



Analytical Report Number: 24-028869
Project / Site name: Ardrossan North Shore
Your Order No: S3240

Lab Sample Number	247374	247375	247376	247377	247378
Sample Reference	TSP06-06H	TSP06-07H	TSP06-08H	TSP06-09H	TSP06-10H
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	02/07/2024	02/07/2024	02/07/2024	02/07/2024	02/07/2024
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Unit	Limit of detection	Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	5.8	8.8	9.2	6.8	8.8
Total mass of sample received	kg	0.1	NONE	1.3	1.3	1.3	1.3	1.2

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Detected	Detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	EC	EC	EC	EC	EC
Actinolite detected	Type	N/A	ISO 17025	-	-	Not-detected	Not-detected	-
Amosite detected	Type	N/A	ISO 17025	-	-	Detected	Not-detected	-
Anthophyllite detected	Type	N/A	ISO 17025	-	-	Not-detected	Not-detected	-
Chrysotile detected	Type	N/A	ISO 17025	-	-	Not-detected	Detected	-
Crocidolite detected	Type	N/A	ISO 17025	-	-	Not-detected	Not-detected	-
Tremolite detected	Type	N/A	ISO 17025	-	-	Not-detected	Not-detected	-

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	-	-	0.001	< 0.001	-
-------------------------------------	---	-------	-----------	---	---	-------	---------	---

Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	-	Bitumen	Loose Fibres	-
---	------	-----	-----------	---	---	---------	--------------	---

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	0.17	0.21	0.16	0.18
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.17	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	0.11	0.14	0.13	0.12
Fluorene	mg/kg	0.05	MCERTS	< 0.05	0.09	0.26	< 0.05	0.13
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	0.19	0.91	0.5	0.31
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.57	< 0.05	0.16
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.32	2.3	0.79	0.51
Pyrene	mg/kg	0.05	MCERTS	< 0.05	0.67	3.8	1.2	0.88
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.16	1.7	0.39	0.83
Chrysene	mg/kg	0.05	MCERTS	< 0.05	0.52	2	0.66	0.91
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	0.3	1.8	0.42	0.44
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	0.06	0.56	0.17	0.44
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.22	1.8	0.42	0.28
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.09	0.83	0.23	0.15
Dibenzo(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.31	< 0.05	0.11
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	0.17	1.1	0.29	0.21

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	3.08	18.5	5.37	5.66
-----------------------------	-------	-----	-----------	--------	------	------	------	------

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS, 1D, AL}	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >EC6 - EC8 _{HS, 1D, AL}	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >EC8 - EC10 _{HS, 1D, AL}	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aliphatic >EC10 - EC12 _{EH, CU, 1D, AL}	mg/kg	1	MCERTS	< 1.0	27	42	27	66
TPHCWG - Aliphatic >EC12 - EC16 _{EH, CU, 1D, AL}	mg/kg	2	MCERTS	13	490	390	620	600
TPHCWG - Aliphatic >EC16 - EC21 _{EH, CU, 1D, AL}	mg/kg	8	MCERTS	38	720	630	640	730
TPHCWG - Aliphatic >EC21 - EC35 _{EH, CU, 1D, AL}	mg/kg	8	MCERTS	62	870	1200	1100	860
TPHCWG - Aliphatic >EC35 - EC35 _{EH, CU+HS, 1D, AL}	mg/kg	10	NONE	110	2100	2200	2400	2300

TPHCWG - Aromatic >EC5 - EC7 _{HS, 1D, AR}	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS, 1D, AR}	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010



4041



Environmental Science

Analytical Report Number: 24-028869
Project / Site name: Ardrossan North Shore
Your Order No: S3240

Lab Sample Number				247374	247375	247376	247377	247378			
Sample Reference				TSP06-06H	TSP06-07H	TSP06-08H	TSP06-09H	TSP06-10H			
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Date Sampled				02/07/2024	02/07/2024	02/07/2024	02/07/2024	02/07/2024			
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status								
TPHCWG - Aromatic >EC8 - EC10 _{HS_ID_AR}	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050			
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_ID_AR}	mg/kg	1	MCERTS	< 1.0	2.8	1.2	2.4	8			
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_ID_AR}	mg/kg	2	MCERTS	6.1	150	200	210	190			
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_ID_AR}	mg/kg	10	MCERTS	34	620	450	500	530			
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_ID_AR}	mg/kg	10	MCERTS	68	920	660	740	960			
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_ID_AR}	mg/kg	10	NONE	110	1700	1300	1400	1700			
TPH (EC10 - EC40) _{EH_CU_ID_TOTAL}				mg/kg	10	MCERTS	230	4000	3800	4100	4200

VOCs

MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 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	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
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: 24-028869
Project / Site name: Ardrossan North Shore
Your Order No: S3240

Lab Sample Number	247379	247380	247381	247382	247383
Sample Reference	TSP06-11H	TSP06-12H	TSP06-13H	TSP06-14H	TSP06-15H
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	02/07/2024	02/07/2024	02/07/2024	02/07/2024	02/07/2024
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	8.4	8.1	6	6.1	6.7
Total mass of sample received	kg	0.1	NONE	1.3	1.2	1.3	1.2	1.3

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	EC	EC	EC	EC	EC
Actinolite detected	Type	N/A	ISO 17025	-	Not-detected	-	-	-
Amosite detected	Type	N/A	ISO 17025	-	Detected	-	-	-
Anthophyllite detected	Type	N/A	ISO 17025	-	Not-detected	-	-	-
Chrysotile detected	Type	N/A	ISO 17025	-	Not-detected	-	-	-
Crocidolite detected	Type	N/A	ISO 17025	-	Not-detected	-	-	-
Tremolite detected	Type	N/A	ISO 17025	-	Not-detected	-	-	-

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	-	0.003	-	-	-
-------------------------------------	---	-------	-----------	---	-------	---	---	---

Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	Loose Fibres	-	-	-
---	------	-----	-----------	---	--------------	---	---	---

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.23	< 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	0.07	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	0.61	0.14	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.15	< 0.05	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.41	< 0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	0.87	0.95	0.09	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.23	0.25	0.07	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	0.59	0.68	0.09	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	0.07	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.17	< 0.05	< 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	< 0.05	0.26	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	2.74	2.85	< 0.80	< 0.80	< 0.80
-----------------------------	-------	-----	-----------	------	------	--------	--------	--------

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 HS, 1D, AL	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >EC6 - EC8 HS, 1D, AL	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >EC8 - EC10 HS, 1D, AL	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aliphatic >EC10 - EC12 EH, CU, 1D, AL	mg/kg	1	MCERTS	83	33	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 EH, CU, 1D, AL	mg/kg	2	MCERTS	470	600	19	9.7	21
TPHCWG - Aliphatic >EC16 - EC21 EH, CU, 1D, AL	mg/kg	8	MCERTS	700	750	57	34	59
TPHCWG - Aliphatic >EC21 - EC35 EH, CU, 1D, AL	mg/kg	8	MCERTS	1200	990	89	49	84
TPHCWG - Aliphatic >EC35 - EC35 EH, CU, HS, 1D, AL	mg/kg	10	NONE	2400	2400	170	93	160

TPHCWG - Aromatic >EC5 - EC7 HS, 1D, AR	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 HS, 1D, AR	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010



4041



Environmental Science

Analytical Report Number: 24-028869

Project / Site name: Ardrossan North Shore

Your Order No: S3240

Lab Sample Number				247379	247380	247381	247382	247383
Sample Reference				TSP06-11H	TSP06-12H	TSP06-13H	TSP06-14H	TSP06-15H
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				02/07/2024	02/07/2024	02/07/2024	02/07/2024	02/07/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
TPHCWG - Aromatic >EC8 - EC10 _{EH,CU,10,AR}	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aromatic >EC10 - EC12 _{EH,CU,10,AR}	mg/kg	1	MCERTS	9.2	6.7	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH,CU,10,AR}	mg/kg	2	MCERTS	210	230	17	13	16
TPHCWG - Aromatic >EC16 - EC21 _{EH,CU,10,AR}	mg/kg	10	MCERTS	550	560	70	45	59
TPHCWG - Aromatic >EC21 - EC35 _{EH,CU,10,AR}	mg/kg	10	MCERTS	980	890	130	87	130
TPHCWG - Aromatic >EC35 - EC40 _{EH,CU,10,AR}	mg/kg	10	NONE	1800	1700	220	150	200

TPH (EC10 - EC40) _{EH,CU,10,TOTAL}	mg/kg	10	MCERTS	4500	4400	430	260	390
---	-------	----	--------	------	------	-----	-----	-----

VOCs

MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 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	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
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: 24-028869
Project / Site name: Ardrossan North Shore
Your Order No: S3240

Lab Sample Number	247384	247385
Sample Reference	TSP06-16H	TSP06-17H
Sample Number	None Supplied	None Supplied
Depth (m)	None Supplied	None Supplied
Date Sampled	02/07/2024	02/07/2024
Time Taken	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection
		Accreditation Status

Stone Content	%	0.1	NONE	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	6.3	5.7
Total mass of sample received	kg	0.1	NONE	1.3	1.2

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	EC	EC
Actinolite detected	Type	N/A	ISO 17025	-	-
Amosite detected	Type	N/A	ISO 17025	-	-
Anthophyllite detected	Type	N/A	ISO 17025	-	-
Chrysotile detected	Type	N/A	ISO 17025	-	-
Crocidolite detected	Type	N/A	ISO 17025	-	-
Tremolite detected	Type	N/A	ISO 17025	-	-

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	-	-
-------------------------------------	---	-------	-----------	---	---

Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	-
---	------	-----	-----------	---	---

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.3	< 0.05
Pyrene	mg/kg	0.05	MCERTS	0.37	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.92	< 0.05
Chrysene	mg/kg	0.05	MCERTS	0.87	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	1.3	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.51	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1.1	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.56	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.17	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.51	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	6.61	< 0.80
-----------------------------	-------	-----	-----------	------	--------

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS, 1D, AL}	mg/kg	0.02	NONE	< 0.020	< 0.020
TPHCWG - Aliphatic >EC6 - EC8 _{HS, 1D, AL}	mg/kg	0.02	NONE	< 0.020	< 0.020
TPHCWG - Aliphatic >EC8 - EC10 _{HS, 1D, AL}	mg/kg	0.05	NONE	< 0.050	< 0.050
TPHCWG - Aliphatic >EC10 - EC12 _{EH, CU, 1D, AL}	mg/kg	1	MCERTS	2.7	2.9
TPHCWG - Aliphatic >EC12 - EC16 _{EH, CU, 1D, AL}	mg/kg	2	MCERTS	18	20
TPHCWG - Aliphatic >EC16 - EC21 _{EH, CU, 1D, AL}	mg/kg	8	MCERTS	51	52
TPHCWG - Aliphatic >EC21 - EC35 _{EH, CU, 1D, AL}	mg/kg	8	MCERTS	81	79
TPHCWG - Aliphatic >EC5 - EC35 _{EH, CU+HS, 1D, AL}	mg/kg	10	NONE	150	150

TPHCWG - Aromatic >EC5 - EC7 _{HS, 1D, AR}	mg/kg	0.01	NONE	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS, 1D, AR}	mg/kg	0.01	NONE	< 0.010	< 0.010

Analytical Report Number: 24-028869
Project / Site name: Ardrossan North Shore
Your Order No: S3240

Lab Sample Number				247384	247385
Sample Reference				TSP06-16H	TSP06-17H
Sample Number				None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied
Date Sampled				02/07/2024	02/07/2024
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		
TPHCWG - Aromatic >EC8 - EC10 HS ₁₀ _AR	mg/kg	0.05	NONE	< 0.050	< 0.050
TPHCWG - Aromatic >EC10 - EC12 EH _{CU} _10_AR	mg/kg	1	MCERTS	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 EH _{CU} _10_AR	mg/kg	2	MCERTS	14	5
TPHCWG - Aromatic >EC16 - EC21 EH _{CU} _10_AR	mg/kg	10	MCERTS	57	41
TPHCWG - Aromatic >EC21 - EC35 EH _{CU} _10_AR	mg/kg	10	MCERTS	92	68
TPHCWG - Aromatic >EC5 - EC35 EH _{CU} +HS ₁₀ _AR	mg/kg	10	NONE	160	110
TPH (EC10 - EC40) EH _{CU} _10_TOTAL				330	280

VOCs

MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0
p & m-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0

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



Analytical Report Number: 24-028869
Project / Site name: Ardrossan North Shore
Your Order No: S3240

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative Analysis

The analysis was carried out using our documented in-house method A006 based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample
247376	TSP06-08H		164	Bitumen	Amosite	0.001	0.001
247377	TSP06-09H		160	Loose Fibres	Chrysotile	< 0.001	< 0.001
247380	TSP06-12H		177	Loose Fibres	Amosite	0.003	0.003

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.



