

Hit Summary Sheet SW-846

SDG No.: Q3310 **Order ID:** Q3310
Client: Langan Engineering and Environmental Services, Inc **Project ID:** Con Edison Richmond Terrace

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : SS-01-0-1								
Q3310-01	SS-01-0-1	SOIL	Aluminum	6470		1.23	7.29	mg/Kg
Q3310-01	SS-01-0-1	SOIL	Arsenic	27.1		0.28	1.46	mg/Kg
Q3310-01	SS-01-0-1	SOIL	Barium	230		1.06	7.29	mg/Kg
Q3310-01	SS-01-0-1	SOIL	Beryllium	0.85		0.036	0.44	mg/Kg
Q3310-01	SS-01-0-1	SOIL	Cadmium	1.08		0.035	0.44	mg/Kg
Q3310-01	SS-01-0-1	SOIL	Calcium	6340		16.2	146	mg/Kg
Q3310-01	SS-01-0-1	SOIL	Chromium	51.4		0.069	0.73	mg/Kg
Q3310-01	SS-01-0-1	SOIL	Cobalt	12.0		0.15	2.19	mg/Kg
Q3310-01	SS-01-0-1	SOIL	Copper	108		0.32	1.46	mg/Kg
Q3310-01	SS-01-0-1	SOIL	Iron	40000		5.82	7.29	mg/Kg
Q3310-01	SS-01-0-1	SOIL	Lead	137		0.19	0.88	mg/Kg
Q3310-01	SS-01-0-1	SOIL	Magnesium	8430		17.5	146	mg/Kg
Q3310-01	SS-01-0-1	SOIL	Manganese	1140		0.20	1.46	mg/Kg
Q3310-01	SS-01-0-1	SOIL	Mercury	3.05	D	0.10	0.18	mg/Kg
Q3310-01	SS-01-0-1	SOIL	Nickel	147		0.19	2.92	mg/Kg
Q3310-01	SS-01-0-1	SOIL	Potassium	1010		40.4	146	mg/Kg
Q3310-01	SS-01-0-1	SOIL	Silver	1.15		0.18	0.73	mg/Kg
Q3310-01	SS-01-0-1	SOIL	Sodium	3200		26.0	146	mg/Kg
Q3310-01	SS-01-0-1	SOIL	Vanadium	483		0.37	2.92	mg/Kg
Q3310-01	SS-01-0-1	SOIL	Zinc	392		0.34	2.92	mg/Kg
Client ID : SS-01-1-2								
Q3310-02	SS-01-1-2	SOIL	Aluminum	7490		0.99	5.90	mg/Kg
Q3310-02	SS-01-1-2	SOIL	Arsenic	29.0		0.22	1.18	mg/Kg
Q3310-02	SS-01-1-2	SOIL	Barium	205		0.86	5.90	mg/Kg
Q3310-02	SS-01-1-2	SOIL	Beryllium	0.75		0.030	0.35	mg/Kg
Q3310-02	SS-01-1-2	SOIL	Cadmium	0.77		0.028	0.35	mg/Kg
Q3310-02	SS-01-1-2	SOIL	Calcium	6450		13.1	118	mg/Kg
Q3310-02	SS-01-1-2	SOIL	Chromium	44.7		0.055	0.59	mg/Kg
Q3310-02	SS-01-1-2	SOIL	Cobalt	13.8		0.12	1.77	mg/Kg
Q3310-02	SS-01-1-2	SOIL	Copper	233		0.26	1.18	mg/Kg
Q3310-02	SS-01-1-2	SOIL	Iron	22300		4.71	5.90	mg/Kg
Q3310-02	SS-01-1-2	SOIL	Lead	221		0.15	0.71	mg/Kg
Q3310-02	SS-01-1-2	SOIL	Magnesium	11700		14.2	118	mg/Kg
Q3310-02	SS-01-1-2	SOIL	Manganese	578		0.17	1.18	mg/Kg
Q3310-02	SS-01-1-2	SOIL	Mercury	2.26	D	0.051	0.091	mg/Kg
Q3310-02	SS-01-1-2	SOIL	Nickel	279		0.15	2.36	mg/Kg
Q3310-02	SS-01-1-2	SOIL	Potassium	1090		32.7	118	mg/Kg

