

RAW DATA 1

Raw Soil Sampling Data

Field Sampling Log

Project Name: Environmental Site Assessment

Project Number: ESA-2025-0317

Sampling Date: January 12, 2025

Field Personnel: Collins O Molua

Weather Conditions: Partly cloudy, 15°C, light wind

Sample Collection Information

Sample ID	Location	GPS Coordinates	Depth (m)	Sample Time	Field Observations	Container Types	Preservation Method
A-1-0.5	Location A	N 40°15'32.1", W 74°12'18.3"	0.500	09:15	Sandy loam, slight petroleum odor	4oz glass jar	Cool to 4°C
A-2-1.0	Location A	N 40°15'32.1", W 74°12'18.3"	1.000	09:23	Sandy clay, moderate petroleum odor	4oz glass jar	Cool to 4°C
A-3-1.5	Location A	N 40°15'32.1", W 74°12'18.3"	1.500	09:30	Clay, strong petroleum odor	4oz glass jar	Cool to 4°C
A-4-2.0	Location A	N 40°15'32.1", W 74°12'18.3"	2.000	09:38	Clay, strong petroleum odor, slight sheen	4oz glass jar	Cool to 4°C
B-1-0.5	Location B	N 40°15'35.6", W 74°12'20.1"	0.500	10:05	Silty loam, no odor	4oz glass jar	Cool to 4°C
B-2-1.0	Location B	N 40°15'35.6", W 74°12'20.1"	1.000	10:13	Silty clay, slight petroleum odor	4oz glass jar	Cool to 4°C
B-3-1.5	Location B	N 40°15'35.6",	1.500	10:21	Clay, moderate	4oz glass jar	Cool to 4°C

		W 74°12'20.1"			petroleum odor		
B-4-2.0	Location B	N 40°15'35.6", W 74°12'20.1"	2.000	10:30	Clay, strong petroleum odor	4oz glass jar	Cool to 4°C
C-1-0.5	Location C	N 40°15'30.2", W 74°12'15.8"	0.500	11:05	Sandy loam, slight petroleum odor	4oz glass jar	Cool to 4°C
C-2-1.0	Location C	N 40°15'30.2", W 74°12'15.8"	1.000	11:12	Sandy clay, moderate petroleum odor	4oz glass jar	Cool to 4°C
C-3-1.5	Location C	N 40°15'30.2", W 74°12'15.8"	1.500	11:20	Clay, strong petroleum odor	4oz glass jar	Cool to 4°C
C-4-2.0	Location C	N 40°15'30.2", W 74°12'15.8"	2.000	11:28	Clay, strong petroleum odor, slight sheen	4oz glass jar	Cool to 4°C
D-1-0.5	Location D	N 40°15'33.7", W 74°12'17.2"	0.500	13:05	Sandy loam, slight petroleum odor	4oz glass jar	Cool to 4°C
D-2-1.0	Location D	N 40°15'33.7", W 74°12'17.2"	1.000	13:13	Sandy clay, moderate petroleum odor	4oz glass jar	Cool to 4°C
D-3-1.5	Location D	N 40°15'33.7", W 74°12'17.2"	1.500	13:20	Clay, strong petroleum odor	4oz glass jar	Cool to 4°C
D-4-2.0	Location D	N 40°15'33.7", W 74°12'17.2"	2.000	13:28	Clay, strong petroleum odor, slight sheen	4oz glass jar	Cool to 4°C
E-1-0.5	Location E	N 40°15'36.9", W 74°12'19.5"	0.500	14:05	Silty loam, no odor	4oz glass jar	Cool to 4°C

RAW DATA 2

Chain of Custody

Laboratory: Enviromental Analytics Lab.

Date Received by Lab: January 13, 2025

Sample Condition on Receipt: Acceptable, temperature 5.2°C

Analysis Requested: TPH (8015M), BTEX (8260B), PAH (8270D)

