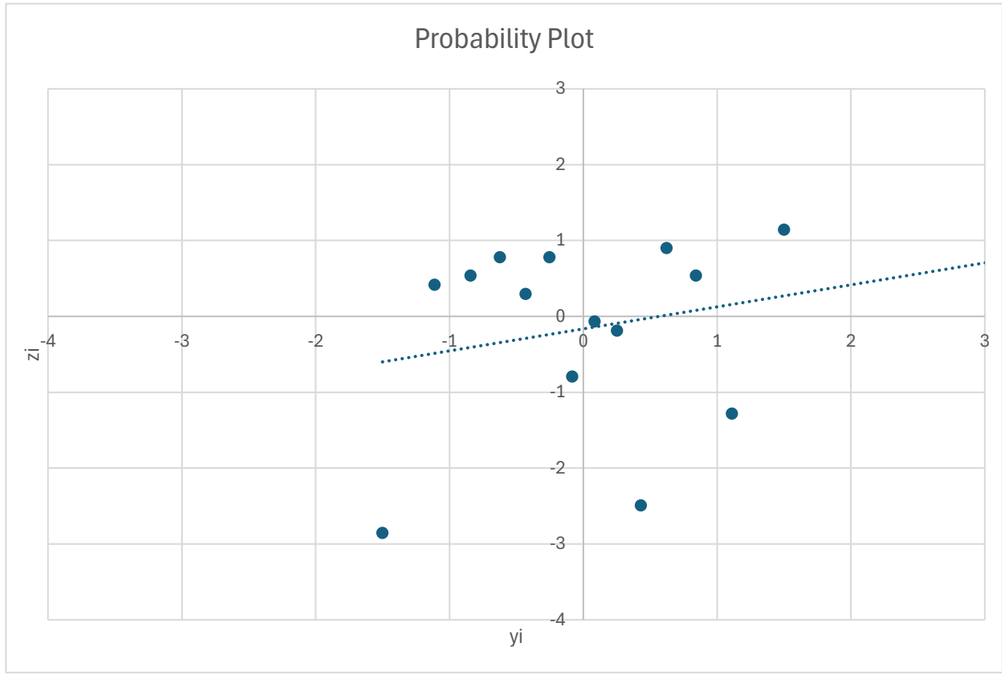
Appendix B – Topsoil Verification Screening and Statistical Analysis

CTC HAYES - BLKS C, E, F

BORON UCL 95

Average	2.457143
SD	0.825287
Sample size	14
Confidence Coff	1.96
Margin of error	0.432312
Upper Bound	2.889455
Lower Bound	2.024831
Max	3.4
Min	0.4
Range	3
Square root of N	3.741657

Xi	Yi = Xi - Mean/S	Qi	Zi
2	-2.8561487	0.066667	-1.50109
2.8	0.415439811	0.133333	-1.11077
2.9	0.536609756	0.2	-0.84162
3.1	0.778949645	0.266667	-0.62293
2.7	0.294269866	0.333333	-0.43073
3.1	0.778949645	0.4	-0.25335
1.8	-0.796259638	0.466667	-0.08365
2.4	-0.069239968	0.533333	0.083652
2.3	-0.190409913	0.6	0.253347
0.4	-2.492638865	0.666667	0.430727
3.2	0.90011959	0.733333	0.622926
2.9	0.536609756	0.8	0.841621
1.4	-1.280939417	0.866667	1.110772
3.4	1.14245948	0.933333	1.501086



$$UCL_{0.95} = \bar{x} + \left(t_{(n-1,\,0.95)} \times \frac{s}{\sqrt{n}} \right)$$

t-test

2.861443

$t_{(n-1,0.95)}$ = 1.833 from one-sample t-test theorem (CLAIRE)