Hit Summary Sheet
SW-846

SDG No.: Q3310

Order ID: Q3310

Client: Langan Engineering and Environmental Services, Inc

Project ID: Con Edison Richmond Terrace

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q3310-02	SS-01-1-2	SOIL	Silver	0.54	J	0.14	0.59	mg/Kg
Q3310-02	SS-01-1-2	SOIL	Sodium	3240		21.0	118	mg/Kg
Q3310-02	SS-01-1-2	SOIL	Vanadium	644		0.30	2.36	mg/Kg
Q3310-02	SS-01-1-2	SOIL	Zinc	573		0.27	2.36	mg/Kg
Client ID : SS-01-2-3								
Q3310-03	SS-01-2-3	SOIL	Aluminum	5350		0.93	5.53	mg/Kg
Q3310-03	SS-01-2-3	SOIL	Antimony	5.27		0.24	2.76	mg/Kg
Q3310-03	SS-01-2-3	SOIL	Arsenic	182		0.21	1.11	mg/Kg
Q3310-03	SS-01-2-3	SOIL	Barium	116		0.81	5.53	mg/Kg
Q3310-03	SS-01-2-3	SOIL	Beryllium	1.14		0.028	0.33	mg/Kg
Q3310-03	SS-01-2-3	SOIL	Cadmium	1.18		0.027	0.33	mg/Kg
Q3310-03	SS-01-2-3	SOIL	Calcium	3460		12.3	111	mg/Kg
Q3310-03	SS-01-2-3	SOIL	Chromium	31.5		0.052	0.55	mg/Kg
Q3310-03	SS-01-2-3	SOIL	Cobalt	9.34		0.11	1.66	mg/Kg
Q3310-03	SS-01-2-3	SOIL	Copper	594		0.24	1.11	mg/Kg
Q3310-03	SS-01-2-3	SOIL	Iron	54000		4.41	5.53	mg/Kg
Q3310-03	SS-01-2-3	SOIL	Lead	657		0.14	0.66	mg/Kg
Q3310-03	SS-01-2-3	SOIL	Magnesium	4340		13.3	111	mg/Kg
Q3310-03	SS-01-2-3	SOIL	Manganese	1050		0.16	1.11	mg/Kg
Q3310-03	SS-01-2-3	SOIL	Mercury	1.95	D	0.045	0.080	mg/Kg
Q3310-03	SS-01-2-3	SOIL	Nickel	74.0		0.14	2.21	mg/Kg
Q3310-03	SS-01-2-3	SOIL	Potassium	1210		30.6	111	mg/Kg
Q3310-03	SS-01-2-3	SOIL	Silver	2.19	D	0.27	1.11	mg/Kg
Q3310-03	SS-01-2-3	SOIL	Sodium	1540		19.7	111	mg/Kg
Q3310-03	SS-01-2-3	SOIL	Vanadium	204		0.28	2.21	mg/Kg
Q3310-03	SS-01-2-3	SOIL	Zinc	332		0.25	2.21	mg/Kg