Analytical Report Number : 24-028869
Project / Site name: Ardrossan North Shore

* 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 *
247369	TSP06-01H	None Supplied	None Supplied	Brown sand with gravel
247370	TSP06-02H	None Supplied	None Supplied	Brown sand with gravel
247371	TSP06-03H	None Supplied	None Supplied	Brown sand with gravel
247372	TSP06-04H	None Supplied	None Supplied	Brown sand with gravel
247373	TSP06-05H	None Supplied	None Supplied	Brown sand with gravel
247374	TSP06-06H	None Supplied	None Supplied	Brown sand with gravel
247375	TSP06-07H	None Supplied	None Supplied	Brown clay and sand with gravel
247376	TSP06-08H	None Supplied	None Supplied	Brown clay and sand with gravel
247377	TSP06-09H	None Supplied	None Supplied	Brown clay and sand with gravel
247378	TSP06-10H	None Supplied	None Supplied	Brown clay and sand with gravel
247379	TSP06-11H	None Supplied	None Supplied	Brown clay and sand with gravel
247380	TSP06-12H	None Supplied	None Supplied	Brown clay and sand with gravel
247381	TSP06-13H	None Supplied	None Supplied	Brown sand with gravel
247382	TSP06-14H	None Supplied	None Supplied	Brown sand with gravel
247383	TSP06-15H	None Supplied	None Supplied	Brown sand with gravel
247384	TSP06-16H	None Supplied	None Supplied	Brown sand with gravel
247385	TSP06-17H	None Supplied	None Supplied	Brown sand with gravel

Analytical Report Number : 24-028869
Project / Site name: Ardrossan North Shore

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (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	A0018	D	ISO 17025
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references	HSE Report No: 83/1996, HSG 248 (2021), HSG 264 (2012) & SCA Blue Book (draft)	A0068	D	ISO 17025
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L0198	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.	L0198	D	NONE
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	L0648	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	L0738	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	L0768/L088	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	L0768/L088	D/W	MCERTS

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 30°C.
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



Amended Report

Report No.:	24-22172-3		
Initial Date of Issue:	16-Jul-2024	Date of Re-Issue:	29-Jul-2024
Re-Issue Details:	This report has been revised and directly supersedes 24-22172-2 in its entirety		
Client	Sanctus Limited		
Client Address:	1 Olympus Park Business Centre Quedgeley Gloucester Gloucestershire GL2 4DH		
Contact(s):	Labs		
Project	S3240 Ardrossan North Shore		
Quotation No.:	Q24-35340	Date Received:	12-Jul-2024
Order No.:	S3240	Date Instructed:	12-Jul-2024
No. of Samples:	17		
Turnaround (Wkdays):	12	Results Due:	29-Jul-2024
Date Approved:	29-Jul-2024		
Approved By:			

Details:  Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-22172	24-22172	24-22172	24-22172	24-22172	24-22172	24-22172	24-22172	24-22172	24-22172	24-22172
Quotation No.: Q24-35340		Chemtest Sample ID.:	1834440	1834441	1834442	1834443	1834444	1834445	1834446	1834447			
Order No.: S3240		Client Sample Ref.:	TSP06	TSP06	TSP06	TSP06	TSP06	TSP06	TSP06	TSP06	TSP06	TSP06	TSP06
		Client Sample ID.:	TSP06-011	TSP06-021	TSP06-031	TSP06-041	TSP06-051	TSP06-061	TSP06-071	TSP06-081			
		Sample Location:	TSP06	TSP06	TSP06	TSP06	TSP06	TSP06	TSP06	TSP06	TSP06	TSP06	TSP06
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Date Sampled:	10-Jul-2024	10-Jul-2024	10-Jul-2024	10-Jul-2024	10-Jul-2024	10-Jul-2024	10-Jul-2024	10-Jul-2024	10-Jul-2024	10-Jul-2024	10-Jul-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Moisture		N	2030	%	0.020	11	10	11	14	10	11	9.7	11
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones and Roots	Stones and Roots	Stones	Stones	Stones and Roots	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	17	40	15	24	20	23	11	22
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	30	210	40	85	52	86	34	73
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	17	360	41	95	86	96	32	54
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	18	110	19	29	20	44	18	29
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	82	720	120	230	180	250	95	180
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	82	720	120	230	180	250	95	180
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	2.4	15	2.6	2.8	5.6	3.2	1.2	2.1
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	75	76	22	26	65	19	28	22
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	190	120	59	49	120	47	76	57
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	50	85	27	45	67	34	30	39
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	17	64	4.1	16	43	38	6.2	14
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	310	290	110	120	260	100	130	120
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	330	360	120	140	300	140	140	130
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	400	1000	230	360	440	350	230	300
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	410	1100	230	370	480	390	240	310
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	0.88	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.1
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.: 24-22172 24-22172 24-22172 24-22172 24-22172 24-22172 24-22172 24-22172 24-22172										
Quotation No.: Q24-35340		Chemtest Sample ID.: 1834440 1834441 1834442 1834443 1834444 1834445 1834446 1834447										
Order No.: S3240		Client Sample Ref.: TSP06 TSP06 TSP06 TSP06 TSP06 TSP06 TSP06 TSP06 TSP06 TSP06										
		Client Sample ID.: TSP06-01I TSP06-02I TSP06-03I TSP06-04I TSP06-05I TSP06-06I TSP06-07I TSP06-08I										
		Sample Location: TSP06 TSP06 TSP06 TSP06 TSP06 TSP06 TSP06 TSP06 TSP06 TSP06										
		Sample Type: SOIL SOIL SOIL SOIL SOIL SOIL SOIL SOIL SOIL SOIL										
		Date Sampled: 10-Jul-2024 10-Jul-2024 10-Jul-2024 10-Jul-2024 10-Jul-2024 10-Jul-2024 10-Jul-2024 10-Jul-2024 10-Jul-2024 10-Jul-2024										
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.40	< 0.10	< 0.10	0.35	< 0.10	< 0.10	0.26
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.17	< 0.10	< 0.10	0.23
Fluoranthene		M	2800	mg/kg	0.10	0.66	< 0.10	< 0.10	0.56	< 0.10	< 0.10	0.42
Pyrene		M	2800	mg/kg	0.10	0.63	< 0.10	< 0.10	0.58	< 0.10	< 0.10	0.41
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.23
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.29
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.61
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.44
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.47
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	2.3
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	3.1
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.9
Total Of 16 PAH's		N	2800	mg/kg	2.0	2.6	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	12

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.: 24-22172											
Quotation No.: Q24-35340		Chemtest Sample ID.: 1834448											
Order No.: S3240		Client Sample Ref.: TSP06											
		Client Sample ID.: TSP06-09I											
		Sample Location: TSP06											
		Sample Type: SOIL											
		Date Sampled: 10-Jul-2024											
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Moisture		N	2030	%	0.020	10	11	10	10	9.5	9.9	11	11
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones and Roots	Stones	Stones	Stones and Roots	Stones and Roots	Stones and Roots	Stones	Stones and Roots
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	13	13	62	23	12	19	14	19
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	47	38	86	64	46	54	62	11
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	47	46	59	62	67	54	67	3.7
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	28	25	23	20	26	26	34	13
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	130	120	230	170	150	150	180	46
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	130	120	230	170	150	150	180	46
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	2.1	1.1	4.6	3.2	2.1	3.6	3.3	4.8
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	16	22	16	55	22	33	21	180
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	72	70	36	120	69	84	74	310
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	35	41	23	55	57	44	46	44
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	14	9.1	5.5	26	24	11	16	19
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	120	130	80	240	150	160	140	530
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	140	140	85	260	170	180	160	550
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	260	250	310	400	300	320	320	580
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	270	260	320	430	330	330	340	600
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	1.1	< 0.10	< 0.10	1.1	< 0.10	1.1	< 0.10	1.1
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-22172	24-22172	24-22172	24-22172	24-22172	24-22172	24-22172	24-22172	24-22172	24-22172	24-22172
Quotation No.: Q24-35340		Chemtest Sample ID.:	1834448	1834449	1834450	1834451	1834452	1834453	1834454	1834455			
Order No.: S3240		Client Sample Ref.:	TSP06	TSP06	TSP06	TSP06	TSP06	TSP06	TSP06	TSP06	TSP06	TSP06	TSP06
		Client Sample ID.:	TSP06-09I	TSP06-10I	TSP06-11I	TSP06-12I	TSP06-13I	TSP06-14I	TSP06-15I	TSP06-16I			
		Sample Location:	TSP06	TSP06	TSP06	TSP06	TSP06	TSP06	TSP06	TSP06	TSP06	TSP06	TSP06
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Date Sampled:	10-Jul-2024	10-Jul-2024	10-Jul-2024	10-Jul-2024	10-Jul-2024	10-Jul-2024	10-Jul-2024	10-Jul-2024	10-Jul-2024	10-Jul-2024	10-Jul-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Acenaphthene		M	2800	mg/kg	0.10	0.13	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	0.14	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.29	< 0.10	< 0.10	0.16	< 0.10	< 0.10	2.0	0.30
Anthracene		M	2800	mg/kg	0.10	0.15	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.38	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	0.49	< 0.10	< 0.10	0.16	< 0.10	0.22	1.6	0.43
Pyrene		M	2800	mg/kg	0.10	0.51	< 0.10	< 0.10	0.19	< 0.10	0.25	1.8	0.43
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.24	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	0.22	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	0.33	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.14	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	0.35	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.25	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.27	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	4.6	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	5.8	2.2

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				24-22172
Quotation No.: Q24-35340		Chemtest Sample ID.:				1834456
Order No.: S3240		Client Sample Ref.:				TSP06
		Client Sample ID.:				TSP06-171
		Sample Location:				TSP06
		Sample Type:				SOIL
		Date Sampled:				10-Jul-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
Moisture		N	2030	%	0.020	11
Soil Colour		N	2040		N/A	Brown
Other Material		N	2040		N/A	Stones
Soil Texture		N	2040		N/A	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	44
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	130
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	140
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	40
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	360
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	360
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	4.5
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	24
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	54
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	56
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	22
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	140
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	160
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	490
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	520
Benzene		M	2760	µg/kg	1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	0.99
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				24-22172
Quotation No.: Q24-35340		Chemtest Sample ID.:				1834456
Order No.: S3240		Client Sample Ref.:				TSP06
		Client Sample ID.:				TSP06-171
		Sample Location:				TSP06
		Sample Type:				SOIL
		Date Sampled:				10-Jul-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
Acenaphthene		M	2800	mg/kg	0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.16
Anthracene		M	2800	mg/kg	0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	0.21
Pyrene		M	2800	mg/kg	0.10	0.24
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8–C10 Aromatics: >C5–C7,>C7–C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request .

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

All Asbestos testing is performed at the indicated laboratory .

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

All water samples will be retained for 14 days from the date of receipt.

Charges may apply to extended sample storage.

