Start date: 07/17/2025

End date: 07/17/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1305	Ag,As,Ba,Cd,Cr,Pb,Se
S1	S1	1	1309	Ag,As,Ba,Cd,Cr,Pb,Se
S2	S2	1	1313	Ag,As,Ba,Cd,Cr,Pb,Se
S3	S3	1	1318	Ag,As,Ba,Cd,Cr,Pb,Se
S4	S4	1	1322	Ag,As,Ba,Cd,Cr,Pb,Se
S5	S5	1	1326	Ag,As,Ba,Cd,Cr,Pb,Se
ICV01	ICV01	1	1330	Ag,As,Ba,Cd,Cr,Pb,Se
LLICV01	LLICV01	1	1337	Ag,As,Ba,Cd,Cr,Pb,Se
ICB01	ICB01	1	1341	Ag,As,Ba,Cd,Cr,Pb,Se
CRI01	CRI01	1	1346	Ag,As,Ba,Cd,Cr,Pb,Se
ICSA01	ICSA01	1	1351	Ag,As,Ba,Cd,Cr,Pb,Se
ICSAB01	ICSAB01	1	1356	Ag,As,Ba,Cd,Cr,Pb,Se
CCV01	CCV01	1	1420	Ag,As,Ba,Cd,Cr,Pb,Se
CCB01	CCB01	1	1425	Ag,As,Ba,Cd,Cr,Pb,Se
Q2600-02	TRENCH	1	1436	Ag,As,Ba,Cd,Cr,Pb,Se
Q2600-06	STOCK-PILE	1	1441	Ag,As,Ba,Cd,Cr,Pb,Se
Q2600-10	END-OF-TRENCH	1	1445	Ag,As,Ba,Cd,Cr,Pb,Se
CCV02	CCV02	1	1458	Ag,As,Ba,Cd,Cr,Pb,Se
CCB02	CCB02	1	1502	Ag,As,Ba,Cd,Cr,Pb,Se
CCV03	CCV03	1	1550	Ag,As,Ba,Cd,Cr,Pb,Se
CCB03	CCB03	1	1556	Ag,As,Ba,Cd,Cr,Pb,Se
Q2614-06DUP	HR-MCN-COMP-01DUP	1	1612	Ag,As,Ba,Cd,Cr,Pb,Se
Q2614-06L	HR-MCN-COMP-01L	5	1617	Ag,As,Ba,Cd,Cr,Pb,Se
Q2614-06MS	HR-MCN-COMP-01MS	1	1621	Ag,As,Ba,Cd,Cr,Pb,Se
Q2614-06MSD	HR-MCN-COMP-01MSD	1	1625	Ag,As,Ba,Cd,Cr,Pb,Se
PB168888BL	PB168888BL	1	1633	Ag,As,Ba,Cd,Cr,Pb,Se
PB168888BS	PB168888BS	1	1638	Ag,As,Ba,Cd,Cr,Pb,Se
CCV04	CCV04	1	1642	Ag,As,Ba,Cd,Cr,Pb,Se
CCB04	CCB04	1	1646	Ag,As,Ba,Cd,Cr,Pb,Se
PB168847TB	PB168847TB	1	1650	Ag,As,Ba,Cd,Cr,Pb,Se
CCV05	CCV05	1	1758	Ag,As,Ba,Cd,Cr,Pb,Se
CCB05	CCB05	1	1802	Ag,As,Ba,Cd,Cr,Pb,Se
CCV06	CCV06	1	1924	Ag,As,Ba,Cd,Cr,Pb,Se
CCB06	CCB06	1	1928	Ag,As,Ba,Cd,Cr,Pb,Se
CCV07	CCV07	1	2016	Ag,As,Ba,Cd,Cr,Pb,Se
CCB07	CCB07	1	2020	Ag,As,Ba,Cd,Cr,Pb,Se