SAMPLE DATA

A

B

C

D

Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc	Date Collected:	10/07/25
Project:	Con Edison Richmond Terrace	Date Received:	10/08/25
Client Sample ID:	SS-01-0-1	SDG No.:	Q3310
Lab Sample ID:	Q3310-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	65.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	6470		1	1.23	7.29	mg/Kg	10/10/25 10:10	10/10/25 14:44	6010D	SW3050
7440-36-0	Antimony	0.32	UN	1	0.32	3.65	mg/Kg	10/10/25 10:10	10/10/25 14:44	6010D	SW3050
7440-38-2	Arsenic	27.1		1	0.28	1.46	mg/Kg	10/10/25 10:10	10/10/25 14:44	6010D	SW3050
7440-39-3	Barium	230		1	1.06	7.29	mg/Kg	10/10/25 10:10	10/10/25 14:44	6010D	SW3050
7440-41-7	Beryllium	0.85		1	0.036	0.44	mg/Kg	10/10/25 10:10	10/10/25 14:44	6010D	SW3050
7440-43-9	Cadmium	1.08		1	0.035	0.44	mg/Kg	10/10/25 10:10	10/10/25 14:44	6010D	SW3050
7440-70-2	Calcium	6340		1	16.2	146	mg/Kg	10/10/25 10:10	10/10/25 14:44	6010D	SW3050
7440-47-3	Chromium	51.4		1	0.069	0.73	mg/Kg	10/10/25 10:10	10/10/25 14:44	6010D	SW3050
7440-48-4	Cobalt	12.0		1	0.15	2.19	mg/Kg	10/10/25 10:10	10/10/25 14:44	6010D	SW3050
7440-50-8	Copper	108	N	1	0.32	1.46	mg/Kg	10/10/25 10:10	10/10/25 14:44	6010D	SW3050
7439-89-6	Iron	40000		1	5.82	7.29	mg/Kg	10/10/25 10:10	10/10/25 14:44	6010D	SW3050
7439-92-1	Lead	137		1	0.19	0.88	mg/Kg	10/10/25 10:10	10/10/25 14:44	6010D	SW3050
7439-95-4	Magnesium	8430		1	17.5	146	mg/Kg	10/10/25 10:10	10/10/25 14:44	6010D	SW3050
7439-96-5	Manganese	1140		1	0.20	1.46	mg/Kg	10/10/25 10:10	10/10/25 14:44	6010D	SW3050
7439-97-6	Mercury	3.05	DN	10	0.10	0.18	mg/Kg	10/09/25 11:40	10/09/25 15:29	7471B	
7440-02-0	Nickel	147		1	0.19	2.92	mg/Kg	10/10/25 10:10	10/10/25 14:44	6010D	SW3050
7440-09-7	Potassium	1010	N	1	40.4	146	mg/Kg	10/10/25 10:10	10/10/25 14:44	6010D	SW3050
7782-49-2	Selenium	0.38	U	1	0.38	1.46	mg/Kg	10/10/25 10:10	10/10/25 14:44	6010D	SW3050
7440-22-4	Silver	1.15		1	0.18	0.73	mg/Kg	10/10/25 10:10	10/10/25 14:44	6010D	SW3050
7440-23-5	Sodium	3200	N	1	26.0	146	mg/Kg	10/10/25 10:10	10/10/25 14:44	6010D	SW3050
7440-28-0	Thallium	0.34	U	1	0.34	2.92	mg/Kg	10/10/25 10:10	10/10/25 14:44	6010D	SW3050
7440-62-2	Vanadium	483		1	0.37	2.92	mg/Kg	10/10/25 10:10	10/10/25 14:44	6010D	SW3050
7440-66-6	Zinc	392		1	0.34	2.92	mg/Kg	10/10/25 10:10	10/10/25 14:44	6010D	SW3050

Color Before:	Brown	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	No
Comments:	METALS-TAL			