Water Sample Category Key for Accreditation

- DW - Drinking Water
- GW - Ground Water
- LE - Land Leachate
- NA - Not Applicable

Report Information

PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com



Chemtest
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.: 24-22812-1

Initial Date of Issue: 22-Jul-2024

Re-Issue Details:

Client Sanctus Limited

Client Address: 1 Olympus Park Business Centre
Quedgeley
Gloucester
Gloucestershire
GL2 4DH

Contact(s): Labs

Project S3240 Androssan North Shore

Quotation No.: Q24-35340

Date Received: 18-Jul-2024

Order No.: S3240

Date Instructed: 18-Jul-2024

No. of Samples: 17

Turnaround (Wkdays): 3

Results Due: 22-Jul-2024

Date Approved: 22-Jul-2024

Approved By:



Details:  Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: S3240 Androssan North Shore

Client: Sanctus Limited		Chemtest Job No.:				24-22812	24-22812	24-22812	24-22812	24-22812	24-22812	24-22812	24-22812
Quotation No.: Q24-35340		Chemtest Sample ID.:				1837275	1837276	1837277	1837278	1837279	1837280	1837281	1837282
Order No.: S3240		Client Sample Ref.:				TSP06	TSP06	TSP06	TSP06	TSP06	TSP06	TSP06	TSP06
		Client Sample ID.:				TSP06-01J	TSP06-02J	TSP06-03J	TSP06-04J	TSP06-05J	TSP06-06J	TSP06-07J	TSP06-08J
		Sample Location:				TSP06	TSP06	TSP06	TSP06	TSP06	TSP06	TSP06	TSP06
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Date Sampled:				16-Jul-2024	16-Jul-2024	16-Jul-2024	16-Jul-2024	16-Jul-2024	16-Jul-2024	16-Jul-2024	16-Jul-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Moisture		N	2030	%	0.020	7.4	8.1	8.2	8.4	7.9	7.9	8.6	7.5
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots
Soil Texture		N	2040		N/A	Loam	Loam	Loam	Loam	Loam	Loam	Loam	Loam
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	22	17	13	13	18	40	15	14
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	80	110	76	53	150	180	88	95
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	170	210	150	140	240	230	170	240
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	140	130	90	130	170	130	110	240
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	21	10	< 10	26	< 10	< 10	< 10	47
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	420	470	330	340	570	580	390	590
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	440	480	330	360	570	580	390	640
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	2.5	< 1.0	< 1.0	< 1.0	1.9	16	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	19	15	13	9.0	19	33	9.6	9.3
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	47	60	52	38	88	71	51	65
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	16	18	21	18	18	16	14	25
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	56	43	73	28	56	42	53	33
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	84	94	86	65	130	140	75	99
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	140	140	160	92	180	180	130	130
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	500	560	420	400	700	720	460	690
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	580	610	490	450	760	760	520	770
Naphthalene		M	2700	mg/kg	0.10	0.39	0.38	0.45	0.78	0.16	0.38	0.41	0.41
Acenaphthylene		M	2700	mg/kg	0.10	0.36	0.42	0.22	0.24	0.46	0.52	0.41	0.53
Acenaphthene		M	2700	mg/kg	0.10	0.40	0.26	0.65	0.80	0.36	0.42	0.55	0.46
Fluorene		M	2700	mg/kg	0.10	0.41	0.63	0.55	0.57	0.34	0.93	0.70	0.63
Phenanthrene		M	2700	mg/kg	0.10	1.3	1.5	4.4	4.7	4.8	2.0	0.77	1.2
Anthracene		M	2700	mg/kg	0.10	0.47	0.26	1.2	1.1	1.2	0.75	0.27	0.59
Fluoranthene		M	2700	mg/kg	0.10	3.4	1.9	5.7	4.6	8.7	3.8	2.4	4.0

Results - Soil

Project: S3240 Androssan North Shore

Client: Sanctus Limited		Chemtest Job No.:											
Quotation No.: Q24-35340		Chemtest Sample ID.:											
Order No.: S3240		Client Sample Ref.:											
		Client Sample ID.:											
		Sample Location:											
		Sample Type:											
		Date Sampled:											
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Pyrene		M	2700	mg/kg	0.10	3.7	2.0	5.8	4.4	8.0	3.9	3.0	4.4
Benzo[a]anthracene		M	2700	mg/kg	0.10	1.6	0.99	1.9	1.5	2.6	1.5	0.74	2.0
Chrysene		M	2700	mg/kg	0.10	2.0	0.84	2.4	1.9	3.4	1.8	0.91	2.4
Benzo[b]fluoranthene		M	2700	mg/kg	0.10	3.5	1.6	2.5	2.1	3.9	3.6	2.4	4.3
Benzo[k]fluoranthene		M	2700	mg/kg	0.10	1.2	0.55	0.89	0.79	1.4	1.5	0.83	1.4
Benzo[a]pyrene		M	2700	mg/kg	0.10	2.7	1.5	2.0	1.5	2.6	2.9	1.9	3.3
Indeno(1,2,3-c,d)Pyrene		M	2700	mg/kg	0.10	2.2	1.0	1.5	0.98	1.7	2.3	1.8	2.7
Dibenz(a,h)Anthracene		M	2700	mg/kg	0.10	0.69	< 0.10	0.39	0.17	0.47	0.56	0.46	0.83
Benzo(g,h,i)perylene		M	2700	mg/kg	0.10	2.8	1.6	1.6	1.0	1.9	2.8	2.5	3.4
Total Of 16 PAH's		M	2700	mg/kg	2.0	27	15	32	27	42	30	20	33

Results - Soil

Project: S3240 Androssan North Shore

Client: Sanctus Limited			Chemtest Job No.:	24-22812	24-22812	24-22812	24-22812	24-22812	24-22812	24-22812	24-22812	24-22812	24-22812
Quotation No.: Q24-35340			Chemtest Sample ID.:	1837283	1837284	1837285	1837286	1837287	1837288	1837289	1837290		
Order No.: S3240			Client Sample Ref.:	TSP06	TSP06	TSP06	TSP06	TSP06	TSP06	TSP06	TSP06	TSP06	TSP06
			Client Sample ID.:	TSP06-09J	TSP06-10J	TSP06-11J	TSP06-12J	TSP06-13J	TSP06-14J	TSP06-15J	TSP06-16J		
			Sample Location:	TSP06	TSP06	TSP06	TSP06	TSP06	TSP06	TSP06	TSP06		
			Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
			Date Sampled:	16-Jul-2024	16-Jul-2024	16-Jul-2024	16-Jul-2024	16-Jul-2024	16-Jul-2024	16-Jul-2024	16-Jul-2024		
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Moisture		N	2030	%	0.020	5.5	7.5	8.4	7.8	7.6	7.3	7.2	7.8
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots
Soil Texture		N	2040		N/A	Loam	Loam	Loam	Loam	Loam	Loam	Loam	Loam
Aliphatic VPH >C5-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	18	11	16	20	14	10	8.9	13
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	120	58	110	120	72	65	30	38
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	270	99	210	190	100	190	45	57
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	420	57	63	140	71	210	18	23
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	160	< 10	< 10	11	< 10	37	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	830	230	390	470	260	470	100	130
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	990	230	390	480	260	510	100	130
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	2.4	< 1.0	< 1.0	3.1	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	18	5.0	15	17	9.3	7.7	4.2	5.6
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	72	30	65	67	35	54	15	13
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	89	13	20	12	6.9	13	3.9	4.7
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	75	30	330	38	8.8	22	1.2	1.3
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	180	47	100	99	52	75	23	24
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	260	77	430	140	61	97	24	25
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	1000	270	490	570	310	550	120	160
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	1200	300	820	620	320	610	130	160
Naphthalene		M	2700	mg/kg	0.10	0.68	0.43	0.19	0.35	0.42	0.36	0.56	0.44
Acenaphthylene		M	2700	mg/kg	0.10	0.54	0.60	0.61	0.59	0.55	0.52	0.52	0.57
Acenaphthene		M	2700	mg/kg	0.10	0.63	0.59	0.68	0.51	0.81	0.42	0.67	0.68
Fluorene		M	2700	mg/kg	0.10	0.77	0.54	0.66	0.54	0.99	1.2	1.0	0.92
Phenanthrene		M	2700	mg/kg	0.10	1.2	0.81	1.1	1.5	0.62	1.8	0.90	1.1
Anthracene		M	2700	mg/kg	0.10	0.53	0.44	0.58	0.47	0.12	0.55	0.43	0.45
Fluoranthene		M	2700	mg/kg	0.10	3.4	3.5	2.0	2.9	1.8	3.7	2.8	3.0

Results - Soil

Project: S3240 Androssan North Shore

Client: Sanctus Limited		Chemtest Job No.:		24-22812	24-22812	24-22812	24-22812	24-22812	24-22812	24-22812	24-22812	24-22812	
Quotation No.: Q24-35340		Chemtest Sample ID.:		1837283	1837284	1837285	1837286	1837287	1837288	1837289	1837290		
Order No.: S3240		Client Sample Ref.:		TSP06	TSP06	TSP06	TSP06	TSP06	TSP06	TSP06	TSP06		
		Client Sample ID.:		TSP06-09J	TSP06-10J	TSP06-11J	TSP06-12J	TSP06-13J	TSP06-14J	TSP06-15J	TSP06-16J		
		Sample Location:		TSP06	TSP06	TSP06	TSP06	TSP06	TSP06	TSP06	TSP06		
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Date Sampled:		16-Jul-2024	16-Jul-2024	16-Jul-2024	16-Jul-2024	16-Jul-2024	16-Jul-2024	16-Jul-2024	16-Jul-2024		
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Pyrene		M	2700	mg/kg	0.10	3.3	3.9	2.1	2.9	2.0	4.0	3.3	3.4
Benzo[a]anthracene		M	2700	mg/kg	0.10	1.7	2.0	1.2	1.0	0.50	1.4	1.3	1.9
Chrysene		M	2700	mg/kg	0.10	2.6	2.0	0.97	0.98	0.56	1.7	1.1	1.9
Benzo[b]fluoranthene		M	2700	mg/kg	0.10	3.4	3.3	2.2	2.7	1.8	3.2	3.6	3.5
Benzo[k]fluoranthene		M	2700	mg/kg	0.10	1.3	1.1	0.97	0.98	0.54	1.0	1.5	1.4
Benzo[a]pyrene		M	2700	mg/kg	0.10	2.7	2.9	1.6	2.4	1.5	2.5	2.7	2.7
Indeno(1,2,3-c,d)Pyrene		M	2700	mg/kg	0.10	2.4	2.2	1.4	1.7	1.3	2.1	1.9	2.5
Dibenz(a,h)Anthracene		M	2700	mg/kg	0.10	0.75	0.54	0.16	0.54	0.45	0.47	0.61	0.97
Benzo[g,h,i]perylene		M	2700	mg/kg	0.10	2.7	3.2	1.9	2.8	1.8	3.3	2.5	2.8
Total Of 16 PAH's		M	2700	mg/kg	2.0	29	28	18	23	16	28	25	28

Results - Soil

Project: S3240 Androssan North Shore

Client: Sanctus Limited		Chemtest Job No.:				24-22812
Quotation No.: Q24-35340		Chemtest Sample ID.:				1837291
Order No.: S3240		Client Sample Ref.:				TSP06
		Client Sample ID.:				TSP06-17J
		Sample Location:				TSP06
		Sample Type:				SOIL
		Date Sampled:				16-Jul-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
Moisture		N	2030	%	0.020	7.0
Soil Colour		N	2040		N/A	Brown
Other Material		N	2040		N/A	Stones and Roots
Soil Texture		N	2040		N/A	Loam
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	13
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	110
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	220
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	130
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	470
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	470
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	16
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	88
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	20
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	74
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	120
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	200
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	600
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	670
Naphthalene		M	2700	mg/kg	0.10	0.38
Acenaphthylene		M	2700	mg/kg	0.10	0.41
Acenaphthene		M	2700	mg/kg	0.10	0.47
Fluorene		M	2700	mg/kg	0.10	0.57
Phenanthrene		M	2700	mg/kg	0.10	0.68
Anthracene		M	2700	mg/kg	0.10	0.40
Fluoranthene		M	2700	mg/kg	0.10	2.9

Results - Soil

Project: S3240 Androssan North Shore

Client: Sanctus Limited		Chemtest Job No.:				24-22812
Quotation No.: Q24-35340		Chemtest Sample ID.:				1837291
Order No.: S3240		Client Sample Ref.:				TSP06
		Client Sample ID.:				TSP06-17J
		Sample Location:				TSP06
		Sample Type:				SOIL
		Date Sampled:				16-Jul-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
Pyrene		M	2700	mg/kg	0.10	0.87
Benzo[a]anthracene		M	2700	mg/kg	0.10	1.8
Chrysene		M	2700	mg/kg	0.10	1.8
Benzo[b]fluoranthene		M	2700	mg/kg	0.10	3.3
Benzo[k]fluoranthene		M	2700	mg/kg	0.10	1.2
Benzo[a]pyrene		M	2700	mg/kg	0.10	2.5
Indeno(1,2,3-c,d)Pyrene		M	2700	mg/kg	0.10	2.1
Dibenz(a,h)Anthracene		M	2700	mg/kg	0.10	0.85
Benzo[g,h,i]perylene		M	2700	mg/kg	0.10	2.5
Total Of 16 PAH's		M	2700	mg/kg	2.0	23

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8–C10 Aromatics: >C5–C7,>C7–C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request .

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

All Asbestos testing is performed at the indicated laboratory .

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

Sample Deviation Codes

-
- A - Date of sampling not supplied
 - B - Sample age exceeds stability time (sampling to extraction)
 - C - Sample not received in appropriate containers
 - D - Broken Container
 - E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

All water samples will be retained for 14 days from the date of receipt.

Charges may apply to extended sample storage.