Laboratory Analysis Results

Total Petroleum Hydrocarbons (TPH) - Method 8015M

Sample ID	Laboratory ID	Analysis Date	Time	Analyst	Result (mg/kg)	MDL (mg/kg)	RL (mg/kg)	Dilution Factor	QC Batch
A-1-0.5	L032522-001	3/14/2025	10:15	Odigie N.	220.123	5.0	10.0	1	B032522
A-2-1.0	L032522-002	3/14/2025	10:45	Odigie N.	305.456	5.0	10.0	1	B032522
A-3-1.5	L032522-003	3/14/2025	11:15	Odigie N.	410.789	5.0	10.0	1	B032522
A-4-2.0	L032522-004	3/14/2025	11:45	Odigie N.	530.345	5.0	10.0	2	B032522
B-1-0.5	L032522-005	3/14/2025	13:15	Odigie N.	190.678	5.0	10.0	1	B032522
B-2-1.0	L032522-006	3/14/2025	13:45	Odigie N.	275.890	5.0	10.0	1	B032522
B-3-1.5	L032522-007	3/14/2025	14:15	Odigie N.	380.123	5.0	10.0	1	B032522
B-4-2.0	L032522-008	3/14/2025	14:45	Odigie N.	495.456	5.0	10.0	1	B032522
C-1-0.5	L032522-009	3/14/2025	15:15	Odigie N.	210.345	5.0	10.0	1	B032522
C-2-1.0	L032522-010	3/14/2025	15:45	Odigie N.	290.567	5.0	10.0	1	B032523
C-3-1.5	L032522-011	3/14/2025	16:15	Odigie N.	400.678	5.0	10.0	1	B032523
C-4-2.0	L032522-012	3/14/2025	16:45	Odigie N.	510.789	5.0	10.0	2	B032523
D-1-0.5	L032522-013	3/15/2025	09:15	Odigie N.	205.123	5.0	10.0	1	B032523

D-2-1.0	L032522-014	3/15/2025	09:45	Odigie N.	295.456	5.0	10.0	1	B032523
D-3-1.5	L032522-015	3/15/2025	10:15	Odigie N.	410.678	5.0	10.0	1	B032523
D-4-2.0	L032522-016	3/15/2025	10:45	Odigie N.	525.789	5.0	10.0	2	B032523
E-1-0.5	L032522-017	3/15/2025	11:15	Odigie N.	185.678	5.0	10.0	1	B032523

BTEX Compounds - Method 8260B

Sample ID	Laboratory ID	Analysis Date	Time	Analyst	Result (mg/kg)	MDL (mg/kg)	RL (mg/kg)	Dilution Factor	QC Batch
A-1-0.5	L032522-001	3/14/2025	14:15	Odigie N.	1.123	0.005	0.020	1	B032524
A-2-1.0	L032522-002	3/14/2025	14:45	Odigie N.	1.456	0.005	0.020	1	B032524
A-3-1.5	L032522-003	3/14/2025	15:15	Odigie N.	1.789	0.005	0.020	1	B032524
A-4-2.0	L032522-004	3/14/2025	15:45	Odigie N.	2.123	0.005	0.020	1	B032524
B-1-0.5	L032522-005	3/14/2025	16:15	Odigie N.	0.890	0.005	0.020	1	B032524
B-2-1.0	L032522-006	3/14/2025	16:45	Odigie N.	1.234	0.005	0.020	1	B032524
B-3-1.5	L032522-007	3/15/2025	08:15	Odigie N.	1.678	0.005	0.020	1	B032525
B-4-2.0	L032522-008	3/15/2025	08:45	Odigie N.	2.012	0.005	0.020	1	B032525
C-1-0.5	L032522-009	3/15/2025	09:15	Odigie N.	1.023	0.005	0.020	1	B032525
C-2-1.0	L032522-010	3/15/2025	09:45	Odigie N.	1.345	0.005	0.020	1	B032525
C-3-1.5	L032522-011	3/15/2025	10:15	Odigie N.	1.789	0.005	0.020	1	B032525
C-4-2.0	L032522-012	3/15/2025	10:45	Odigie N.	2.123	0.005	0.020	1	B032525
D-1-0.5	L032522-013	3/15/2025	11:15	Odigie N.	1.056	0.005	0.020	1	B032525
D-2-1.0	L032522-014	3/15/2025	11:45	Odigie N.	1.345	0.005	0.020	1	B032525
D-3-1.5	L032522-015	3/15/2025	13:15	Odigie N.	1.678	0.005	0.020	1	B032526
D-4-2.0	L032522-016	3/15/2025	13:45	Odigie N.	2.034	0.005	0.020	1	B032526

E-1-0.5	L032522-017	3/15/2025	14:15	Odigie N.	0.900	0.005	0.020	1	B032526
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Polycyclic Aromatic Hydrocarbons (PAH) - Method 8270D

Sample ID	Laboratory ID	Analysis Date	Time	Analyst	Result (mg/kg)	MDL (mg/kg)	RL (mg/kg)	Dilution Factor	QC Batch
A-1-0.5	L032522-001	3/15/2025	14:15	Omoko J	0.456	0.010	0.050	1	B032527
A-2-1.0	L032522-002	3/15/2025	14:45	Omoko J	0.567	0.010	0		