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:	Langan Engineering and Environmental Services, Inc	Date Collected:	10/07/25
Project:	Con Edison Richmond Terrace	Date Received:	10/08/25
Client Sample ID:	SS-01-1-2	SDG No.:	Q3310
Lab Sample ID:	Q3310-02	Matrix:	SOIL
Level (low/med):	low	% Solid:	72.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	7490		1	0.99	5.90	mg/Kg	10/10/25 10:10	10/10/25 14:52	6010D	SW3050
7440-36-0	Antimony	0.26	UN	1	0.26	2.95	mg/Kg	10/10/25 10:10	10/10/25 14:52	6010D	SW3050
7440-38-2	Arsenic	29.0		1	0.22	1.18	mg/Kg	10/10/25 10:10	10/10/25 14:52	6010D	SW3050
7440-39-3	Barium	205		1	0.86	5.90	mg/Kg	10/10/25 10:10	10/10/25 14:52	6010D	SW3050
7440-41-7	Beryllium	0.75		1	0.030	0.35	mg/Kg	10/10/25 10:10	10/10/25 14:52	6010D	SW3050
7440-43-9	Cadmium	0.77		1	0.028	0.35	mg/Kg	10/10/25 10:10	10/10/25 14:52	6010D	SW3050
7440-70-2	Calcium	6450		1	13.1	118	mg/Kg	10/10/25 10:10	10/10/25 14:52	6010D	SW3050
7440-47-3	Chromium	44.7		1	0.055	0.59	mg/Kg	10/10/25 10:10	10/10/25 14:52	6010D	SW3050
7440-48-4	Cobalt	13.8		1	0.12	1.77	mg/Kg	10/10/25 10:10	10/10/25 14:52	6010D	SW3050
7440-50-8	Copper	233	N	1	0.26	1.18	mg/Kg	10/10/25 10:10	10/10/25 14:52	6010D	SW3050
7439-89-6	Iron	22300		1	4.71	5.90	mg/Kg	10/10/25 10:10	10/10/25 14:52	6010D	SW3050
7439-92-1	Lead	221		1	0.15	0.71	mg/Kg	10/10/25 10:10	10/10/25 14:52	6010D	SW3050
7439-95-4	Magnesium	11700		1	14.2	118	mg/Kg	10/10/25 10:10	10/10/25 14:52	6010D	SW3050
7439-96-5	Manganese	578		1	0.17	1.18	mg/Kg	10/10/25 10:10	10/10/25 14:52	6010D	SW3050
7439-97-6	Mercury	2.26	DN	5	0.051	0.091	mg/Kg	10/09/25 11:40	10/09/25 15:35	7471B	
7440-02-0	Nickel	279		1	0.15	2.36	mg/Kg	10/10/25 10:10	10/10/25 14:52	6010D	SW3050
7440-09-7	Potassium	1090	N	1	32.7	118	mg/Kg	10/10/25 10:10	10/10/25 14:52	6010D	SW3050
7782-49-2	Selenium	0.31	U	1	0.31	1.18	mg/Kg	10/10/25 10:10	10/10/25 14:52	6010D	SW3050
7440-22-4	Silver	0.54	J	1	0.14	0.59	mg/Kg	10/10/25 10:10	10/10/25 14:52	6010D	SW3050
7440-23-5	Sodium	3240	N	1	21.0	118	mg/Kg	10/10/25 10:10	10/10/25 14:52	6010D	SW3050
7440-28-0	Thallium	0.27	U	1	0.27	2.36	mg/Kg	10/10/25 10:10	10/10/25 14:52	6010D	SW3050
7440-62-2	Vanadium	644		1	0.30	2.36	mg/Kg	10/10/25 10:10	10/10/25 14:52	6010D	SW3050
7440-66-6	Zinc	573		1	0.27	2.36	mg/Kg	10/10/25 10:10	10/10/25 14:52	6010D	SW3050

Color Before:	Brown	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	No
Comments:	METALS-TAL			