Water Sample Category Key for Accreditation

-
- DW - Drinking Water
 - GW - Ground Water
 - LE - Land Leachate
 - NA - Not Applicable

Report Information

PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com



Chemtest
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.: 24-24570-1

Initial Date of Issue: 06-Aug-2024

Re-Issue Details:

Client Sanctus Limited

Client Address: 1 Olympus Park Business Centre
Quedgeley
Gloucester
Gloucestershire
GL2 4DH

Contact(s): Labs

Project S3240 Ardrossan North Shore

Quotation No.: Q24-35340

Date Received: 01-Aug-2024

Order No.: S3240

Date Instructed: 01-Aug-2024

No. of Samples: 49

Turnaround (Wkdays): 3

Results Due: 05-Aug-2024

Date Approved: 06-Aug-2024

Approved By:

Details:  Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-24570	24-24570	24-24570	24-24570	24-24570	24-24570	24-24570
Quotation No.: Q24-35340		Chemtest Sample ID.:	1844502	1844503	1844504	1844505	1844506	1844507	1844507
Order No.: S3240		Client Sample Ref.:	TSP06	TSP06	TSP06	TSP06	TSP06	TSP06	TSP06
		Client Sample ID.:	TSP06-07K	TSP06-08K	TSP06-09K	TSP06-10K	TSP06-11K	TSP06-12K	
		Sample Location:	TSP06	TSP06	TSP06	TSP06	TSP06	TSP06	
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	
		Bottom Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	
		Date Sampled:	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
Moisture		N	2030	%	0.020	6.6	7.1	7.4	11
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	5.8	3.4	< 2.0	6.2
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	44	41	27	38
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	65	78	65	72
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	55	71	51	60
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	14	14	13	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	170	190	140	180
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	180	210	160	180
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	5.1	5.1	5.1	5.8
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	21	25	24	23
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	9.8	13	9.9	20
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	10	12	9.1	18
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	36	43	39	49
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	46	55	48	66
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	200	240	180	230
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	230	260	200	240
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	0.13	0.16	< 0.10	< 0.10

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-24570	24-24570	24-24570	24-24570	24-24570	24-24570	24-24570
Quotation No.: Q24-35340		Chemtest Sample ID.:	1844502	1844503	1844504	1844505	1844506	1844507	
Order No.: S3240		Client Sample Ref.:	TSP06	TSP06	TSP06	TSP06	TSP06	TSP06	TSP06
		Client Sample ID.:	TSP06-07K	TSP06-08K	TSP06-09K	TSP06-10K	TSP06-11K	TSP06-12K	
		Sample Location:	TSP06	TSP06	TSP06	TSP06	TSP06	TSP06	
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	
		Bottom Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	
		Date Sampled:	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.21	0.24	0.26	0.36
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.13	0.17
Fluoranthene		M	2800	mg/kg	0.10	0.71	0.53	0.57	0.89
Pyrene		M	2800	mg/kg	0.10	0.74	0.50	0.59	0.86
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.37	< 0.10	0.39	0.50
Chrysene		M	2800	mg/kg	0.10	0.29	< 0.10	0.39	0.55
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	0.69	< 0.10	0.53	0.75
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.19	< 0.10	0.32	0.32
Benzo[a]pyrene		M	2800	mg/kg	0.10	0.56	< 0.10	0.48	0.67
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.39	< 0.10	0.41	0.56
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.39	< 0.10	0.48	0.55
Total Of 16 PAH's		N	2800	mg/kg	2.0	4.7	< 2.0	4.6	6.2

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8–C10 Aromatics: >C5–C7,>C7–C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request .

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

All Asbestos testing is performed at the indicated laboratory .

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

Sample Deviation Codes

-
- A - Date of sampling not supplied
 - B - Sample age exceeds stability time (sampling to extraction)
 - C - Sample not received in appropriate containers
 - D - Broken Container
 - E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

All water samples will be retained for 14 days from the date of receipt.

Charges may apply to extended sample storage.

Water Sample Category Key for Accreditation

-
- DW - Drinking Water
 - GW - Ground Water
 - LE - Land Leachate
 - NA - Not Applicable

Report Information

PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

Test Results

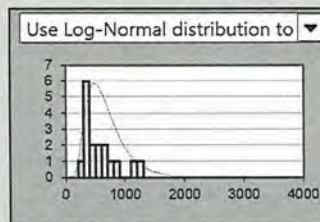
Client/client ref: Sanctus
Project ref: S3240

Site ref: Ardrossan

Data description: Total TPH levels TSP06 Round 2 User details: JRA

Date: 10-Sep-2024

Datase	Total TPH
Sample mean, $\bar{x}$	548.82
Sample standard deviation, s	278.81
Sample size, n	17
Critical concentration, Cc	1000



Outliers & non-detects

Outliers present?	NO
Significance level	5%
Outliers removed?	0
Non-detects	0

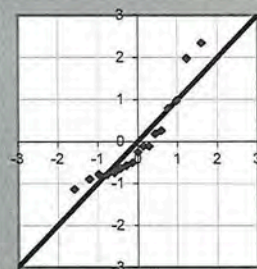


Normality test

Significance level 5%

Non-normal distribution

Use: Auto: Chebychev



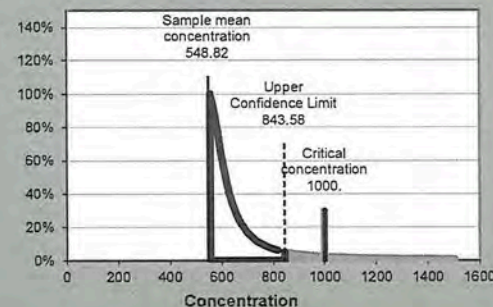
Test scenario:

Planning: is true mean lower than critical concentration ($\mu < C_c$)?

Null hypothesis: The true mean concentration is equal to or greater than the critical concentration: $\mu \geq C_c$

Alternative hypothesis: The true mean concentration is less than the critical concentration: $\mu < C_c$

Probability that true mean exceeds the concentration given on the x axis



Evidence against Null hypothesis:

98%

Base decision on: evidence level

Evidence level required: 95%

Balance of probability? N/A

Reject Null Hypothesis? Yes

$\mu < C_c$ (re this dataset)

**Treated Stockpile Reuse Validation Form 007 – TSP08**

Stockpile ID

Stockpile ID: TSP08

Material Volume:

2,300 m³

Validation Samples Included

23 No.

Tested Location: Treatment Area 01

Stockpile Creation Date: 21/03/2024

Release Date: TBC

Sampling Data (3No. full rounds for validation to release)

Passing Round 1 (Overall Sample Round 12 of 14)	Sample Date: 09/07/2024	Report Number & Date: 24-029825 – 16/07/2024	Lab: i2
Passing Round 2 (Overall Sample Round 13 of 14)	Sample Date: 17/07/2024	Report Number & Date: 24-22989 – 23/07/2024	Lab: Eurofins
Passing Round 3 (Overall Sample Round 14 of 14)	Sample Date: 30/07/2024	Report Number & Date: 24-24570 – 06/08/2024	Lab: Eurofins

Sampling Data**Passing Round 1**

Report Number: 24-029825

Report Date: 16/07/2024

Sample ID (Sample Names): TSP08-01H – TSP08-23H

Report ID (Lab): i2

Comments:

Test Results: PASS / FAIL

No exceedances seen throughout Average Total TPH = 200 mg/kg. Sanctus deem this round of sampling as chemically suitable for reuse.

Passing Round 2

Report Number: 24-22989

Report Date: 23/07/2024

Sample ID (Sample Names): TSP08-01I – TSP08-23I

Report ID (Lab): Eurofins

Comments:

Test Results: PASS / FAIL

No exceedances seen throughout Average Total TPH = 199 mg/kg. Sanctus deem this round of sampling as chemically suitable for reuse.

Passing Round 3

Report Number: 24-24570

Report Date: 06/08/2024

Sample ID (Sample Names): TSP08-01J – TSP08-23J

Report ID (Lab): Eurofins

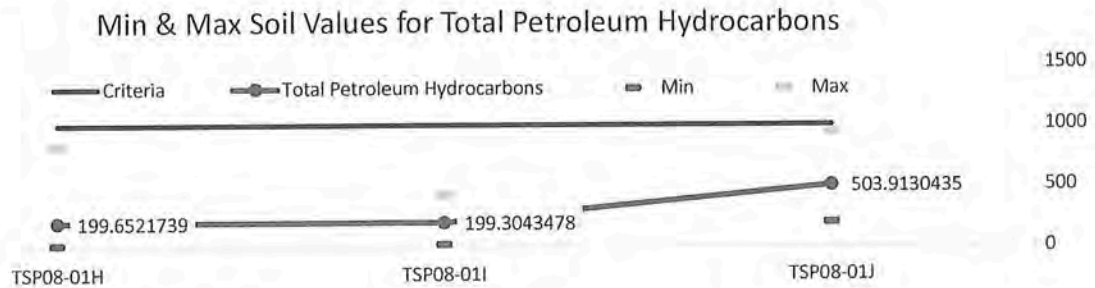
Comments:

Test Results: PASS / FAIL

No exceedances seen throughout Average Total TPH = 504 mg/kg. Sanctus deem this round of sampling as chemically suitable for reuse.

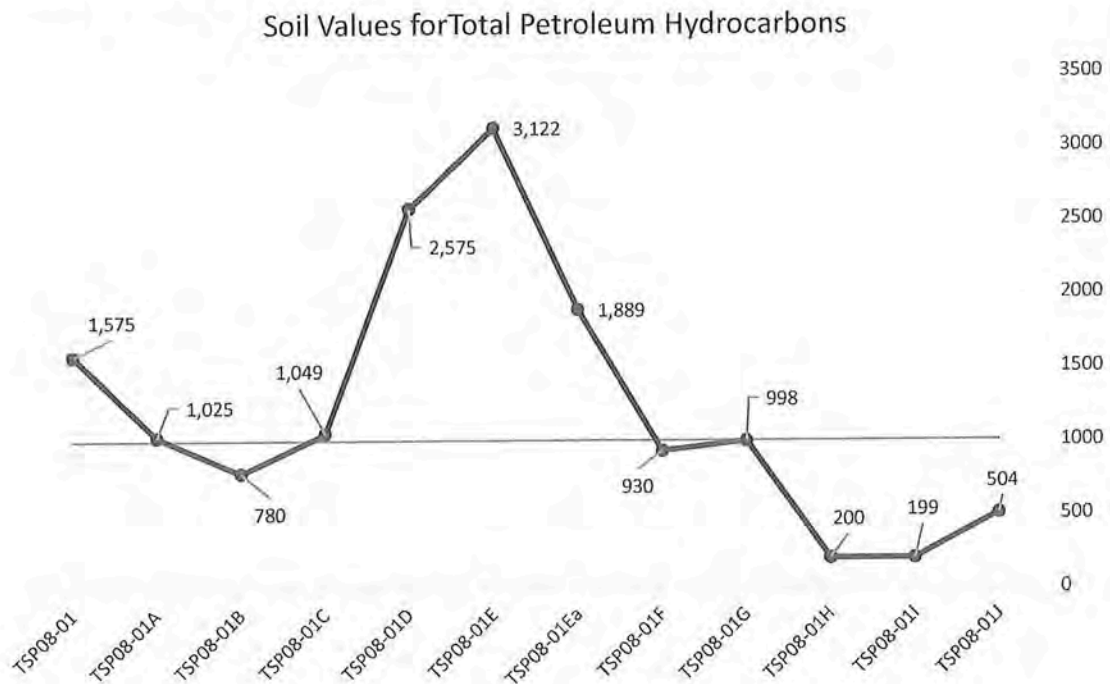
Data Review

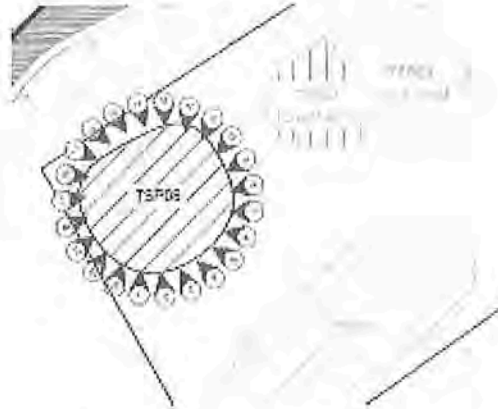
Data Trend for Total TPH levels:



Additional Trendline Data – long term review:

Further to the above spread of data for the final 3 No. rounds, the total TPH levels from March 2024, for the treated stockpile, are shown below. The chart shows a significant decrease in the averaged total TPH levels, and the final result presents a reduction of total TPH level of 83% when compared to the highest material's contents (3,122 mg/kg (15th May 2024), compared to 504 mg/kg (30th July 2024)):



Treated Stockpile Sample Plan:**Sampling Strategy:**

All samples have been taken in compliance with ISO BS 18400, including the following notes:

- Stainless steel/washable sampling devices (trowels, buckets, etc) will be employed for the gathering of the soils samples and cleaned between each sample location so that consecutive samples are not cross-contaminated.
- The sample positions shown above indicate the position relative to the base boundary of the stockpile. All samples are taken from within the body of the Stockpile, retrieved by an excavator. This is done as a safe sample retrieval option as well as to target an internal representative sample location mid-way from the edge to the centre of the Stockpile, as discussed under BS ISO 18400-104:2018 (Sampling Strategies), subsection 9.
- The subsequent sample depths were between 1-2 m below the Stockpile's surface and a minimum of 4No. characteristic subsamples were taken from an area of approximately 1m² of the newly exposed material. The 4No. or more sub-locations were chosen in a X-pattern and the combined testing soil material is described as a composite sample, following a systematic stratified random sub-sampling location of a 3-dimensional source.
- The mechanically retrieved material is then sub-sampled into the required sampling jars/pots by the Sanctus Engineer as a representative sample from the numbered location.