Project / Site name: CTC Hayes

Lab Sample Number									484897	484898	484899	484900	484901	484902	514941	514942	514943	514944	526438	526439	526440	526441		
Sample Reference									TS1-01	TS1-02	TS1-03	TS2-01	TS2-02	TS2-03	TS3-01	TS3-02	TS3-03	SS01-01	TS1-04	TS1-05	TS1-06	TS1-07		
Sample Number									None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied		
Water Matrix									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		
Depth (m)									None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	0.10-0.30	0.10-0.30	0.10-0.30	0.60-0.80	None Supplied	None Supplied	None Supplied	None Supplied		
Date Sampled									18/03/2025	18/03/2025	18/03/2025	18/03/2025	18/03/2025	18/03/2025	13/04/2025	13/04/2025	13/04/2025	13/04/2025	25/03/2025	25/03/2025	25/03/2025	25/03/2025		
Time Taken									1300	1300	1300	1315	1315	1315	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied		
Analytical Parameter (Soil Analysis)	**Units**	**Test Limit of detection**	**Test Accreditation Status**	**UCL 95**	**Mean Concentration**	**S4UL - Public Open Space - residential mg/kg**	**S4UL - residential with produce mg/kg**	**Import Screening Criteria - extracted from Appendix C2 of Turnkey RMS**																
Stone Content	%	0 1	NONE	-	-		-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	15	15 8	<0.1	<0.1		
Moisture Content	%	0 01	NONE	-	-		-	-	15	15	14	11	11	12	4 2	1 1	5 8	2 5	6 3	9 7	10	7 8		
Total mass of sample received	kg	0 1	NONE	-	-		-	-	0 7	0 7	0 7	0 7	0 7	0 7	0 6	0 6	0 5	0 7	1 5	1 5	1 4	1 3		
Asbestos																								
Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	-	-	Non-detect	Non-detect	Non-detect	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected		
Asbestos Analyst ID	N/A	N/A	N/A	-	-				MJN	MJN	MJN	MJN	MJN	MJN	SCA	SCA	SCA	SCA	DKI	DKI	DKI	DKI		
Analysis completed	N/A	N/A	N/A	-	-				21/03/2025	21/03/2025	21/03/2025	21/03/2025	21/03/2025	21/03/2025	18/04/2025	18/04/2025	18/04/2025	18/04/2025	02/05/2025	02/05/2025	02/025/2025	02/05/2025		
General Inorganics																								
Total Cyanide	mg/kg	1	MCERTS	-	-	N/A	N/A	<MDL	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0		
Complex Cyanide	mg/kg	1	MCERTS	-	-	N/A	N/A	<MDL	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0		
Free Cyanide	mg/kg	1	MCERTS	-	-	N/A	N/A	<MDL	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0		
Total Phenols																								
Total Phenols (monohydric)	mg/kg	1	MCERTS	-	<1.0	760	750	<MDL	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0		
Speciated PAHs																								
Naphthalene	mg/kg	0 05	MCERTS	-	<0.05	4900	2 3	2 3	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.05	<0.05	<0.05	<0.05		
Acenaphthylene	mg/kg	0 05	MCERTS	-	<0.05	15000	170	170	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.05	<0.05	<0.05	<0.05		
Acenaphthene	mg/kg	0 05	MCERTS	-	0 09	15000	210	210	0 05	0 16	0 07	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0 1	<0.05	<0.05	0 06		
Fluorene	mg/kg	0 05	MCERTS	-	0 15	9900	170	170	< 0.05	0 15	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0 1	<0.05	<0.05	0 06		
Phenanthrene	mg/kg	0 05	MCERTS	-	0 63	3100	95	15	0 32	1 2	0 38	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0 66	0 46	0 21	0 49		
Anthracene	mg/kg	0 05	MCERTS	-	0 15	74000	2400	4	0 07	0 29	0 09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0 18	0 11	0 07	0 13		
Fluoranthene	mg/kg	0 05	MCERTS	-	0 49	3100	280	26	0 66	1 7	0 7	0 08	0 07	0 14	< 0.05	< 0.05	0 1	< 0.05	0 83	0 91	0 73	0 87		
Pyrene	mg/kg	0 05	MCERTS	-	0 42	7400	620	21	0 59	1 4	0 61	0 07	0 07	0 13	< 0.05	< 0.05	0 08	< 0.05	0 66	0 75	0 65	0 74		
Benzo(a)anthracene	mg/kg	0 05	MCERTS	-	0 31	29	7 2	9	0 28	0 62	0 26	< 0.05	< 0.05	0 08	< 0.05	< 0.05	< 0.05	< 0.05	0 3	0 37	0 36	0 35		
Chrysene	mg/kg	0 05	MCERTS	-	0 268	57	15	15	0 3	0 62	0 27	0 06	< 0.05	0 09	< 0.05	< 0.05	< 0.05	< 0.05	0 33	0 35	0 37	0 36		
Benzo(b)fluoranthene	mg/kg	0 05	ISO 17025	-	0 38	7 1	2 6	7 1	0 42	0 82	0 38	0 11	< 0.05	0 17	< 0.05	< 0.05	< 0.05	< 0.05	0 37	0 43	0 48	0 47		
Benzo(k)fluoranthene	mg/kg	0 05	ISO 17025	-	0 19	190	77	77	0 15	0 28	0 13	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0 14	0 17	0 18	0 17		
Benzo(a)pyrene	mg/kg	0 05	MCERTS	-	0 41	5 70	2 2	5 7	0 34	0 62	0 28	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0 27	0 33	0 37	0 36		
Indeno(1,2,3-cd)pyrene	mg/kg	0 05	MCERTS	-	0 175	82	27	27	0 18	0 3	0 15	< 0.05	< 0.05	0 07	< 0.05	< 0.05	< 0.05	< 0.05	0 16	0 19	0 19	0 2		
Dibenz(a,h)anthracene	mg/kg	0 05	MCERTS	-	<0.05	0 57	0 24	0 57	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.05	<0.05	<0.05	<0.05		
Benzo(ghi)perylene	mg/kg	0 05	MCERTS	-	0 19	640	320	320	0 2	0 33	0 16	< 0.05	< 0.05	0 07	< 0.05	< 0.05	< 0.05	< 0.05	0 19	0 23	0 21	0 25		
Total PAH																								
Speciated Total EPA-16 PAHs	mg/kg	0 8	ISO 17025	-	5 20	-	-	114	3 58	8 52	3 49	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	4 28	4 29	3 83	4 5		
Heavy Metals / Metalloids																								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	11	79	37	37	7 9	7 9	8 8	6 6	7 6	6 6	13	20	28	18	7 5	8	6 7	8		
Boron (water soluble)	mg/kg	0 2	MCERTS	2 86	2 46	21000	290	3	2	2 8	2 9	3 1	2 7	3 1	1 8	2 4	2 3	0 4	3 2	2 9	1 4	3 4		
Cadmium (aqua regia extractable)	mg/kg	0 2	MCERTS	-	0 30	120	11	11	0 3	0 3	0 4	< 0.2	< 0.2	0 2	< 0.2	< 0.2	< 0.2	< 0.2	0 3	0 3	0 3	0 3		
Chromium (hexavalent)	mg/kg	1 8	MCERTS	-	<1.8	7 70	6	6	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	<1.8	<1.8	<1.8	<1.8		
Chromium (III)	mg/kg	1	NONE	-	16	1500	910	43	14	12	13	12	11	13	15	23	29	21	13	14	13	14		
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	16 14	1500	910	43	14	13	14	13	11	14	16	24	30	21	14	15	13	14		
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	20	1200	2400	153	25	25	27	28	19	22	13	10	12	7 2	22	22	22	23		
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	26	630	200	630	60	41	38	19	14	16	8 3	11	14	5 1	32	38	33	36		
Mercury (aqua regia extractable)	mg/kg	0 3	MCERTS	-	<0.3	120	40	2 3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	<0.3	<0.3	<0.3	<0.3		
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	10 6	230	180	61	9 5	9 3	8 6	10	8 9	10	10	13	19	15	8 9	9 1	8 6	9		
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	<1.0	1100	250	250	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0		
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	45 59	33 71	2000	410	82	22	20	20	18	17	19	49	69	84	74	20	21	19	20		
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	59	81000	3700	328	75	76	72	68	47	51	30	40	61	28	64	71	70	73		
Petroleum Hydrocarbons																								
TPHCWG - Aliphatic >EC5 - EC6 HS_1D_AL	mg/kg	0 01	MCERTS	-	<0.01	570000	42	42	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	<0.010	<0.010	<0.010	<0.010		
TPHCWG - Aliphatic >EC6 - EC8 HS_1D_AL	mg/kg	0 01	MCERTS	-	<0.01	600000	100	100	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	<0.010	<0.010	<0.010	<0.010		
TPHCWG - Aliphatic >EC8 - EC10 HS_1D_AL	mg/kg	0 01	MCERTS	-	<0.01	13000	27	27	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	<0.010	<0.010	<0.010	<0.010		
TPHCWG - Aliphatic >EC10 - EC12 EH_CU_1D_AL	mg/kg	1	MCERTS	-	<1.0	13000	130	130	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0		
TPHCWG - Aliphatic >EC12 - EC16 EH_CU_1D_AL	mg/kg	2	MCERTS	-	3 8	13000	1100	36	3	4 6	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	3 2		
TPHCWG - Aliphatic >EC16 - EC21 EH_CU_1D_AL	mg/kg	8	MCERTS	-	<8.0	250000	65000	500	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	<8.0	<8.0	<8.0	<8.0		
TPHCWG - Aliphatic >EC21 - EC35 EH_CU_1D_AL	mg/kg	8	MCERTS	-	32	250000	65000	1000	38	29	28	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	34	21	19	43		
TPHCWG - Aliphatic >EC35 - EC44 EH_CU_1D_AL	mg/kg	8 4	NONE	-	9 85	250000	65000	1000	11	8 7	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4	<8.4	16	<8.4	26		
TPHCWG - Aliphatic >EC5 - EC35 EH_CU+HS_1D_AL	mg/kg	10	NONE	-	34 33	-	-	1000	41	34	28	< 10	< 10	< 10	< 10	< 10	< 10	< 10	34	21	19	46		
TPHCWG - Aliphatic >EC5 - EC44 EH_CU+HS_1D_AL	mg/kg	10	NONE	-	40 33	-	-	1000	51	42	28	< 10	< 10	< 10	< 10	< 10	< 10	< 10	34	38	19	72		
TPHCWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0 01	MCERTS	-	<0.01	56000	70	70	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	<0.010	<0.010	<0.010	<0.010		
TPHCWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0 01	MCERTS	-	<0.01	56000	130	130	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	<0.010	<0.010	<0.010	<0.010		
TPHCWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0 02	MCERTS	-	<0.02	5000	34	34	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	<0.020	<0.020	<0.020	<0.020		
TPHCWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	-	1 5	5000	74	74	< 1.0	1 5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0		
TPHCWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	-	6 2	5100	140	20	< 2.0	6 2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0		
TPHCWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	-	<10	3800	260	500	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<10	<10	<10	<10		
TPHCWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	-	32 67	3800	1100	1000	34	36	28	< 10	< 10	< 10	< 10	< 10	< 10	< 10	27	13	17	12		
TPHCWG - Aromatic >EC35 - EC44 EH_CU_1D_AR	mg/kg	8 4	NONE	-	42 33	3800	1100	1000	61	37	29	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4	<8.4	<8.4	<8.4	<8.4		
TPHCWG - Aromatic >EC5 - EC35 EH_CU+HS_1D_AR	mg/kg	10	NONE	-	35 00	-	-	1000	34	43	28	< 10	< 10	< 10	< 10	< 10	< 10	< 10	27	13	17	12		
TPHCWG - Aromatic >EC5 - EC44 EH_CU+HS_1D_AR	mg/kg	10	NONE	-	77	-	-	1000	94	80	57	< 10	< 10	< 10	< 10	< 10	< 10	< 10	27	13	17	12		
TPH Total >EC6 - EC40 EH_CU+HS_1D_TOTAL	mg/kg	10	NONE	-	104 67	-	-	1000	120	110	84	< 10	< 10	< 10	< 10	< 10	< 10	< 10	79	46	40	80		
Petroleum Range Organics (EC6 - EC10) HS_1D_TOTAL	mg/kg	1	ISO 17025	-	<1.0	-	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0		
TPH (EC10 - EC40) EH_CU_1D_TOTAL	mg/kg	10	MCERTS	-	104 67	-	-	-	120	110	84	< 10	< 10	< 10	< 10	< 10	< 10	< 10	79	46	40	80		
VOCs																								
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	-	<5.0	-	-	-	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0		
Benzene	µg/kg	5	MCERTS	-	<5.0	72	87	6000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0		
Toluene	µg/kg	5	MCERTS	-	<5.0	56000	130000	6000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0		
Ethylbenzene	µg/kg	5	MCERTS	-	<5.0	24000	47000	6000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0		
p & m-Xylene	µg/kg	8	MCERTS	-	<8.0	41000	56000	6000	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	<8.0	<8.0	<8.0	<8.0		
o-Xylene	µg/kg	5	MCERTS	-	<5.0	4100	56000	6000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0		