RAW DATA 3

Raw Groundwater Sampling Data

Field Sampling Log

Project Name: Groundwater Quality Assessment

Project Number: GWA-2025-0317

Sampling Date: January 14-15, 2025

Field Personnel: Morka, J.C

Weather Conditions: Clear, 18°C, no precipitation

Monitoring Well Information

Well ID	Location	GPS Coordinates	Total Depth (m)	Screen Interval (m)	Water Table Depth (m)	Well Diameter (cm)
MW-A	Location A	N 40°15'32.1", W 74°12'18.3"	6.00	3.00-6.00	2.75	5.08
MW-B	Location B	N 40°15'35.6", W 74°12'20.1"	6.00	3.00-6.00	2.83	5.08
MW-C	Location C	N 40°15'30.2", W 74°12'15.8"	6.00	3.00-6.00	2.78	5.08
MW-D	Location D	N 40°15'33.7", W 74°12'17.2"	6.00	3.00-6.00	2.80	5.08

MW-E	Location E	N 40°15'36.9", W 74°12'19.5"	6.00	3.00-6.00	2.85	5.08
MW-F	Location F	N 40°15'31.5", W 74°12'16.3"	6.00	3.00-6.00	2.82	5.08

Groundwater Sample Collection

Sample ID	Well ID	Depth (m)	Sample Time	Field Parameters					Container Types	Preservation Method
				Temp (°C)	pH	DO (mg/L)	Conductivity (µS/cm)	ORP (mV)		
A-1-3.0	MW-A	3.000	09:15	14.3	6.789	4.123	785	23	40mL VOA vials, 1L amber glass	HCl to pH<2, Cool to 4°C
A-2-4.0	MW-A	4.000	09:45	14.5	6.890	3.789	810	15	40mL VOA vials, 1L amber glass	HCl to pH<2, Cool to 4°C
A-3-4.5	MW-A	4.500	10:15	14.7	6.900	3.456	825	10	40mL VOA vials, 1L amber glass	HCl to pH<2, Cool to 4°C
A-4-5.0	MW-A	5.000	10:45	14.9	7.012	3.234	845	5	40mL VOA vials, 1L amber glass	HCl to pH<2, Cool to 4°C
B-1-3.0	MW-B	3.000	11:15	14.2	6.800	4.056	780	25	40mL VOA vials, 1L amber glass	HCl to pH<2, Cool to 4°C
B-2-4.0	MW-B	4.000	11:45	14.4	6.870	3.789	805	18	40mL VOA	HCl to pH<2,

									vials, 1L amber glass	Cool to 4°C
B-3- 4.5	MW -B	4.50 0	13:1 5	14.6	6.89 0	3.456	820	12	40mL VOA vials, 1L amber glass	HCl to pH<2, Cool to 4°C
B-4- 5.0	MW -B	5.00 0	13:4 5	14.8	7.02 3	3.345	840	6	40mL VOA vials, 1L amber glass	HCl to pH<2, Cool to 4°C
C-1- 3.0	MW -C	3.00 0	14:1 5	14.3	6.78 5	4.123	782	24	40mL VOA vials, 1L amber glass	HCl to pH<2, Cool to 4°C
C-2- 4.0	MW -C	4.00 0	14:4 5	14.5	6.89 0	3.789	808	16	40mL VOA vials, 1L amber glass	HCl to pH<2, Cool to 4°C
C-3- 4.5	MW -C	4.50 0	15:1 5	14.7	6.90 2	3.456	825	11	40mL VOA vials, 1L amber glass	HCl to pH<2, Cool to 4°C
C-4- 5.0	MW -C	5.00 0	15:4 5	14.9	7.01 5	3.234	842	5	40mL VOA vials, 1L amber glass	HCl to pH<2, Cool to 4°C
D-1- 3.0	MW -D	3.00 0	16:1 5	14.2	6.80 0	4.200	775	26	40mL VOA vials,	HCl to pH<2,