Sanctus Declaration:

We confirm that:

1. The material that this form relates to, has been sampled representatively, as discussed above and in accordance with the client's requirements (Ardrossan Remediation Specification Rev E).
2. The material has been proven to be suitable for REUSE on site as there are 3 No. consecutive rounds, with a statistical insignificant number of exceedances of the accepted reuse criteria. No exceedances are seen within the all three monitoring rounds and each round's average for the total TPH levels have been significantly below the 1,000 mg/kg threshold level.
3. The laboratory analysis results are representative of the materials investigated.
4. The material released will also be recorded spatially at its reuse location

NAME: [REDACTED]
POSITION: Senior Environmental Engineer
DATE: 07/10/2024
SIGNED:

X

[REDACTED]
Senior Environmental Engineer
Signed by: 7ee96afd-5b10-4b4f-a839-775383c68d48

Record of reuse

For Sanctus Use Only:

Approved for reuse:

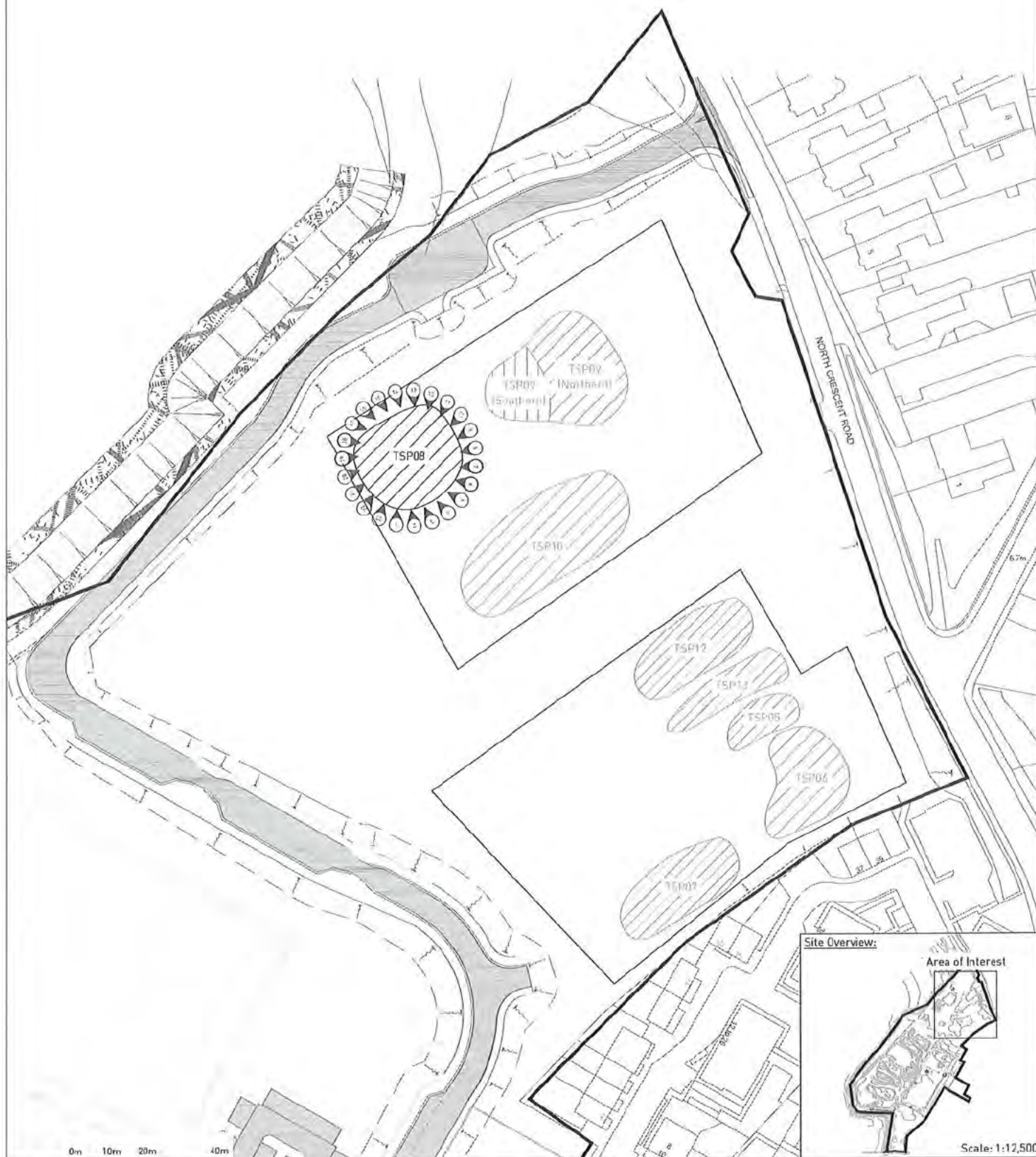
Beginning of Movement from stockpile:

End of Movement into site:



Legend:

- Site Boundary
- Treated Stockpile 08 Sample Location



Site Overview:

Area of Interest



Scale: 1:12,500



Sanctus House, 1 Olympus Park Business Centre,
Quedgeley, Glos, GL2 4DH
T. 01453 826222
E: info@sanctustld.co.uk www.sanctustld.com

Drawing Notes:
Based on client supplied DWG -
AR0805SAN 2D produced by Aird Group
23/03/2020. All locations are approximate.
Must be printed in colour.

Site Address:
Raylight Place
Ardrossan
North Ayrshire
Scotland

Rev.	Description	Date
A	First Issue	02/09/2024

APPROVED

Project Name:
North Shire, Ardrossan

Client:
North Ayrshire Council

Drawing Title:
Treated Stockpile 08 Sample Locations

Contract No:
S3240

Drawing No:
D3240/078

Scale @ A3:
1:1000

Drawn By:

QC Check By:

Approved By:

1 of 1



Sanctus Ltd
Sanctus House
1 Olympus Park Business Centre
Quedgeley
Gloucester
Gloucestershire
GL2 4DH

t: 01453 828222

e: [REDACTED]

i2 Analytical Ltd.
Unit 9,
Langlands Place,
East Kilbride,
G75 0YF

t: 01355202915
f: 01923237404
e: scotland@i2analytical.com

Analytical Report Number : 24-029825

Project / Site name: Ardrossan North Shore

Samples received on: 09/07/2024

Your job number: S3240

**Samples instructed on/
Analysis started on:** 09/07/2024

Your order number: S3240

Analysis completed by: 16/07/2024

Report Issue Number: 1

Report issued on: 16/07/2024

Samples Analysed: 23 soil samples

Signed: [REDACTED]

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

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

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.



4041



Environmental Science

Analytical Report Number: 24-029825
Project / Site name: Ardrossan North Shore
Your Order No: S3240

Lab Sample Number	252436	252437	252438	252439	252440
Sample Reference	TSP08-01H	TSP08-02H	TSP08-03H	TSP08-04H	TSP08-05H
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	09/07/2024	09/07/2024	09/07/2024	09/07/2024	09/07/2024
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	50.7	< 0.1	18.3	< 0.1
Moisture Content	%	0.01	NONE	8.1	5.4	8.4	8.7	8.5
Total mass of sample received	kg	0.1	NONE	1.4	1.3	1.4	1.3	1.4

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Detected	Detected
Asbestos Analyst ID	N/A	N/A	N/A	EWS	EWS	EWS	EWS	EWS
Actinolite detected	Type	N/A	ISO 17025	-	-	-	Not-detected	Not-detected
Amosite detected	Type	N/A	ISO 17025	-	-	-	Detected	Not-detected
Anthophyllite detected	Type	N/A	ISO 17025	-	-	-	Not-detected	Not-detected
Chrysotile detected	Type	N/A	ISO 17025	-	-	-	Not-detected	Detected
Crocidolite detected	Type	N/A	ISO 17025	-	-	-	Not-detected	Not-detected
Tremolite detected	Type	N/A	ISO 17025	-	-	-	Not-detected	Not-detected

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	-	-	-	< 0.001	< 0.001
-------------------------------------	---	-------	-----------	---	---	---	---------	---------

Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	-	-	Loose Fibres	Loose Fibres
---	------	-----	-----------	---	---	---	--------------	--------------

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.13	0.1	0.13	0.1	0.14
Acenaphthylene	mg/kg	0.05	MCERTS	0.05	< 0.05	< 0.05	0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	0.07	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	1.2	0.38	0.51	0.52	0.46
Anthracene	mg/kg	0.05	MCERTS	0.25	0.08	0.16	0.13	0.12
Fluoranthene	mg/kg	0.05	MCERTS	1.9	0.54	1	0.82	0.78
Pyrene	mg/kg	0.05	MCERTS	1.6	0.5	0.97	0.81	0.77
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.89	0.28	0.6	0.46	0.44
Chrysene	mg/kg	0.05	MCERTS	1.1	0.35	0.7	0.52	0.55
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	1.2	0.36	0.75	0.52	0.6
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.31	0.13	0.25	0.21	0.21
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.87	0.3	0.61	0.47	0.49
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.45	0.16	0.31	0.23	0.28
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.12	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.59	0.26	0.44	0.37	0.41

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	10.7	3.44	6.47	5.2	5.24
-----------------------------	-------	-----	-----------	------	------	------	-----	------



4041



Environmental Science

Analytical Report Number: 24-029825
Project / Site name: Ardrossan North Shore
Your Order No: S3240

Lab Sample Number	252436	252437	252438	252439	252440
Sample Reference	TSP08-01H	TSP08-02H	TSP08-03H	TSP08-04H	TSP08-05H
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	09/07/2024	09/07/2024	09/07/2024	09/07/2024	09/07/2024
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_ID_AL}	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >EC6 - EC8 _{HS_ID_AL}	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >EC8 - EC10 _{HS_ID_AL}	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aliphatic >EC10 - EC12 _{BH_CU_ID_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{BH_CU_ID_AL}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	5.6
TPHCWG - Aliphatic >EC16 - EC21 _{BH_CU_ID_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	16
TPHCWG - Aliphatic >EC21 - EC35 _{BH_CU_ID_AL}	mg/kg	8	MCERTS	29	23	26	15	38
TPHCWG - Aliphatic >EC5 - EC35 _{BH_CU+HS_ID_AL}	mg/kg	10	NONE	29	23	26	15	59

TPHCWG - Aromatic >EC5 - EC7 _{HS_ID_AR}	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_ID_AR}	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_ID_AR}	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aromatic >EC10 - EC12 _{BH_CU_ID_AR}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{BH_CU_ID_AR}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{BH_CU_ID_AR}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC21 - EC35 _{BH_CU_ID_AR}	mg/kg	10	MCERTS	47	21	17	< 10	16
TPHCWG - Aromatic >EC5 - EC35 _{BH_CU+HS_ID_AR}	mg/kg	10	NONE	47	21	17	< 10	16

TPH (EC10 - EC40) _{BH_CU_ID_TOTAL}	mg/kg	10	MCERTS	99	64	56	26	84
---	-------	----	--------	----	----	----	----	----

VOCs

MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 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	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
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



4041



Environmental Science

Analytical Report Number: 24-029825

Project / Site name: Ardrossan North Shore

Your Order No: S3240

Lab Sample Number				252441	252442	252443	252444	252445
Sample Reference				TSP08-06H	TSP08-07H	TSP08-08H	TSP08-09H	TSP08-10H
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				09/07/2024	09/07/2024	09/07/2024	09/07/2024	09/07/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	41.7	5.9	< 0.1	20.8
Moisture Content	%	0.01	NONE	8.3	7	8.7	8	8.1
Total mass of sample received	kg	0.1	NONE	1.3	1.4	1.4	0.6	0.7

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Detected	Not-detected	Detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	EWS	EWS	EWS	EWS	EWS
Actinolite detected	Type	N/A	ISO 17025	Not-detected	-	Not-detected	-	-
Amosite detected	Type	N/A	ISO 17025	Not-detected	-	Not-detected	-	-
Anthophyllite detected	Type	N/A	ISO 17025	Not-detected	-	Not-detected	-	-
Chrysotile detected	Type	N/A	ISO 17025	Not-detected	-	Detected	-	-
Crocidolite detected	Type	N/A	ISO 17025	Detected	-	Not-detected	-	-
Tremolite detected	Type	N/A	ISO 17025	Not-detected	-	Not-detected	-	-