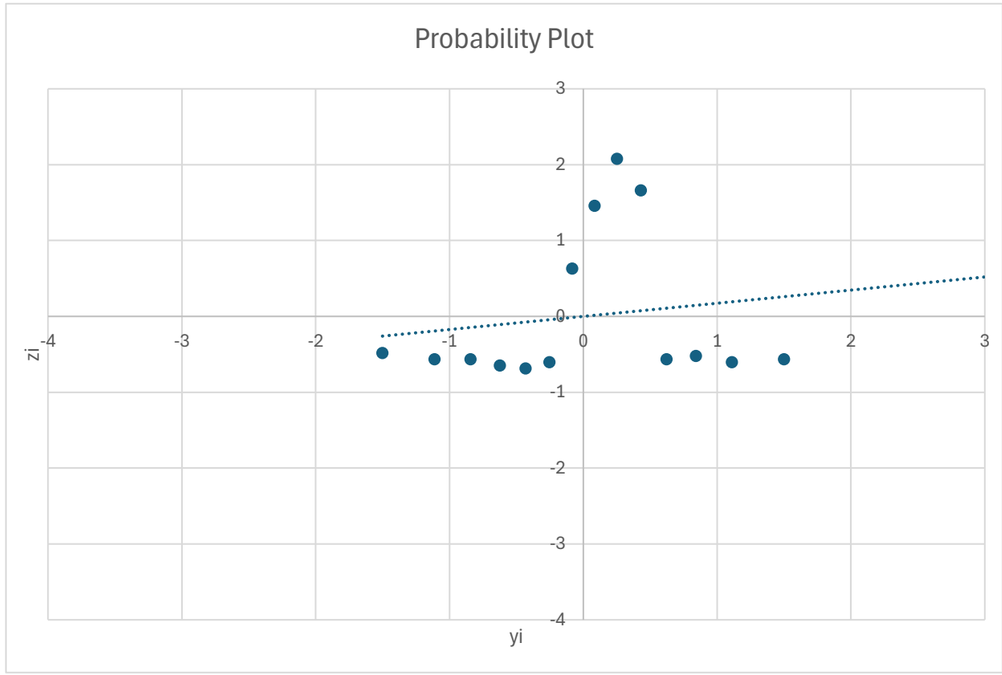
U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

CTC HAYES - BLKS C, E, F

VANADIUM UCL 95

Average	33.71429
SD	24.24373
Sample size	14
Confidence Coff	1.96
Margin of error	12.69964
Upper Bound	46.41393
Lower Bound	21.01465
Max	84
Min	17
Range	67
Square root of N	3.741657

Xi	Yi = Xi - Mean/S	Qi	Zi
22	-0.483188343	0.066667	-1.50109
20	-0.565683914	0.133333	-1.11077
20	-0.565683914	0.2	-0.84162
18	-0.648179485	0.266667	-0.62293
17	-0.68942727	0.333333	-0.43073
19	-0.606931699	0.4	-0.25335
49	0.630501863	0.466667	-0.08365
69	1.455457571	0.533333	0.083652
84	2.074174351	0.6	0.253347
74	1.661696498	0.666667	0.430727
20	-0.565683914	0.733333	0.622926
21	-0.524436129	0.8	0.841621
19	-0.606931699	0.866667	1.110772
20	-0.565683914	0.933333	1.501086



$$UCL_{0.95} = \bar{x} + \left(t_{(n-1,\,0.95)} \times \frac{s}{\sqrt{n}} \right)$$

t-test

45.59104

$t_{(n-1,0.95)}$ = 1.833 from one-sample t-test theorem (CLAIRE)

Appendix C – Laboratory Certificates

Turnkey Regeneration Ltd
2 Caffyn Place
Broadbridge Heath
Horsham
West Sussex
RH123XH

e: dave.rutherford@turnkeyregeneration.com

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 01923 225404
f: 01923 237404
e: reception@i2analytical.com

Analytical Report Number : 25-013442

Project / Site name:	CTC	**Samples received on:**	18/03/2025
Your job number:	0112	**Samples instructed on/ Analysis started on:**	18/03/2025
Your order number:	0112	**Analysis completed by:**	24/03/2025
Report Issue Number:	1	**Report issued on:**	24/03/2025
Samples Analysed:	6 soil samples		

Signed:

Joanna Wawrzeczko
Senior Reporting Specialist
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting
air	- once the analysis is complete

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 25-013442
Project / Site name: CTC
Your Order No: 0112

Lab Sample Number				484897	484898	484899	484900	484901
Sample Reference				TS1-01	TS1-02	TS1-03	TS2-01	TS2-02
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				18/03/2025	18/03/2025	18/03/2025	18/03/2025	18/03/2025
Time Taken				1300	1300	1300	1315	1315
Analytical Parameter (Soil Analysis)	**Units**	**Test Limit of detection**	**Test Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	15	15	14	11	11
Total mass of sample received	kg	0.1	NONE	0.7	0.7	0.7	0.7	0.7
Asbestos								
Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	MJN	MJN	MJN	MJN	MJN
Analysis completed	N/A	N/A	N/A	21/03/2025	21/03/2025	21/03/2025	21/03/2025	21/03/2025
General Inorganics								
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Complex Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.05	0.16	0.07	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	0.15	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.32	1.2	0.38	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	0.07	0.29	0.09	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.66	1.7	0.7	0.08	0.07
Pyrene	mg/kg	0.05	MCERTS	0.59	1.4	0.61	0.07	0.07
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.28	0.62	0.26	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	0.3	0.62	0.27	0.06	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.42	0.82	0.38	0.11	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.15	0.28	0.13	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.34	0.62	0.28	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.18	0.3	0.15	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.2	0.33	0.16	< 0.05	< 0.05
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	3.58	8.52	3.49	< 0.80	< 0.80