U = Not Detected

LOQ = Limit of Quantitation

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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:	Langan Engineering and Environmental Services, Inc	Date Collected:	10/07/25
Project:	Con Edison Richmond Terrace	Date Received:	10/08/25
Client Sample ID:	SS-01-2-3	SDG No.:	Q3310
Lab Sample ID:	Q3310-03	Matrix:	SOIL
Level (low/med):	low	% Solid:	75.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	5350		1	0.93	5.53	mg/Kg	10/10/25 10:10	10/10/25 14:56	6010D	SW3050
7440-36-0	Antimony	5.27	N	1	0.24	2.76	mg/Kg	10/10/25 10:10	10/10/25 14:56	6010D	SW3050
7440-38-2	Arsenic	182		1	0.21	1.11	mg/Kg	10/10/25 10:10	10/10/25 14:56	6010D	SW3050
7440-39-3	Barium	116		1	0.81	5.53	mg/Kg	10/10/25 10:10	10/10/25 14:56	6010D	SW3050
7440-41-7	Beryllium	1.14		1	0.028	0.33	mg/Kg	10/10/25 10:10	10/10/25 14:56	6010D	SW3050
7440-43-9	Cadmium	1.18		1	0.027	0.33	mg/Kg	10/10/25 10:10	10/10/25 14:56	6010D	SW3050
7440-70-2	Calcium	3460		1	12.3	111	mg/Kg	10/10/25 10:10	10/10/25 14:56	6010D	SW3050
7440-47-3	Chromium	31.5		1	0.052	0.55	mg/Kg	10/10/25 10:10	10/10/25 14:56	6010D	SW3050
7440-48-4	Cobalt	9.34		1	0.11	1.66	mg/Kg	10/10/25 10:10	10/10/25 14:56	6010D	SW3050
7440-50-8	Copper	594	N	1	0.24	1.11	mg/Kg	10/10/25 10:10	10/10/25 14:56	6010D	SW3050
7439-89-6	Iron	54000		1	4.41	5.53	mg/Kg	10/10/25 10:10	10/10/25 14:56	6010D	SW3050
7439-92-1	Lead	657		1	0.14	0.66	mg/Kg	10/10/25 10:10	10/10/25 14:56	6010D	SW3050
7439-95-4	Magnesium	4340		1	13.3	111	mg/Kg	10/10/25 10:10	10/10/25 14:56	6010D	SW3050
7439-96-5	Manganese	1050		1	0.16	1.11	mg/Kg	10/10/25 10:10	10/10/25 14:56	6010D	SW3050
7439-97-6	Mercury	1.95	DN	5	0.045	0.080	mg/Kg	10/09/25 11:40	10/09/25 15:37	7471B	
7440-02-0	Nickel	74.0		1	0.14	2.21	mg/Kg	10/10/25 10:10	10/10/25 14:56	6010D	SW3050
7440-09-7	Potassium	1210	N	1	30.6	111	mg/Kg	10/10/25 10:10	10/10/25 14:56	6010D	SW3050
7782-49-2	Selenium	0.29	U	1	0.29	1.11	mg/Kg	10/10/25 10:10	10/10/25 14:56	6010D	SW3050
7440-22-4	Silver	2.19	D	2	0.27	1.11	mg/Kg	10/10/25 10:10	10/10/25 16:57	6010D	SW3050
7440-23-5	Sodium	1540	N	1	19.7	111	mg/Kg	10/10/25 10:10	10/10/25 14:56	6010D	SW3050
7440-28-0	Thallium	0.25	U	1	0.25	2.21	mg/Kg	10/10/25 10:10	10/10/25 14:56	6010D	SW3050
7440-62-2	Vanadium	204		1	0.28	2.21	mg/Kg	10/10/25 10:10	10/10/25 14:56	6010D	SW3050
7440-66-6	Zinc	332		1	0.25	2.21	mg/Kg	10/10/25 10:10	10/10/25 14:56	6010D	SW3050

Color Before:	Brown	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	No
Comments:	METALS-TAL			

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LAB CHRONICLE

OrderID:	Q3310	OrderDate:	10/8/2025 1:24:21 PM
Client:	Langan Engineering and Environmental Services, Inc	Project:	Con Edison Richmond Terrace
Contact:	Gregory DelMastro	Location:	D31,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3310-01	SS-01-0-1	SOIL			10/07/25			10/08/25
			Mercury	7471B		10/09/25	10/09/25	
			Metals ICP-TAL	6010D		10/10/25	10/10/25	
Q3310-02	SS-01-1-2	SOIL			10/07/25			10/08/25
			Mercury	7471B		10/09/25	10/09/25	
			Metals ICP-TAL	6010D		10/10/25	10/10/25	
Q3310-03	SS-01-2-3	SOIL			10/07/25			10/08/25
			Mercury	7471B		10/09/25	10/09/25	
			Metals ICP-TAL	6010D		10/10/25	10/10/25	