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	< 0.001	-	< 0.001	-	-
-------------------------------------	---	-------	-----------	---------	---	---------	---	---

Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	Loose Fibres	-	Loose Fibres	-	-
---	------	-----	-----------	--------------	---	--------------	---	---

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.15	0.15	0.18	0.14	0.11
Acenaphthylene	mg/kg	0.05	MCERTS	0.06	< 0.05	0.06	< 0.05	0.06
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.51	0.37	0.66	0.5	0.55
Anthracene	mg/kg	0.05	MCERTS	0.14	0.12	0.16	0.17	0.16
Fluoranthene	mg/kg	0.05	MCERTS	1.3	0.64	1.5	0.89	0.81
Pyrene	mg/kg	0.05	MCERTS	1.3	0.6	1.3	0.84	0.78
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.91	0.36	0.7	0.49	0.44
Chrysene	mg/kg	0.05	MCERTS	1.1	0.43	0.79	0.56	0.53
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	1.5	0.49	0.89	0.68	0.6
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.34	0.14	0.28	0.25	0.15
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1.1	0.4	0.71	0.51	0.47
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.56	0.2	0.35	0.28	0.25
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.12	< 0.05	0.06	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.85	0.33	0.52	0.41	0.38

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	9.97	4.23	8.19	5.72	5.35
-----------------------------	-------	-----	-----------	------	------	------	------	------



4041



Environmental Science

Analytical Report Number: 24-029825

Project / Site name: Ardrossan North Shore

Your Order No: S3240

Lab Sample Number	252441	252442	252443	252444	252445
Sample Reference	TSP08-06H	TSP08-07H	TSP08-08H	TSP08-09H	TSP08-10H
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	09/07/2024	09/07/2024	09/07/2024	09/07/2024	09/07/2024
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
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	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	13	< 8.0	8.8	< 8.0	< 8.0
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	54	9.5	42	35	24
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	67	< 10	50	35	24

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	2.9	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	11	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	55	< 10	14	11	13
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	69	< 10	14	11	13

TPH (EC10 - EC40) _{EH_CU_1D_TOTAL}	mg/kg	10	MCERTS	160	21	79	65	51
---	-------	----	--------	-----	----	----	----	----

VOCs

MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 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	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
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



4041



Environmental Science

Analytical Report Number: 24-029825
 Project / Site name: Ardrossan North Shore
 Your Order No: S3240

Lab Sample Number	252446	252447	252448	252449	252450
Sample Reference	TSP08-11H	TSP08-12H	TSP08-13H	TSP08-14H	TSP08-15H
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	09/07/2024	09/07/2024	09/07/2024	09/07/2024	09/07/2024
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	46.9	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	8.2	6	7.5	7.5	7
Total mass of sample received	kg	0.1	NONE	0.7	1.4	1.4	1.3	1.4

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Detected
Asbestos Analyst ID	N/A	N/A	N/A	MBI	MBI	MBI	MBI	MBI
Actinolite detected	Type	N/A	ISO 17025	-	-	-	-	Not-detected
Amosite detected	Type	N/A	ISO 17025	-	-	-	-	Not-detected
Anthophyllite detected	Type	N/A	ISO 17025	-	-	-	-	Not-detected
Chrysotile detected	Type	N/A	ISO 17025	-	-	-	-	Detected
Crocidolite detected	Type	N/A	ISO 17025	-	-	-	-	Not-detected
Tremolite detected	Type	N/A	ISO 17025	-	-	-	-	Not-detected

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	-	-	-	-	< 0.001
-------------------------------------	---	-------	-----------	---	---	---	---	---------

Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	-	-	-	Loose Fibres
---	------	-----	-----------	---	---	---	---	--------------

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.1	0.15	0.12	0.13	0.18
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.08	0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.08	0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.08	0.07
Phenanthrene	mg/kg	0.05	MCERTS	0.45	0.38	0.53	1	0.81
Anthracene	mg/kg	0.05	MCERTS	0.13	0.12	0.14	0.29	0.18
Fluoranthene	mg/kg	0.05	MCERTS	0.79	0.69	0.88	1.5	1
Pyrene	mg/kg	0.05	MCERTS	0.74	0.67	0.84	1.4	0.94
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.45	0.42	0.46	0.75	0.56
Chrysene	mg/kg	0.05	MCERTS	0.49	0.55	0.54	0.89	0.58
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.53	0.51	0.55	1	0.7
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.22	0.21	0.24	0.28	0.2
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.47	0.47	0.5	0.79	0.52
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.24	0.25	0.27	0.4	0.28
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.05	0.07	0.08	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.36	0.37	0.37	0.49	0.41

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	4.97	4.83	5.51	9.26	6.56
-----------------------------	-------	-----	-----------	------	------	------	------	------



4041



Environmental Science

Analytical Report Number: 24-029825
 Project / Site name: Ardrossan North Shore
 Your Order No: S3240

Lab Sample Number	252446	252447	252448	252449	252450
Sample Reference	TSP08-11H	TSP08-12H	TSP08-13H	TSP08-14H	TSP08-15H
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	09/07/2024	09/07/2024	09/07/2024	09/07/2024	09/07/2024
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 HS_1D_AL	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >EC6 - EC8 HS_1D_AL	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >EC8 - EC10 HS_1D_AL	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
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	< 2.0	3.2	2.3	< 2.0	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 EH_CU_1D_AL	mg/kg	8	MCERTS	< 8.0	13	8.3	< 8.0	< 8.0
TPHCWG - Aliphatic >EC21 - EC35 EH_CU_1D_AL	mg/kg	8	MCERTS	29	58	31	22	39
TPHCWG - Aliphatic >EC5 - EC35 EH_CU+HS_1D_AL	mg/kg	10	NONE	29	75	42	22	39

TPHCWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	< 1.0	< 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	< 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	< 10	71	13	14	< 10
TPHCWG - Aromatic >EC5 - EC35 EH_CU+HS_1D_AR	mg/kg	10	NONE	< 10	71	13	14	< 10

TPH (EC10 - EC40) EH_CU_1D_TOTAL	mg/kg	10	MCERTS	50	180	67	49	61
----------------------------------	-------	----	--------	----	-----	----	----	----

VOCs

MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 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	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
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



4041



Environmental Science

Analytical Report Number: 24-029825

Project / Site name: Ardrossan North Shore

Your Order No: S3240

Lab Sample Number				252451	252452	252453	252454	252455
Sample Reference				TSP08-16H	TSP08-17H	TSP08-18H	TSP08-19H	TSP08-20H
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				09/07/2024	09/07/2024	09/07/2024	09/07/2024	09/07/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	34.8	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	3.9	1.7	0.88	0.98	2.3
Total mass of sample received	kg	0.1	NONE	1.5	1.4	1.4	1.3	1.4

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Detected	Detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	MBI	MBI	MBI	MBI	MBI
Actinolite detected	Type	N/A	ISO 17025	Not-detected	Not-detected	-	-	-
Amosite detected	Type	N/A	ISO 17025	Not-detected	Not-detected	-	-	-
Anthophyllite detected	Type	N/A	ISO 17025	Not-detected	Not-detected	-	-	-
Chrysotile detected	Type	N/A	ISO 17025	Detected	Detected	-	-	-
Crocidolite detected	Type	N/A	ISO 17025	Not-detected	Not-detected	-	-	-
Tremolite detected	Type	N/A	ISO 17025	Not-detected	Not-detected	-	-	-

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	< 0.001	0.001	-	-	-
-------------------------------------	---	-------	-----------	---------	-------	---	---	---

Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	Loose Fibres	Loose Fibres	-	-	-
---	------	-----	-----------	--------------	--------------	---	---	---

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.36	0.45	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	0.07	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.12	0.19	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	0.11	0.15	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.53	0.88	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	0.19	0.3	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.98	1.5	< 0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	1.2	1.5	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.52	0.86	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	0.6	0.95	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.66	1.2	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.24	0.42	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.58	1.1	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.31	0.64	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.06	0.12	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.43	0.85	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	6.84	11.2	< 0.80	< 0.80	< 0.80
-----------------------------	-------	-----	-----------	------	------	--------	--------	--------



4041



Environmental Science

Analytical Report Number: 24-029825
Project / Site name: Ardrossan North Shore
Your Order No: S3240

Lab Sample Number	252451	252452	252453	252454	252455
Sample Reference	TSP08-16H	TSP08-17H	TSP08-18H	TSP08-19H	TSP08-20H
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	09/07/2024	09/07/2024	09/07/2024	09/07/2024	09/07/2024
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS,1D,AL}	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >EC6 - EC8 _{HS,1D,AL}	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >EC8 - EC10 _{HS,1D,AL}	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
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	< 2.0	39	14	9.2	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH,CU,1D,AL}	mg/kg	8	MCERTS	140	150	56	36	70
TPHCWG - Aliphatic >EC21 - EC35 _{EH,CU,1D,AL}	mg/kg	8	MCERTS	220	220	85	41	120
TPHCWG - Aliphatic >EC5 - EC35 _{EH,CU+HS,1D,AL}	mg/kg	10	NONE	360	400	160	86	190

TPHCWG - Aromatic >EC5 - EC7 _{HS,1D,AR}	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS,1D,AR}	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS,1D,AR}	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aromatic >EC10 - EC12 _{EH,CU,1D,AR}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH,CU,1D,AR}	mg/kg	2	MCERTS	17	11	< 2.0	< 2.0	4.4
TPHCWG - Aromatic >EC16 - EC21 _{EH,CU,1D,AR}	mg/kg	10	MCERTS	110	93	33	24	40
TPHCWG - Aromatic >EC21 - EC35 _{EH,CU,1D,AR}	mg/kg	10	MCERTS	260	200	56	27	66
TPHCWG - Aromatic >EC5 - EC35 _{EH,CU+HS,1D,AR}	mg/kg	10	NONE	390	310	88	51	110

TPH (EC10 - EC40) _{EH,CU,1D,TOTAL}	mg/kg	10	MCERTS	830	770	250	140	310
---	-------	----	--------	-----	-----	-----	-----	-----

VOCs

MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 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	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
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



4041



Environmental Science

Analytical Report Number: 24-029825

Project / Site name: Ardrossan North Shore

Your Order No: S3240

Lab Sample Number	252456	252457	252458
Sample Reference	TSP08-21H	TSP08-22H	TSP08-23H
Sample Number	None Supplied	None Supplied	None Supplied
Depth (m)	None Supplied	None Supplied	None Supplied
Date Sampled	09/07/2024	09/07/2024	09/07/2024
Time Taken	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status

Stone Content	%	0.1	NONE	44.3	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	1.5	4.4	5.3
Total mass of sample received	kg	0.1	NONE	1.4	1.5	1.3

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	SPU	SPU	SPU
Actinolite detected	Type	N/A	ISO 17025	-	-	-
Amosite detected	Type	N/A	ISO 17025	-	-	-
Anthophyllite detected	Type	N/A	ISO 17025	-	-	-
Chrysotile detected	Type	N/A	ISO 17025	-	-	-
Crocidolite detected	Type	N/A	ISO 17025	-	-	-
Tremolite detected	Type	N/A	ISO 17025	-	-	-

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	-	-	-
-------------------------------------	---	-------	-----------	---	---	---

Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	-	-
---	------	-----	-----------	---	---	---

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	0.25	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	0.24	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	0.17	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	1.5	0.12
Anthracene	mg/kg	0.05	MCERTS	< 0.05	0.39	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	1.7	0.22
Pyrene	mg/kg	0.05	MCERTS	< 0.05	2	0.26
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.93	0.15
Chrysene	mg/kg	0.05	MCERTS	< 0.05	1	0.17
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	0.77	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	0.46	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.91	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.36	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	0.51	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	11.2	0.92
-----------------------------	-------	-----	-----------	--------	------	------



4041



Environmental Science

Analytical Report Number: 24-029825
 Project / Site name: Ardrossan North Shore
 Your Order No: S3240

Lab Sample Number	252456	252457	252458
Sample Reference	TSP08-21H	TSP08-22H	TSP08-23H
Sample Number	None Supplied	None Supplied	None Supplied
Depth (m)	None Supplied	None Supplied	None Supplied
Date Sampled	09/07/2024	09/07/2024	09/07/2024
Time Taken	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_ID_AL}	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >EC6 - EC8 _{HS_ID_AL}	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >EC8 - EC10 _{HS_ID_AL}	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_ID_AL}	mg/kg	1	MCERTS	< 1.0	4.1	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_ID_AL}	mg/kg	2	MCERTS	25	37	8
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_ID_AL}	mg/kg	8	MCERTS	140	81	30
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_ID_AL}	mg/kg	8	MCERTS	250	120	55
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_ID_AL}	mg/kg	10	NONE	410	250	93

TPHCWG - Aromatic >EC5 - EC7 _{HS_ID_AR}	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_ID_AR}	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_ID_AR}	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_ID_AR}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_ID_AR}	mg/kg	2	MCERTS	2	3.5	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_ID_AR}	mg/kg	10	MCERTS	47	48	23
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_ID_AR}	mg/kg	10	MCERTS	88	110	47
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_ID_AR}	mg/kg	10	NONE	140	160	70

TPH (EC10 - EC40) _{EH_CU_ID_TOTAL}	mg/kg	10	MCERTS	570	430	180
---	-------	----	--------	-----	-----	-----

VOCs

MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0

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



Analytical Report Number: 24-029825
Project / Site name: Ardrossan North Shore
Your Order No: S3240

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative Analysis

The analysis was carried out using our documented in-house method A006 based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample
252439	TSP08-04H		202	Loose Fibres	Amosite	< 0.001	< 0.001
252440	TSP08-05H		197	Loose Fibres	Chrysotile	< 0.001	< 0.001
252441	TSP08-06H		219	Loose Fibres	Crocidolite	< 0.001	< 0.001
252443	TSP08-08H		186	Loose Fibres	Chrysotile	< 0.001	< 0.001
252450	TSP08-15H		180	Loose Fibres	Chrysotile	< 0.001	< 0.001
252451	TSP08-16H		177	Loose Fibres	Chrysotile	< 0.001	< 0.001
252452	TSP08-17H		229	Loose Fibres	Chrysotile	0.001	0.001

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.