Analytical Report Number: 25-013442
Project / Site name: CTC
Your Order No: 0112

Lab Sample Number				484897	484898	484899	484900	484901
Sample Reference				TS1-01	TS1-02	TS1-03	TS2-01	TS2-02
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				18/03/2025	18/03/2025	18/03/2025	18/03/2025	18/03/2025
Time Taken				1300	1300	1300	1315	1315
Analytical Parameter (Soil Analysis)	**Units**	**Test Limit of detection**	**Test Accreditation Status**					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	7.9	7.9	8.8	6.6	7.6
Boron (water soluble)	mg/kg	0.2	MCERTS	2	2.8	2.9	3.1	2.7
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.3	0.3	0.4	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	14	12	13	12	11
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	14	13	14	13	11
Copper (aqua regia extractable)	mg/kg	1	MCERTS	25	25	27	28	19
Lead (aqua regia extractable)	mg/kg	1	MCERTS	60	41	38	19	14
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	9.5	9.3	8.6	10	8.9
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	22	20	20	18	17
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	75	76	72	68	47
Petroleum Hydrocarbons								
TPHCWG - Aliphatic >EC5 - EC6 $_{HS\_1D\_AL}$	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 $_{HS\_1D\_AL}$	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 $_{HS\_1D\_AL}$	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 $_{EH\_CU\_1D\_AL}$	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 $_{EH\_CU\_1D\_AL}$	mg/kg	2	MCERTS	3	4.6	< 2.0	< 2.0	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 $_{EH\_CU\_1D\_AL}$	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC21 - EC35 $_{EH\_CU\_1D\_AL}$	mg/kg	8	MCERTS	38	29	28	< 8.0	< 8.0
TPHCWG - Aliphatic >EC35 - EC44 $_{EH\_CU\_1D\_AL}$	mg/kg	8.4	NONE	11	8.7	< 8.4	< 8.4	< 8.4
TPHCWG - Aliphatic >EC5 - EC35 $_{EH\_CU+HS\_1D\_AL}$	mg/kg	10	NONE	41	34	28	< 10	< 10
TPHCWG - Aliphatic >EC5 - EC44 $_{EH\_CU+HS\_1D\_AL}$	mg/kg	10	NONE	51	42	28	< 10	< 10
TPHCWG - Aromatic >EC5 - EC7 $_{HS\_1D\_AR}$	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 $_{HS\_1D\_AR}$	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 $_{HS\_1D\_AR}$	mg/kg	0.02	MCERTS	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aromatic >EC10 - EC12 $_{EH\_CU\_1D\_AR}$	mg/kg	1	MCERTS	< 1.0	1.5	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 $_{EH\_CU\_1D\_AR}$	mg/kg	2	MCERTS	< 2.0	6.2	< 2.0	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 $_{EH\_CU\_1D\_AR}$	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC21 - EC35 $_{EH\_CU\_1D\_AR}$	mg/kg	10	MCERTS	34	36	28	< 10	< 10
TPHCWG - Aromatic >EC35 - EC44 $_{EH\_CU\_1D\_AR}$	mg/kg	8.4	NONE	61	37	29	< 8.4	< 8.4
TPHCWG - Aromatic >EC5 - EC35 $_{EH\_CU+HS\_1D\_AR}$	mg/kg	10	NONE	34	43	28	< 10	< 10
TPHCWG - Aromatic >EC5 - EC44 $_{EH\_CU+HS\_1D\_AR}$	mg/kg	10	NONE	94	80	57	< 10	< 10
TPH Total >EC6 - EC40 $_{EH\_CU+HS\_1D\_TOTAL}$	mg/kg	10	NONE	120	110	84	< 10	< 10
Petroleum Range Organics (EC6 - EC10) $_{HS\_1D\_TOTAL}$	mg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH (EC10 - EC40) $_{EH\_CU\_1D\_TOTAL}$	mg/kg	10	MCERTS	120	110	84	< 10	< 10

Analytical Report Number: 25-013442
Project / Site name: CTC
Your Order No: 0112

Lab Sample Number				484897	484898	484899	484900	484901
Sample Reference				TS1-01	TS1-02	TS1-03	TS2-01	TS2-02
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				18/03/2025	18/03/2025	18/03/2025	18/03/2025	18/03/2025
Time Taken				1300	1300	1300	1315	1315
Analytical Parameter (Soil Analysis)	**Units**	**Test Limit of detection**	**Test Accreditation Status**					
VOCs								
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-013442
Project / Site name: CTC
Your Order No: 0112

Lab Sample Number				484902
Sample Reference				TS2-03
Sample Number				None Supplied
Water Matrix				N/A
Depth (m)				None Supplied
Date Sampled				18/03/2025
Time Taken				1315
Analytical Parameter (Soil Analysis)	**Units**	**Test Limit of detection**	**Test Accreditation Status**	
Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	12
Total mass of sample received	kg	0.1	NONE	0.7
Asbestos				
Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	MJN
Analysis completed	N/A	N/A	N/A	21/03/2025
General Inorganics				
Total Cyanide	mg/kg	1	MCERTS	< 1.0
Complex Cyanide	mg/kg	1	MCERTS	< 1.0
Free Cyanide	mg/kg	1	MCERTS	< 1.0
Total Phenols				
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0
Speciated PAHs				
Naphthalene	mg/kg	0.05	MCERTS	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.14
Pyrene	mg/kg	0.05	MCERTS	0.13
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.08
Chrysene	mg/kg	0.05	MCERTS	0.09
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.17
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.07
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.07
Total PAH				
Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80

Analytical Report Number: 25-013442
Project / Site name: CTC
Your Order No: 0112

Lab Sample Number				484902
Sample Reference				TS2-03
Sample Number				None Supplied
Water Matrix				N/A
Depth (m)				None Supplied
Date Sampled				18/03/2025
Time Taken				1315
Analytical Parameter (Soil Analysis)	**Units**	**Test Limit of detection**	**Test Accreditation Status**	
Heavy Metals / Metalloids				
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	6.6
Boron (water soluble)	mg/kg	0.2	MCERTS	3.1
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8
Chromium (III)	mg/kg	1	NONE	13
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	14
Copper (aqua regia extractable)	mg/kg	1	MCERTS	22
Lead (aqua regia extractable)	mg/kg	1	MCERTS	16
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	10
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	19
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	51
Petroleum Hydrocarbons				
TPHCWG - Aliphatic >EC5 - EC6 $_{HS\_1D\_AL}$	mg/kg	0.01	MCERTS	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 $_{HS\_1D\_AL}$	mg/kg	0.01	MCERTS	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 $_{HS\_1D\_AL}$	mg/kg	0.01	MCERTS	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 $_{EH\_CU\_1D\_AL}$	mg/kg	1	MCERTS	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 $_{EH\_CU\_1D\_AL}$	mg/kg	2	MCERTS	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 $_{EH\_CU\_1D\_AL}$	mg/kg	8	MCERTS	< 8.0
TPHCWG - Aliphatic >EC21 - EC35 $_{EH\_CU\_1D\_AL}$	mg/kg	8	MCERTS	< 8.0
TPHCWG - Aliphatic >EC35 - EC44 $_{EH\_CU\_1D\_AL}$	mg/kg	8.4	NONE	< 8.4
TPHCWG - Aliphatic >EC5 - EC35 $_{EH\_CU+HS\_1D\_AL}$	mg/kg	10	NONE	< 10
TPHCWG - Aliphatic >EC5 - EC44 $_{EH\_CU+HS\_1D\_AL}$	mg/kg	10	NONE	< 10
TPHCWG - Aromatic >EC5 - EC7 $_{HS\_1D\_AR}$	mg/kg	0.01	MCERTS	< 0.010
TPHCWG - Aromatic >EC7 - EC8 $_{HS\_1D\_AR}$	mg/kg	0.01	MCERTS	< 0.010
TPHCWG - Aromatic >EC8 - EC10 $_{HS\_1D\_AR}$	mg/kg	0.02	MCERTS	< 0.020
TPHCWG - Aromatic >EC10 - EC12 $_{EH\_CU\_1D\_AR}$	mg/kg	1	MCERTS	< 1.0
TPHCWG - Aromatic >EC12 - EC16 $_{EH\_CU\_1D\_AR}$	mg/kg	2	MCERTS	< 2.0
TPHCWG - Aromatic >EC16 - EC21 $_{EH\_CU\_1D\_AR}$	mg/kg	10	MCERTS	< 10
TPHCWG - Aromatic >EC21 - EC35 $_{EH\_CU\_1D\_AR}$	mg/kg	10	MCERTS	< 10
TPHCWG - Aromatic >EC35 - EC44 $_{EH\_CU\_1D\_AR}$	mg/kg	8.4	NONE	< 8.4
TPHCWG - Aromatic >EC5 - EC35 $_{EH\_CU+HS\_1D\_AR}$	mg/kg	10	NONE	< 10
TPHCWG - Aromatic >EC5 - EC44 $_{EH\_CU+HS\_1D\_AR}$	mg/kg	10	NONE	< 10
TPH Total >EC6 - EC40 $_{EH\_CU+HS\_1D\_TOTAL}$	mg/kg	10	NONE	< 10
Petroleum Range Organics (EC6 - EC10) $_{HS\_1D\_TOTAL}$	mg/kg	1	ISO 17025	< 1.0
TPH (EC10 - EC40) $_{EH\_CU\_1D\_TOTAL}$	mg/kg	10	MCERTS	< 10

Analytical Report Number: 25-013442
Project / Site name: CTC
Your Order No: 0112

Lab Sample Number				484902
Sample Reference				TS2-03
Sample Number				None Supplied
Water Matrix				N/A
Depth (m)				None Supplied
Date Sampled				18/03/2025
Time Taken				1315
Analytical Parameter (Soil Analysis)	**Units**	**Test Limit of detection**	**Test Accreditation Status**	
VOCs				
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	< 8.0
o-Xylene	µg/kg	5	MCERTS	< 5.0