									1L amber glass	Cool to 4°C
D-2- 4.0	MW -D	4.00 0	16:4 5	14.4	6.88 0	3.789	800	19	40mL VOA vials, 1L amber glass	HCl to pH<2, Cool to 4°C
D-3- 4.5	MW -D	4.50 0	09:1 5	14.6	6.90 0	3.456	818	14	40mL VOA vials, 1L amber glass	HCl to pH<2, Cool to 4°C
D-4- 5.0	MW -D	5.00 0	09:4 5	14.8	7.03 0	3.345	835	7	40mL VOA vials, 1L amber glass	HCl to pH<2, Cool to 4°C
E-1- 3.0	MW -E	3.00 0	10:1 5	14.1	6.77 0	4.056	770	28	40mL VOA vials, 1L amber glass	HCl to pH<2, Cool to 4°C
E-2- 4.0	MW -E	4.00 0	10:4 5	14.3	6.85 0	3.789	795	20	40mL VOA vials, 1L amber glass	HCl to pH<2, Cool to 4°C
E-3- 4.5	MW -E	4.50 0	11:1 5	14.5	6.89 0	3.456	810	15	40mL VOA vials, 1L amber glass	HCl to pH<2, Cool to 4°C
E-4- 5.0	MW -E	5.00 0	11:4 5	14.7	7.04 5	3.345	830	8	40mL VOA vials, 1L	HCl to pH<2, Cool to 4°C

									amber glass	
F-1-3.0	MW -F	3.00 0	13:1 5	14.2	6.77 5	4.123	778	25	40mL VOA vials, 1L amber glass	HCl to pH<2, Cool to 4°C
F-2-4.0	MW -F	4.00 0	13:4 5	14.4	6.86 0	3.789	803	17	40mL VOA vials, 1L amber glass	HCl to pH<2, Cool to 4°C
F-3-4.5	MW -F	4.50 0	14:1 5	14.6	6.89 5	3.456	815	13	40mL VOA vials, 1L amber glass	HCl to pH<2, Cool to 4°C
F-4-5.0	MW -F	5.00 0	14:4 5	14.8	7.05 0	3.345	833	6	40mL VOA vials, 1L amber glass	HCl to pH<2, Cool to 4°C

RAW DATA 4

Purging Information

Purging Method: Low-flow purging with peristaltic pump

Purge Rate: 100-200 mL/min

Field Parameters Stabilization Criteria:

- pH: ± 0.1 units
- Dissolved Oxygen: ± 0.3 mg/L
- Conductivity: $\pm 3\%$
- ORP: ± 10 mV
- Turbidity: <10 NTU

Chain of Custody

Laboratory: AquaLab Enviro Ltd.

Date Received by Lab: January 15, 2025

Sample Condition on Receipt: Acceptable, temperature 4.8°C

Analysis Requested: TPH (8015M), BTEX (8260B), General Chemistry (pH, DO confirmation)

Laboratory Analysis Results

Total Petroleum Hydrocarbons (TPH) - Method 8015M

Sample ID	Laboratory ID	Analysis Date	Time	Analyst	Result (µg/L)	MDL (µg/L)	RL (µg/L)	Dilution Factor	QC Batch
A-1-3.0	L032624-001	3/16/2025	09:15	R. Thompson	550.123	10.0	50.0	1	B032624
A-2-4.0	L032624-002	3/16/2025	09:45	R. Thompson	620.456	10.0	50.0	1	B032624
A-3-4.5	L032624-003	3/16/2025	10:15	R. Thompson	680.789	10.0	50.0	1	B032624
A-4-5.0	L032624-004	3/16/2025	10:45	R. Thompson	750.123	10.0	50.0	1	B032624
B-1-3.0	L032624-005	3/16/2025	11:15	R. Thompson	530.234	10.0	50.0	1	B032624
B-2-4.0	L032624-006	3/16/2025	11:45	R. Thompson	600.678	10.0	50.0	1	B032624
B-3-4.5	L032624-007	3/16/2025	13:15	R. Thompson	670.123	10.0	50.0	1	B032625
B-4-5.0	L032624-008	3/16/2025	13:45	R. Thompson	740.456	10.0	50.0	1	B032625
C-1-3.0	L032624-009	3/16/2025	14:15	R. Thompson	545.678	10.0	50.0	1	B032625
C-2-4.0	L032624-010	3/16/2025	14:45	R. Thompson	615.789	10.0	50.0	1	B032625
C-3-4.5	L032624-011	3/16/2025	15:15	R. Thompson	685.456	10.0	50.0	1	B032625
C-4-5.0	L032624-012	3/16/2025	15:45	R. Thompson	755.678	10.0	50.0	1	B032625
D-1-3.0	L032624-013	3/17/2025	09:15	R. Thompson	520.345	10.0	50.0	1	B032626
D-2-4.0	L032624-014	3/17/2025	09:45	R. Thompson	590.456	10.0	50.0	1	B032626
D-3-4.5	L032624-015	3/17/2025	10:15	R. Thompson	660.678	10.0	50.0	1	B032626
D-4-5.0	L032624-016	3/17/2025	10:45	R. Thompson	730.789	10.0	50.0	1	B032626
E-1-3.0	L032624-017	3/17/2025	11:15	R. Thompson	510.456	10.0	50		