4041



Environmental Science

Analytical Report Number : 24-029825

Project / Site name: Ardrossan North Shore

* 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 *
252436	TSP08-01H	None Supplied	None Supplied	Brown loam with gravel and vegetation
252437	TSP08-02H	None Supplied	None Supplied	Brown loam with vegetation and stones
252438	TSP08-03H	None Supplied	None Supplied	Brown loam with gravel and vegetation
252439	TSP08-04H	None Supplied	None Supplied	Brown loam with gravel and stones
252440	TSP08-05H	None Supplied	None Supplied	Brown loam and clay with gravel and vegetation
252441	TSP08-06H	None Supplied	None Supplied	Brown loam with gravel and vegetation
252442	TSP08-07H	None Supplied	None Supplied	Brown loam with vegetation and stones
252443	TSP08-08H	None Supplied	None Supplied	Brown loam with vegetation and stones
252444	TSP08-09H	None Supplied	None Supplied	Brown loam with gravel and vegetation
252445	TSP08-10H	None Supplied	None Supplied	Brown loam with vegetation and stones
252446	TSP08-11H	None Supplied	None Supplied	Brown loam with gravel and vegetation
252447	TSP08-12H	None Supplied	None Supplied	Brown loam with vegetation and stones
252448	TSP08-13H	None Supplied	None Supplied	Brown loam with gravel and vegetation
252449	TSP08-14H	None Supplied	None Supplied	Brown loam with gravel and vegetation
252450	TSP08-15H	None Supplied	None Supplied	Brown loam with gravel and vegetation
252451	TSP08-16H	None Supplied	None Supplied	Brown loam with gravel and vegetation
252452	TSP08-17H	None Supplied	None Supplied	Brown loam with gravel and stones
252453	TSP08-18H	None Supplied	None Supplied	Brown sand with gravel
252454	TSP08-19H	None Supplied	None Supplied	Brown sand with gravel
252455	TSP08-20H	None Supplied	None Supplied	Brown sand with gravel
252456	TSP08-21H	None Supplied	None Supplied	Brown sand with gravel and stones
252457	TSP08-22H	None Supplied	None Supplied	Brown sandy loam with gravel
252458	TSP08-23H	None Supplied	None Supplied	Brown sand with gravel



4041



Environmental Science

Analytical Report Number : 24-029825

Project / Site name: Ardrossan North Shore

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (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
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references	HSE Report No: 83/1996, HSG 248 (2021), HSG 264 (2012) & SCA Blue Book (draft)	A006B	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
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	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	D/W	MCERTS

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).

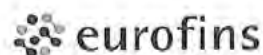
For method numbers ending in 'PL' or 'B' analysis have been carried out in our laboratory in Poland.

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 30°C.

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



Chemtest
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.: 24-22989-1

Initial Date of Issue: 23-Jul-2024

Re-Issue Details:

Client Sanctus Limited

Client Address: 1 Olympus Park Business Centre
Quedgeley
Gloucester
Gloucestershire
GL2 4DH

Contact(s): Labs

Project S3240 Ardrossan North Shore

Quotation No.: Q24-35340

Date Received: 19-Jul-2024

Order No.: S3240

Date Instructed: 19-Jul-2024

No. of Samples: 23

Turnaround (Wkdays): 3

Results Due: 23-Jul-2024

Date Approved: 23-Jul-2024

Approved By:



Details:  Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-22989	24-22989	24-22989	24-22989	24-22989	24-22989	24-22989	24-22989	24-22989	24-22989	24-22989
Quotation No.: Q24-35340		Chemtest Sample ID.:	1837933	1837934	1837935	1837936	1837937	1837938	1837939	1837940			
Order No.: S3240		Client Sample Ref.:	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08
		Client Sample ID.:	TSP08-01I	TSP08-02I	TSP08-03I	TSP08-04I	TSP08-05I	TSP08-06I	TSP08-07I	TSP08-08I			
		Sample Location:	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Date Sampled:	17-Jul-2024	17-Jul-2024	17-Jul-2024	17-Jul-2024	17-Jul-2024	17-Jul-2024	17-Jul-2024	17-Jul-2024	17-Jul-2024	17-Jul-2024	17-Jul-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Moisture		N	2030	%	0.020	8.2	8.3	8.4	8.6	8.7	10	8.8	8.1
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones, Roots and Glass	Stones and Roots	Stones and Roots	Roots, Stones and Glass
Soil Texture		N	2040		N/A	Loam	Loam	Loam	Loam	Loam	Loam	Loam	Loam
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	9.3	12	6.5	13	11	13	12	21
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	38	38	27	52	33	55	35	89
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	54	71	36	72	58	83	43	110
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	34	46	25	54	27	78	26	60
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10	< 10	15	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	140	170	95	190	130	230	120	280
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	140	170	95	190	130	240	120	280
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	1.2	< 1.0	1.1	< 1.0	4.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	6.0	6.1	< 1.0	7.6	6.7	8.3	5.4	8.8
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	18	17	7.4	24	24	27	10	36
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	14	16	5.2	10	17	17	4.5	4.0
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	58	20	1.3	14	23	23	2.1	45
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	38	39	13	43	47	54	20	52
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	96	59	14	57	71	77	22	98
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	170	210	110	230	180	280	140	340
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	230	230	110	250	200	320	140	380
Naphthalene		M	2700	mg/kg	0.10	0.21	< 0.10	0.16	< 0.10	< 0.10	0.14	< 0.10	0.17
Acenaphthylene		M	2700	mg/kg	0.10	0.19	< 0.10	0.19	< 0.10	< 0.10	0.22	< 0.10	0.19
Acenaphthene		M	2700	mg/kg	0.10	0.10	< 0.10	0.13	< 0.10	< 0.10	0.15	< 0.10	0.14
Fluorene		M	2700	mg/kg	0.10	0.15	< 0.10	0.25	< 0.10	< 0.10	0.28	< 0.10	0.28
Phenanthrene		M	2700	mg/kg	0.10	1.5	0.74	0.51	0.77	0.37	0.79	0.39	0.34

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-22989	24-22989	24-22989	24-22989	24-22989	24-22989	24-22989	24-22989	24-22989	24-22989	24-22989
Quotation No.: Q24-35340		Chemtest Sample ID.:	1837933	1837934	1837935	1837936	1837937	1837938	1837939	1837940			
Order No.: S3240		Client Sample Ref.:	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08
		Client Sample ID.:	TSP08-01I	TSP08-02I	TSP08-03I	TSP08-04I	TSP08-05I	TSP08-06I	TSP08-07I	TSP08-08I			
		Sample Location:	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Date Sampled:	17-Jul-2024	17-Jul-2024	17-Jul-2024	17-Jul-2024	17-Jul-2024	17-Jul-2024	17-Jul-2024	17-Jul-2024	17-Jul-2024	17-Jul-2024	17-Jul-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Anthracene		M	2700	mg/kg	0.10	0.54	0.25	0.23	0.26	0.21	0.33	0.15	0.16
Fluoranthene		M	2700	mg/kg	0.10	2.4	2.1	1.8	2.4	1.5	2.9	1.3	1.9
Pyrene		M	2700	mg/kg	0.10	2.6	2.3	2.0	2.5	1.7	2.9	1.6	2.0
Benzo[a]anthracene		M	2700	mg/kg	0.10	1.3	1.5	1.3	1.5	0.94	1.7	0.76	1.0
Chrysene		M	2700	mg/kg	0.10	0.33	1.4	1.6	1.3	1.0	2.0	1.0	1.2
Benzo[b]fluoranthene		M	2700	mg/kg	0.10	2.5	3.0	2.1	2.6	2.2	2.6	2.0	2.4
Benzo[k]fluoranthene		M	2700	mg/kg	0.10	1.0	1.1	0.66	0.99	0.84	0.96	0.73	0.70
Benzo[a]pyrene		M	2700	mg/kg	0.10	1.8	2.2	1.8	2.0	1.6	2.2	1.6	2.2
Indeno(1,2,3-c,d)Pyrene		M	2700	mg/kg	0.10	1.6	1.6	1.3	1.5	1.1	1.7	1.2	2.0
Dibenz(a,h)Anthracene		M	2700	mg/kg	0.10	0.88	1.2	0.35	1.1	0.86	0.51	0.91	0.50
Benzo[g,h,i]perylene		M	2700	mg/kg	0.10	1.7	2.0	1.7	1.8	1.5	2.0	1.7	2.2
Total Of 16 PAH's		M	2700	mg/kg	2.0	19	19	16	19	14	21	13	17

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-22989	24-22989	24-22989	24-22989	24-22989	24-22989	24-22989	24-22989	24-22989	24-22989	24-22989
Quotation No.: Q24-35340		Chemtest Sample ID.:	1837941	1837942	1837943	1837944	1837945	1837946	1837947	1837948	1837948	1837948	1837948
Order No.: S3240		Client Sample Ref.:	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08
		Client Sample ID.:	TSP08-09I	TSP08-10I	TSP08-11I	TSP08-12I	TSP08-13I	TSP08-14I	TSP08-15I	TSP08-16I	TSP08-16I	TSP08-16I	TSP08-16I
		Sample Location:	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Date Sampled:	17-Jul-2024	17-Jul-2024	17-Jul-2024	17-Jul-2024	17-Jul-2024	17-Jul-2024	17-Jul-2024	17-Jul-2024	17-Jul-2024	17-Jul-2024	17-Jul-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Moisture		N	2030	%	0.020	8.4	8.2	9.1	8.7	6.7	8.4	8.1	7.9
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones, Roots and Glass	Stones and Roots	Roots and Stones	Stones and Roots	Stones, Roots and Glass	Stones and Roots	Stones, Roots and	Stones, Roots and
Soil Texture		N	2040		N/A	Loam	Loam	Loam	Loam	Loam	Loam	Loam	Loam
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	8.6	10	10	23	10	10	13	11
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	15	27	27	100	39	31	33	32
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	3.7	38	44	120	56	51	60	49
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	< 3.0	25	22	92	52	29	23	25
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	28	100	100	340	160	120	130	120
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	28	100	100	340	160	120	130	120
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	4.6	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	3.7	4.4	12	5.3	3.2	6.7	4.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	3.5	12	14	40	17	12	16	12
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	< 2.0	7.9	11	13	16	8.2	14	17
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	< 1.0	15	16	21	23	6.3	13	53
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	< 5.0	23	29	70	38	24	37	33
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	< 10	38	45	91	61	30	51	87
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	33	120	130	410	190	150	170	150
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	33	140	150	430	220	150	180	200
Naphthalene		M	2700	mg/kg	0.10	< 0.10	0.12	0.12	0.14	< 0.10	< 0.10	0.28	< 0.10
Acenaphthylene		M	2700	mg/kg	0.10	0.22	0.12	0.18	0.23	< 0.10	< 0.10	0.24	< 0.10
Acenaphthene		M	2700	mg/kg	0.10	0.19	0.19	0.15	0.15	< 0.10	< 0.10	0.15	< 0.10
Fluorene		M	2700	mg/kg	0.10	0.24	0.10	0.20	0.29	< 0.10	< 0.10	0.23	< 0.10
Phenanthrene		M	2700	mg/kg	0.10	0.55	1.0	0.98	0.59	0.41	0.29	0.65	0.54