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number : 25-013442
Project / Site name: CTC

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
484897	TS1-01	None Supplied	None Supplied	Brown loam and sand with gravel and vegetation
484898	TS1-02	None Supplied	None Supplied	Brown loam and sand with gravel and vegetation
484899	TS1-03	None Supplied	None Supplied	Brown loam and sand with gravel and vegetation
484900	TS2-01	None Supplied	None Supplied	Brown sand with gravel
484901	TS2-02	None Supplied	None Supplied	Brown sand with gravel
484902	TS2-03	None Supplied	None Supplied	Brown sand with gravel

Analytical Report Number : 25-013442
Project / Site name: CTC

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)
Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	L038B	D	MCERTS
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic	In-house method	L076B/L088-PL	D/W	MCERTS
Total petroleum hydrocarbons by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS	In-house method	L076B/L088-PL	D/W	MCERTS
Complex Cyanide in soil	Determination of complex cyanide by calculation	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Chromium III in soil	In-house method by calculation from total Cr and Cr VI	In-house method by calculation	L080-PL/L130B	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080-PL	W	MCERTS
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS

Analytical Report Number : 25-013442
Project / Site name: CTC

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)
Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Total petroleum hydrocarbons by HS-GC-MS in soil	Determination of total petroleum hydrocarbons in soil by HS-GC-MS	In-house method	L129-PL	W	ISO 17025

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).
For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).
For method numbers ending in 'PL' or 'B' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.
Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.
The result for sum should be interpreted with caution

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Analytical Report Number : 25-019276

Project / Site name:	CTC	**Samples received on:**	15/04/2025
Your job number:	0112	**Samples instructed on/ Analysis started on:**	15/04/2025
Your order number:	0112	**Analysis completed by:**	23/04/2025
Report Issue Number:	1	**Report issued on:**	23/04/2025
Samples Analysed:	4 soil samples		

Signed:

Rafał Szczepańczyk
Technical Reviewer
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting
air	- once the analysis is complete

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 25-019276
Project / Site name: CTC
Your Order No: 0112

Lab Sample Number				514941	514942	514943	514944
Sample Reference				TS3-01	TS3-02	TS3-03	SS01-01
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A
Depth (m)				0.10-0.30	0.10-0.30	0.10-0.30	0.60-0.80
Date Sampled				13/04/2025	13/04/2025	13/04/2025	13/04/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Test Limit of detection**	**Test Accreditation Status**				
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	4.2	1.1	5.8	2.5
Total mass of sample received	kg	0.1	NONE	0.6	0.6	0.5	0.7
Asbestos							
Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	SCA	SCA	SCA	SCA
Analysis completed	N/A	N/A	N/A	18/04/2025	18/04/2025	18/04/2025	18/04/2025
General Inorganics							
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Complex Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Total Phenols							
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Speciated PAHs							
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.1	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.08	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Total PAH							
Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	< 0.80	< 0.80	< 0.80

Analytical Report Number: 25-019276
Project / Site name: CTC
Your Order No: 0112

Lab Sample Number				514941	514942	514943	514944
Sample Reference				TS3-01	TS3-02	TS3-03	SS01-01
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A
Depth (m)				0.10-0.30	0.10-0.30	0.10-0.30	0.60-0.80
Date Sampled				13/04/2025	13/04/2025	13/04/2025	13/04/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Test Limit of detection**	**Test Accreditation Status**				
Heavy Metals / Metalloids							
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	13	20	28	18
Boron (water soluble)	mg/kg	0.2	MCERTS	1.8	2.4	2.3	0.4
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	15	23	29	21
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	16	24	30	21
Copper (aqua regia extractable)	mg/kg	1	MCERTS	13	10	12	7.2
Lead (aqua regia extractable)	mg/kg	1	MCERTS	8.3	11	14	5.1
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	10	13	19	15
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	49	69	84	74
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	30	40	61	28
Petroleum Hydrocarbons							
TPHCWG - Aliphatic >EC5 - EC6 $_{HS\_1D\_AL}$	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 $_{HS\_1D\_AL}$	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 $_{HS\_1D\_AL}$	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 $_{EH\_CU\_1D\_AL}$	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 $_{EH\_CU\_1D\_AL}$	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 $_{EH\_CU\_1D\_AL}$	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC21 - EC35 $_{EH\_CU\_1D\_AL}$	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC35 - EC44 $_{EH\_CU\_1D\_AL}$	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	< 8.4
TPHCWG - Aliphatic >EC5 - EC35 $_{EH\_CU+HS\_1D\_AL}$	mg/kg	10	NONE	< 10	< 10	< 10	< 10
TPHCWG - Aliphatic >EC5 - EC44 $_{EH\_CU+HS\_1D\_AL}$	mg/kg	10	NONE	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC7 $_{HS\_1D\_AR}$	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 $_{HS\_1D\_AR}$	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 $_{HS\_1D\_AR}$	mg/kg	0.02	MCERTS	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aromatic >EC10 - EC12 $_{EH\_CU\_1D\_AR}$	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 $_{EH\_CU\_1D\_AR}$	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 $_{EH\_CU\_1D\_AR}$	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC21 - EC35 $_{EH\_CU\_1D\_AR}$	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC35 - EC44 $_{EH\_CU\_1D\_AR}$	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	< 8.4
TPHCWG - Aromatic >EC5 - EC35 $_{EH\_CU+HS\_1D\_AR}$	mg/kg	10	NONE	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC44 $_{EH\_CU+HS\_1D\_AR}$	mg/kg	10	NONE	< 10	< 10	< 10	< 10
TPH Total >EC6 - EC40 $_{EH\_CU+HS\_1D\_TOTAL}$	mg/kg	10	NONE	< 10	< 10	< 10	< 10
Petroleum Range Organics (EC6 - EC10) $_{HS\_1D\_TOTAL}$	mg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
TPH (EC10 - EC40) $_{EH\_CU\_1D\_TOTAL}$	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10
VOCs							
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0

Analytical Report Number: 25-019276
Project / Site name: CTC
Your Order No: 0112

Lab Sample Number				514941	514942	514943	514944
Sample Reference				TS3-01	TS3-02	TS3-03	SS01-01
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A
Depth (m)				0.10-0.30	0.10-0.30	0.10-0.30	0.60-0.80
Date Sampled				13/04/2025	13/04/2025	13/04/2025	13/04/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Test Limit of detection**	**Test Accreditation Status**				

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number : 25-019276
Project / Site name: CTC

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
514941	TS3-01	None Supplied	0.10-0.30	Brown loam and sand with gravel and vegetation
514942	TS3-02	None Supplied	0.10-0.30	Brown loam and sand with gravel and vegetation
514943	TS3-03	None Supplied	0.10-0.30	Brown loam and sand with gravel and vegetation
514944	SS01-01	None Supplied	0.60-0.80	Brown sand with gravel

Analytical Report Number : 25-019276
Project / Site name: CTC

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)
Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	L038B	D	MCERTS
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic	In-house method	L076B/L088-PL	D/W	MCERTS
Total petroleum hydrocarbons by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS	In-house method	L076B/L088-PL	D/W	MCERTS
Complex Cyanide in soil	Determination of complex cyanide by calculation	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Chromium III in soil	In-house method by calculation from total Cr and Cr VI	In-house method by calculation	L080-PL/L130B	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080-PL	W	MCERTS
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS

Analytical Report Number : 25-019276
Project / Site name: CTC

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)
Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Total petroleum hydrocarbons by HS-GC-MS in soil	Determination of total petroleum hydrocarbons in soil by HS-GC-MS	In-house method	L129-PL	W	ISO 17025
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).
For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).
For method numbers ending in 'PL' or 'B' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.
Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.
The result for sum should be interpreted with caution

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Analytical Report Number : 25-021322

Project / Site name:	CTC	**Samples received on:**	28/04/2025
Your job number:	0112	**Samples instructed on/ Analysis started on:**	28/04/2025
Your order number:	0112	**Analysis completed by:**	02/05/2025
Report Issue Number:	1	**Report issued on:**	02/05/2025
Samples Analysed:	4 soil samples		

Signed:

Anna Goc
PL Head of Reporting Team
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting
air	- once the analysis is complete

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 25-021322
Project / Site name: CTC
Your Order No: 0112

Lab Sample Number				526438	526439	526440	526441
Sample Reference				TS1-04	TS1-05	TS1-06	TS1-07
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				25/03/2025	25/03/2025	25/03/2025	25/03/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Test Limit of detection**	**Test Accreditation Status**				
Stone Content	%	0.1	NONE	15	15.8	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	6.3	9.7	10	7.8
Total mass of sample received	kg	0.1	NONE	1.5	1.5	1.4	1.3
Asbestos							
Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	DKI	DKI	DKI	DKI
Analysis completed	N/A	N/A	N/A	02/05/2025	02/05/2025	02/05/2025	02/05/2025
General Inorganics							
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Complex Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Total Phenols							
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Speciated PAHs							
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.1	< 0.05	< 0.05	0.06
Fluorene	mg/kg	0.05	MCERTS	0.1	< 0.05	< 0.05	0.06
Phenanthrene	mg/kg	0.05	MCERTS	0.66	0.46	0.21	0.49
Anthracene	mg/kg	0.05	MCERTS	0.18	0.11	0.07	0.13
Fluoranthene	mg/kg	0.05	MCERTS	0.83	0.91	0.73	0.87
Pyrene	mg/kg	0.05	MCERTS	0.66	0.75	0.65	0.74
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.3	0.37	0.36	0.35
Chrysene	mg/kg	0.05	MCERTS	0.33	0.35	0.37	0.36
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.37	0.43	0.48	0.47
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.14	0.17	0.18	0.17
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.27	0.33	0.37	0.36
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.16	0.19	0.19	0.2
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.19	0.23	0.21	0.25
Total PAH							
Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	4.28	4.29	3.83	4.5

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Project / Site name: CTC
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Lab Sample Number				526438	526439	526440	526441
Sample Reference				TS1-04	TS1-05	TS1-06	TS1-07
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				25/03/2025	25/03/2025	25/03/2025	25/03/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Test Limit of detection**	**Test Accreditation Status**				
Heavy Metals / Metalloids							
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	7.5	8	6.7	8
Boron (water soluble)	mg/kg	0.2	MCERTS	3.2	2.9	1.4	3.4
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.3	0.3	0.3	0.3
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	13	14	13	14
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	14	15	13	14
Copper (aqua regia extractable)	mg/kg	1	MCERTS	22	22	22	23
Lead (aqua regia extractable)	mg/kg	1	MCERTS	32	38	33	36
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	8.9	9.1	8.6	9
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	20	21	19	20
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	64	71	70	73
Petroleum Hydrocarbons							
TPHCWG - Aliphatic >EC5 - EC6 $_{HS\_1D\_AL}$	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 $_{HS\_1D\_AL}$	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 $_{HS\_1D\_AL}$	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 $_{EH\_CU\_1D\_AL}$	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 $_{EH\_CU\_1D\_AL}$	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	3.2
TPHCWG - Aliphatic >EC16 - EC21 $_{EH\_CU\_1D\_AL}$	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC21 - EC35 $_{EH\_CU\_1D\_AL}$	mg/kg	8	MCERTS	34	21	19	43
TPHCWG - Aliphatic >EC35 - EC44 $_{EH\_CU\_1D\_AL}$	mg/kg	8.4	NONE	< 8.4	16	< 8.4	26
TPHCWG - Aliphatic >EC5 - EC35 $_{EH\_CU+HS\_1D\_AL}$	mg/kg	10	NONE	34	21	19	46
TPHCWG - Aliphatic >EC5 - EC44 $_{EH\_CU+HS\_1D\_AL}$	mg/kg	10	NONE	34	38	19	72
TPHCWG - Aromatic >EC5 - EC7 $_{HS\_1D\_AR}$	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 $_{HS\_1D\_AR}$	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 $_{HS\_1D\_AR}$	mg/kg	0.02	MCERTS	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aromatic >EC10 - EC12 $_{EH\_CU\_1D\_AR}$	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 $_{EH\_CU\_1D\_AR}$	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 $_{EH\_CU\_1D\_AR}$	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC21 - EC35 $_{EH\_CU\_1D\_AR}$	mg/kg	10	MCERTS	27	13	17	12
TPHCWG - Aromatic >EC35 - EC44 $_{EH\_CU\_1D\_AR}$	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	< 8.4
TPHCWG - Aromatic >EC5 - EC35 $_{EH\_CU+HS\_1D\_AR}$	mg/kg	10	NONE	27	13	17	12
TPHCWG - Aromatic >EC5 - EC44 $_{EH\_CU+HS\_1D\_AR}$	mg/kg	10	NONE	27	13	17	12
TPH Total >EC6 - EC40 $_{EH\_CU+HS\_1D\_TOTAL}$	mg/kg	10	NONE	79	46	40	80
Petroleum Range Organics (EC6 - EC10) $_{HS\_1D\_TOTAL}$	mg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
TPH (EC10 - EC40) $_{EH\_CU\_1D\_TOTAL}$	mg/kg	10	MCERTS	79	46	40	80
VOCs							
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0

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Lab Sample Number				526438	526439	526440	526441
Sample Reference				TS1-04	TS1-05	TS1-06	TS1-07
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				25/03/2025	25/03/2025	25/03/2025	25/03/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status				

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

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* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
526438	TS1-04	None Supplied	None Supplied	Brown loam and sand with vegetation and stones
526439	TS1-05	None Supplied	None Supplied	Brown loam and sand with vegetation and stones
526440	TS1-06	None Supplied	None Supplied	Brown loam and sand with gravel and vegetation
526441	TS1-07	None Supplied	None Supplied	Brown loam and sand with gravel and vegetation

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Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)
Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	L038B	D	MCERTS
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic	In-house method	L076B/L088-PL	D/W	MCERTS
Total petroleum hydrocarbons by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS	In-house method	L076B/L088-PL	D/W	MCERTS
Complex Cyanide in soil	Determination of complex cyanide by calculation	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Chromium III in soil	In-house method by calculation from total Cr and Cr VI	In-house method by calculation	L080-PL/L130B	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080-PL	W	MCERTS
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS

Analytical Report Number : 25-021322
Project / Site name: CTC

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)
Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Total petroleum hydrocarbons by HS-GC-MS in soil	Determination of total petroleum hydrocarbons in soil by HS-GC-MS	In-house method	L129-PL	W	ISO 17025
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).
For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).
For method numbers ending in 'PL' or 'B' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.
Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.
The result for sum should be interpreted with caution

Analytical Report Number : 25-021322
Project / Site name: CTC

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis.Please note that the associated result(s) may be unreliable and should be interpreted with care.

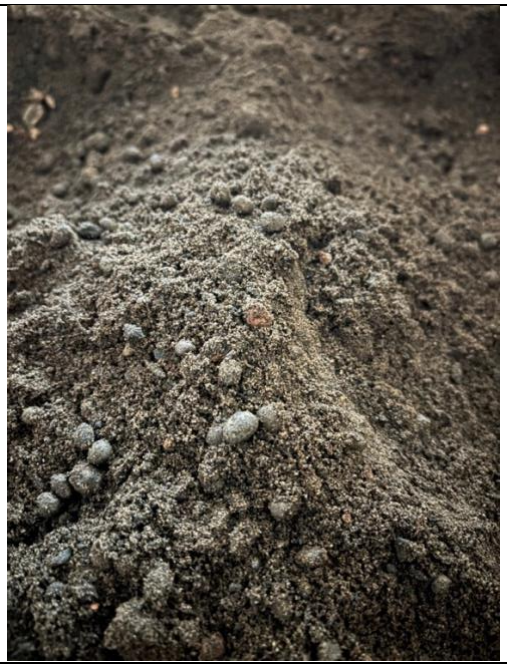
Key: a - No sampling date b - Incorrect container c - Holding time d - Headspace e - Temperature

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
TS1-04	N/A	S	526438	c	BTEX and/or Volatile organic compounds in soil	L073B	c
TS1-04	N/A	S	526438	c	Chromium III in soil	L080-PL/L130B	c
TS1-04	N/A	S	526438	c	Complex Cyanide in soil	L080-PL	c
TS1-04	N/A	S	526438	c	Free cyanide in soil	L080-PL	c
TS1-04	N/A	S	526438	c	Hexavalent chromium in soil	L080-PL	c
TS1-04	N/A	S	526438	c	Metals in soil by ICP-OES	L038B	c
TS1-04	N/A	S	526438	c	Monohydric phenols in soil	L080-PL	c
TS1-04	N/A	S	526438	c	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	c
TS1-04	N/A	S	526438	c	Total cyanide in soil	L080-PL	c
TS1-04	N/A	S	526438	c	Total petroleum hydrocarbons by GC-FID/GC-MS HS in soil	L076B/L088-PL	c
TS1-04	N/A	S	526438	c	Total petroleum hydrocarbons by HS-GC-MS in soil	L129-PL	c
TS1-04	N/A	S	526438	c	Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	L076B/L088-PL	c
TS1-05	N/A	S	526439	c	BTEX and/or Volatile organic compounds in soil	L073B	c
TS1-05	N/A	S	526439	c	Chromium III in soil	L080-PL/L130B	c
TS1-05	N/A	S	526439	c	Complex Cyanide in soil	L080-PL	c
TS1-05	N/A	S	526439	c	Free cyanide in soil	L080-PL	c
TS1-05	N/A	S	526439	c	Hexavalent chromium in soil	L080-PL	c
TS1-05	N/A	S	526439	c	Metals in soil by ICP-OES	L038B	c
TS1-05	N/A	S	526439	c	Monohydric phenols in soil	L080-PL	c
TS1-05	N/A	S	526439	c	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	c
TS1-05	N/A	S	526439	c	Total cyanide in soil	L080-PL	c
TS1-05	N/A	S	526439	c	Total petroleum hydrocarbons by GC-FID/GC-MS HS in soil	L076B/L088-PL	c
TS1-05	N/A	S	526439	c	Total petroleum hydrocarbons by HS-GC-MS in soil	L129-PL	c
TS1-05	N/A	S	526439	c	Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	L076B/L088-PL	c
TS1-06	N/A	S	526440	c	BTEX and/or Volatile organic compounds in soil	L073B	c
TS1-06	N/A	S	526440	c	Chromium III in soil	L080-PL/L130B	c
TS1-06	N/A	S	526440	c	Complex Cyanide in soil	L080-PL	c
TS1-06	N/A	S	526440	c	Free cyanide in soil	L080-PL	c
TS1-06	N/A	S	526440	c	Hexavalent chromium in soil	L080-PL	c
TS1-06	N/A	S	526440	c	Metals in soil by ICP-OES	L038B	c
TS1-06	N/A	S	526440	c	Monohydric phenols in soil	L080-PL	c
TS1-06	N/A	S	526440	c	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	c
TS1-06	N/A	S	526440	c	Total cyanide in soil	L080-PL	c
TS1-06	N/A	S	526440	c	Total petroleum hydrocarbons by GC-FID/GC-MS HS in soil	L076B/L088-PL	c
TS1-06	N/A	S	526440	c	Total petroleum hydrocarbons by HS-GC-MS in soil	L129-PL	c
TS1-06	N/A	S	526440	c	Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	L076B/L088-PL	c
TS1-07	N/A	S	526441	c	BTEX and/or Volatile organic compounds in soil	L073B	c
TS1-07	N/A	S	526441	c	Chromium III in soil	L080-PL/L130B	c
TS1-07	N/A	S	526441	c	Complex Cyanide in soil	L080-PL	c
TS1-07	N/A	S	526441	c	Free cyanide in soil	L080-PL	c
TS1-07	N/A	S	526441	c	Hexavalent chromium in soil	L080-PL	c
TS1-07	N/A	S	526441	c	Metals in soil by ICP-OES	L038B	c
TS1-07	N/A	S	526441	c	Monohydric phenols in soil	L080-PL	c
TS1-07	N/A	S	526441	c	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	c
TS1-07	N/A	S	526441	c	Total cyanide in soil	L080-PL	c
TS1-07	N/A	S	526441	c	Total petroleum hydrocarbons by GC-FID/GC-MS HS in soil	L076B/L088-PL	c
TS1-07	N/A	S	526441	c	Total petroleum hydrocarbons by HS-GC-MS in soil	L129-PL	c
TS1-07	N/A	S	526441	c	Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	L076B/L088-PL	c

Appendix D – Site Photographs

APPENDIX D – Site Photographs

Representative photo showing bulk bags with imported topsoil prior to placement



Soil texture of imported topsoil (TS2 and TS3)

Soil texture of imported topsoil (TS1)

APPENDIX D – Site Photographs

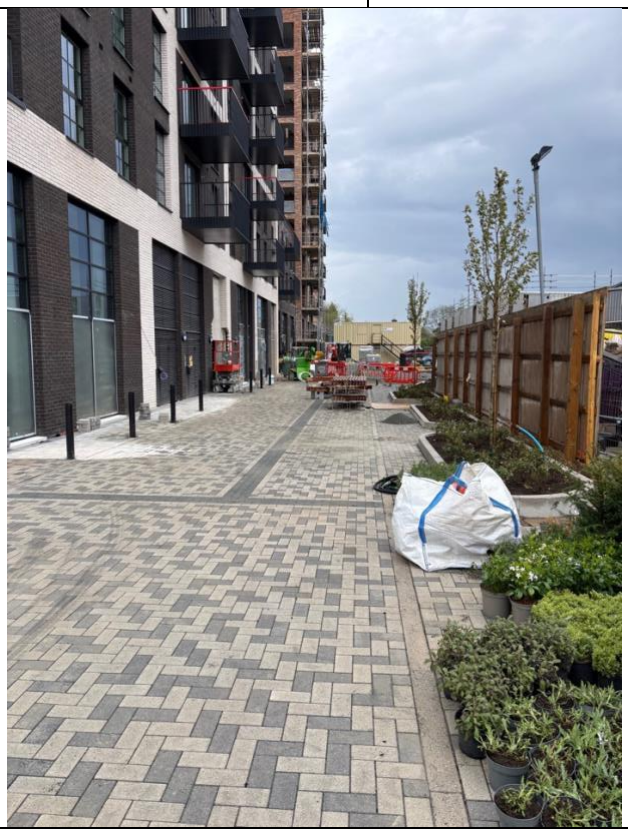
Representative photos showing marker layer and topsoil within area of installed utilities in Block F

Representative photo showing marker layer and topsoil within asset protection in Block F

APPENDIX D – Site Photographs

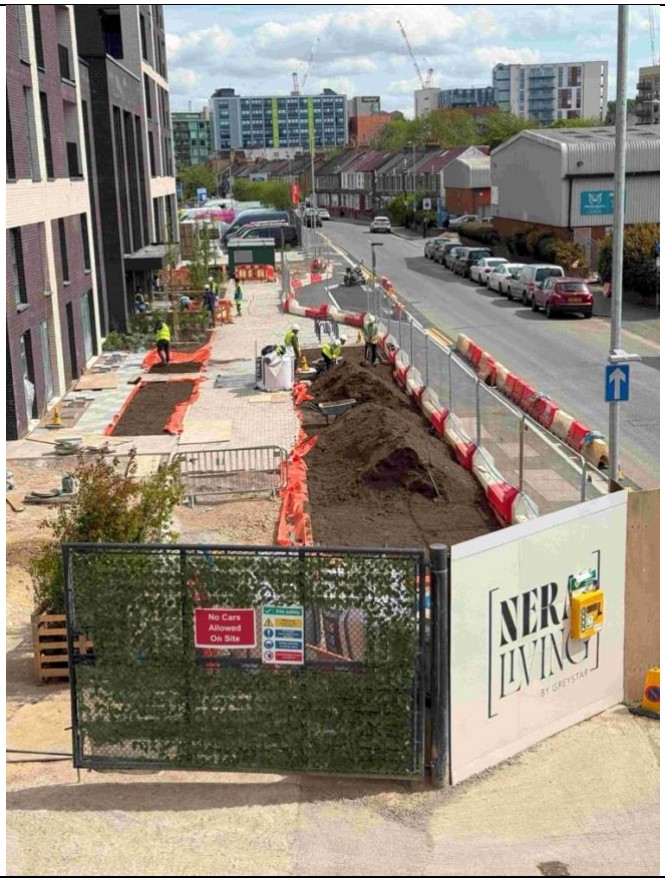
Reduced thickness example within asset protection in Block F

600mm thickness example within Block F (Ground Level)



Examples of completed landscaped areas (with planting) in Block F (east side)

APPENDIX D – Site Photographs



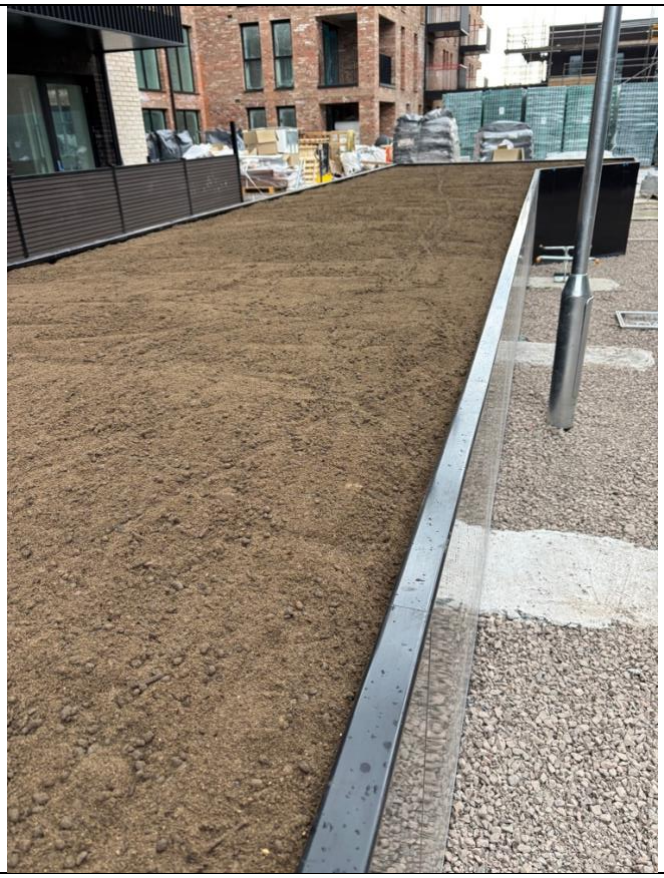
Overview of soft landscape construction in Blocks E and F

600mm thickness example within Block E (Ground Level)

Landscaping in Block F (Podium Level)

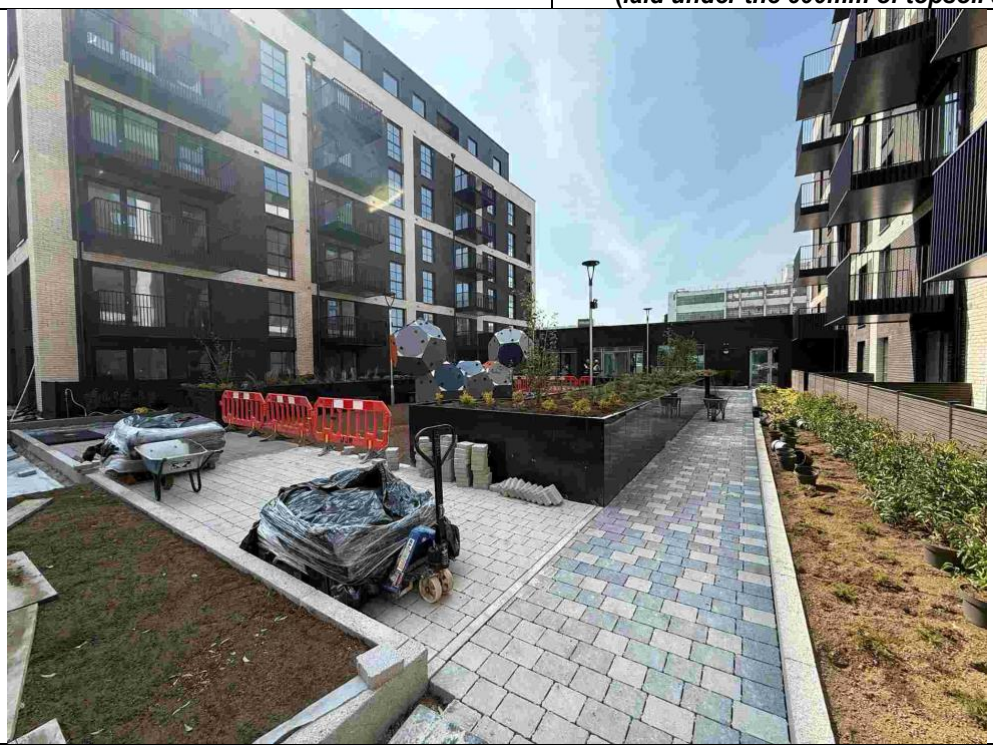
Thickness example (600mm) within podium prior to topsoil placement in Block F

APPENDIX D – Site Photographs



Thickness after topsoil placement in Block F Podium

Representative photo showing bulk bag with imported sand prior to placement (*laid under the 600mm of topsoil at podium level*)



Topsoil Example (Block E Podium)

APPENDIX D – Site Photographs

Progress in Block C (East Side)

Progress in Block C (East Side)

APPENDIX D – Site Photographs

Topsoiling and Landscaping Complete in Block C (East Side)

Marker Layer being laid (Block C – Example)

60cm Depth of Topsoil (Block C – Example)

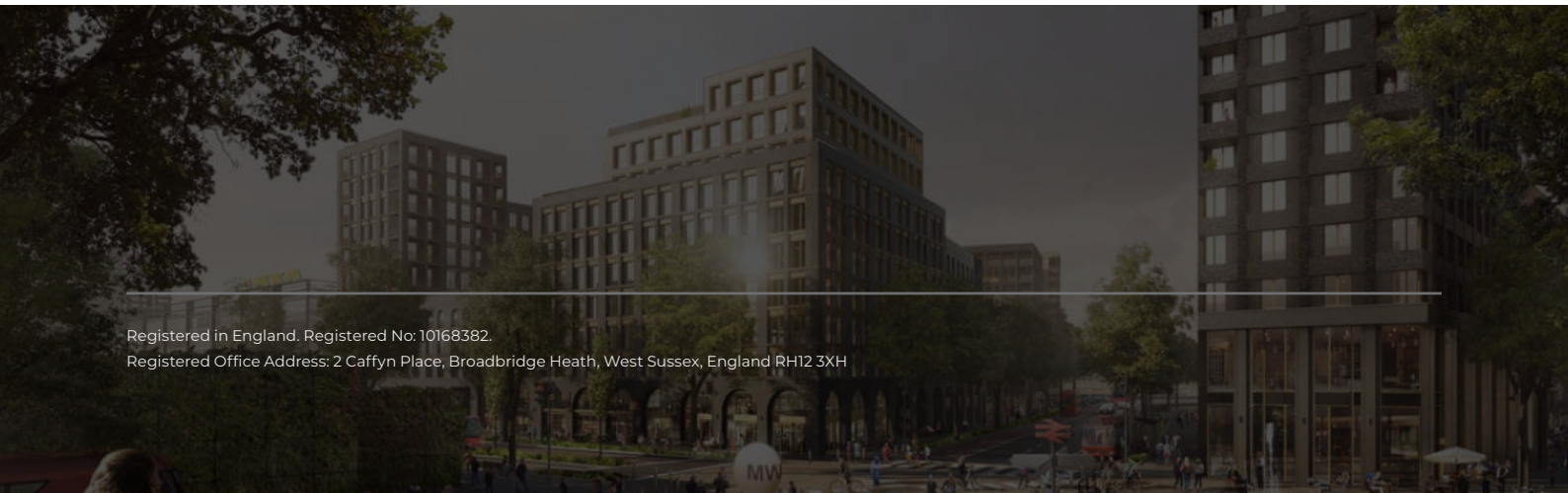
APPENDIX D – Site Photographs

Topsoiling and Landscaping Complete in Block C (North Side)

Turnkey Regeneration

Turnkey Regeneration Ltd
2 Caffyn Place
Broadbridge Heath
Horsham RH12 3XH

www.turnkeyregeneration.com



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