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-22989	24-22989	24-22989	24-22989	24-22989	24-22989	24-22989	24-22989	24-22989	24-22989
Quotation No.: Q24-35340		Chemtest Sample ID.:	1837941	1837942	1837943	1837944	1837945	1837946	1837947	1837948		
Order No.: S3240		Client Sample Ref.:	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08
		Client Sample ID.:	TSP08-09I	TSP08-10I	TSP08-11I	TSP08-12I	TSP08-13I	TSP08-14I	TSP08-15I	TSP08-16I		
		Sample Location:	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08		
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Bottom Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Date Sampled:	17-Jul-2024	17-Jul-2024	17-Jul-2024	17-Jul-2024	17-Jul-2024	17-Jul-2024	17-Jul-2024	17-Jul-2024		
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Anthracene		M	2700	mg/kg	0.10	0.19	0.22	0.31	0.26	0.38	0.15	0.36
Fluoranthene		M	2700	mg/kg	0.10	1.7	2.4	2.4	1.9	1.1	1.2	2.7
Pyrene		M	2700	mg/kg	0.10	2.0	2.3	2.5	2.1	1.2	1.2	2.7
Benzo[a]anthracene		M	2700	mg/kg	0.10	1.1	1.2	1.3	1.1	0.81	0.93	1.4
Chrysene		M	2700	mg/kg	0.10	1.3	1.4	1.5	0.88	0.90	0.79	1.4
Benzo[b]fluoranthene		M	2700	mg/kg	0.10	2.2	2.8	2.6	2.3	1.8	1.9	3.0
Benzo[k]fluoranthene		M	2700	mg/kg	0.10	0.64	1.1	0.74	0.99	0.70	0.75	1.0
Benzo[a]pyrene		M	2700	mg/kg	0.10	1.9	2.2	1.9	1.6	1.3	1.4	2.2
Indeno(1,2,3-c,d)Pyrene		M	2700	mg/kg	0.10	1.4	1.7	1.5	1.3	1.1	1.2	1.6
Dibenz(a,h)Anthracene		M	2700	mg/kg	0.10	0.42	1.0	0.41	0.91	0.66	0.72	1.1
Benzo[g,h,i]perylene		M	2700	mg/kg	0.10	1.8	2.1	1.8	1.7	1.3	1.6	2.1
Total Of 16 PAH's		M	2700	mg/kg	2.0	16	20	19	16	12	12	21

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				24-22989	24-22989	24-22989	24-22989	24-22989	24-22989	24-22989
Quotation No.: Q24-35340		Chemtest Sample ID.:				1837949	1837950	1837951	1837952	1837953	1837954	1837955
Order No.: S3240		Client Sample Ref.:				TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08
		Client Sample ID.:				TSP08-171	TSP08-181	TSP08-191	TSP08-201	TSP08-211	TSP08-221	TSP08-231
		Sample Location:				TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):				0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Date Sampled:				17-Jul-2024	17-Jul-2024	17-Jul-2024	17-Jul-2024	17-Jul-2024	17-Jul-2024	17-Jul-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	8.4	8.1	8.7	8.2	8.0	11	8.0
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones, Roots and Glass	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots
Soil Texture		N	2040		N/A	Loam	Loam	Loam	Loam	Loam	Loam	Loam
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	11	15	16	10	9.4	5.6	8.9
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	46	51	65	25	22	10	24
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	50	69	110	32	30	< 2.0	29
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	29	29	44	9.2	6.2	< 3.0	11
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	140	170	230	76	67	16	73
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	140	170	230	76	67	16	73
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	1.2	1.6	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	5.0	8.7	6.5	2.8	5.9	< 1.0	2.9
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	19	27	32	7.7	24	4.9	7.3
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	6.8	17	24	5.6	20	< 2.0	5.1
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	5.3	52	30	32	100	< 1.0	< 1.0
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	31	54	64	16	50	6.4	15
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	36	110	94	48	150	< 10	15
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	170	220	300	92	120	22	89
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	170	270	330	120	220	22	89
Naphthalene		M	2700	mg/kg	0.10	< 0.10	< 0.10	0.12	< 0.10	< 0.10	0.10	< 0.10
Acenaphthylene		M	2700	mg/kg	0.10	< 0.10	< 0.10	0.21	< 0.10	< 0.10	0.20	0.22
Acenaphthene		M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.15	< 0.10
Fluorene		M	2700	mg/kg	0.10	< 0.10	< 0.10	0.14	< 0.10	< 0.10	0.19	0.23
Phenanthrene		M	2700	mg/kg	0.10	0.44	1.1	0.53	0.51	0.62	0.48	0.55

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-22989	24-22989	24-22989	24-22989	24-22989	24-22989	24-22989	24-22989	24-22989	24-22989
Quotation No.: Q24-35340		Chemtest Sample ID.:	1837949	1837950	1837951	1837952	1837953	1837954	1837955			
Order No.: S3240		Client Sample Ref.:	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08
		Client Sample ID.:	TSP08-17I	TSP08-18I	TSP08-19I	TSP08-20I	TSP08-21I	TSP08-22I	TSP08-23I			
		Sample Location:	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08			
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
		Bottom Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
		Date Sampled:	17-Jul-2024	17-Jul-2024	17-Jul-2024	17-Jul-2024	17-Jul-2024	17-Jul-2024	17-Jul-2024			
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Anthracene		M	2700	mg/kg	0.10	0.16	0.48	0.21	0.19	0.36	0.16	0.21
Fluoranthene		M	2700	mg/kg	0.10	1.5	2.6	1.6	1.8	2.6	1.6	2.0
Pyrene		M	2700	mg/kg	0.10	1.5	2.4	1.9	1.8	2.7	1.8	2.1
Benzo[a]anthracene		M	2700	mg/kg	0.10	0.93	1.8	1.0	1.0	1.6	1.1	1.1
Chrysene		M	2700	mg/kg	0.10	0.81	1.7	1.1	1.3	1.4	1.1	1.3
Benzo[b]fluoranthene		M	2700	mg/kg	0.10	1.9	2.8	2.2	2.0	2.9	2.1	2.4
Benzo[k]fluoranthene		M	2700	mg/kg	0.10	0.63	1.1	0.83	0.72	1.2	0.83	0.62
Benzo[a]pyrene		M	2700	mg/kg	0.10	1.5	2.2	1.7	1.6	2.3	1.6	1.8
Indeno(1,2,3-c,d)Pyrene		M	2700	mg/kg	0.10	1.2	1.7	1.4	1.2	1.8	1.4	1.4
Dibenz(a,h)Anthracene		M	2700	mg/kg	0.10	0.75	0.87	0.93	0.70	0.84	0.76	0.34
Benzo[g,h,i]perylene		M	2700	mg/kg	0.10	1.5	1.9	1.6	1.4	2.2	1.6	1.8
Total Of 16 PAH's		M	2700	mg/kg	2.0	13	21	16	14	21	15	16

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8–C10 Aromatics: >C5–C7,>C7–C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request .

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

All Asbestos testing is performed at the indicated laboratory .

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

Sample Deviation Codes

-
- A - Date of sampling not supplied
 - B - Sample age exceeds stability time (sampling to extraction)
 - C - Sample not received in appropriate containers
 - D - Broken Container
 - E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

All water samples will be retained for 14 days from the date of receipt.

Charges may apply to extended sample storage.

Water Sample Category Key for Accreditation

-
- DW - Drinking Water
 - GW - Ground Water
 - LE - Land Leachate
 - NA - Not Applicable

Report Information

PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com



Chemtest
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.: 24-24570-1

Initial Date of Issue: 06-Aug-2024

Re-Issue Details:

Client Sanctus Limited

Client Address: 1 Olympus Park Business Centre
Quedgeley
Gloucester
Gloucestershire
GL2 4DH

Contact(s): Labs

Project S3240 Ardrossan North Shore

Quotation No.: Q24-35340

Date Received: 01-Aug-2024

Order No.: S3240

Date Instructed: 01-Aug-2024

No. of Samples: 49

Turnaround (Wkdays): 3

Results Due: 05-Aug-2024

Date Approved: 06-Aug-2024

Approved By:



Details:  Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-24570	24-24570	24-24570	24-24570	24-24570	24-24570	24-24570	24-24570	24-24570	24-24570
Quotation No.: Q24-35340		Chemtest Sample ID.:	1844459	1844460	1844461	1844462	1844463	1844464	1844465	1844466		
Order No.: S3240		Client Sample Ref.:	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08
		Client Sample ID.:	TSP08-01J	TSP08-02J	TSP08-03J	TSP08-04J	TSP08-05J	TSP08-06J	TSP08-07J	TSP08-08J		
		Sample Location:	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Date Sampled:	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024
Determinand	HWOL Code	Accred.	SQP	Units	LOD							
Moisture		N	2030	%	0.020	14	7.4	7.9	8.5	8.0	8.1	5.0
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Roots and Stones	Stones and Roots	Stones and Roots	Stones and Roots	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Loam	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	2.2	< 2.0	< 2.0	2.3	13	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	55	61	74	69	88	93	46
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	130	160	150	160	160	200	110
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	100	100	130	140	140	190	87
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	18	32	22	15	20	21	13
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	290	320	360	370	390	500	240
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	310	360	380	390	410	520	250
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	1.1	2.4	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	7.2	7.3	7.9	6.6	12	17	4.1
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	38	35	37	45	42	51	26
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	9.2	30	12	11	7.1	7.6	11
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	5.7	140	11	22	11	26	9.1
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	54	72	57	62	63	78	42
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	60	210	68	84	74	100	51
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	350	400	420	430	450	570	280
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	370	560	450	470	480	620	300
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				24-24570	24-24570	24-24570	24-24570	24-24570	24-24570	24-24570	24-24570
Quotation No.: Q24-35340		Chemtest Sample ID.:				1844459	1844460	1844461	1844462	1844463	1844464	1844465	1844466
Order No.: S3240		Client Sample Ref.:				TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08
		Client Sample ID.:				TSP08-01J	TSP08-02J	TSP08-03J	TSP08-04J	TSP08-05J	TSP08-06J	TSP08-07J	TSP08-08J
		Sample Location:				TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Date Sampled:				30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.42	0.29	0.29	< 0.10	0.29	0.25
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	0.23	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.37	0.22	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.33	0.20	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.73	0.55	4.1	1.4	1.8	0.95	1.3	0.71
Anthracene		M	2800	mg/kg	0.10	0.32	0.25	1.3	0.65	0.52	0.72	0.58	0.30
Fluoranthene		M	2800	mg/kg	0.10	2.2	1.8	7.2	4.2	4.1	3.4	3.4	2.1
Pyrene		M	2800	mg/kg	0.10	2.0	1.8	5.9	3.7	3.6	3.3	3.1	2.2
Benzo[a]anthracene		M	2800	mg/kg	0.10	1.2	1.0	2.7	1.9	1.8	2.7	1.9	1.3
Chrysene		M	2800	mg/kg	0.10	0.97	1.2	2.6	1.8	1.8	2.7	1.8	1.3
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	2.1	1.7	3.5	2.7	2.6	3.3	2.7	1.9
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.72	0.56	1.4	1.0	0.97	2.1	1.1	0.92
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.9	1.4	3.0	2.3	2.3	3.0	2.2	1.7
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	1.4	0.96	1.9	1.8	1.5	2.6	1.7	1.3
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.31	0.25	0.40	< 0.10	0.21	1.6	0.54	0.41
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	1.5	1.1	2.0	1.8	1.5	2.5	1.8	1.4
Total Of 16 PAH's		N	2800	mg/kg	2.0	15	13	37	24	23	29	22	16

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-24570	24-24570	24-24570	24-24570	24-24570	24-24570	24-24570	24-24570	24-24570	24-24570
Quotation No.: Q24-35340		Chemtest Sample ID.:	1844467	1844468	1844469	1844470	1844471	1844472	1844473	1844474		
Order No.: S3240		Client Sample Ref.:	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08
		Client Sample ID.:	TSP08-09J	TSP08-10J	TSP08-11J	TSP08-12J	TSP08-13J	TSP08-14J	TSP08-15J	TSP08-16J		
		Sample Location:	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Date Sampled:	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	5.1	6.2	5.2	5.9	44	5.6	5.2
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Roots and Stones	Stones	Stones and Roots	Stones and Roots	Roots and Stones	Stones	Stones and Roots
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0	< 2.0	4.8	5.8	20
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	33	96	27	70	120	110	130
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	62	200	74	140	360	280	210
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	56	180	39	110	270	230	150
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	14	16	< 10	16	36	38	26
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	150	480	140	320	760	620	510
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	170	490	140	340	800	660	540
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	4.4
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	7.1	7.4	7.2	7.9	17	9.2	20
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	19	51	59	40	66	66	70
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	7.2	16	25	9.7	24	14	36
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	3.0	40	20	11	35	26	120
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	34	74	92	58	110	90	130
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	37	110	110	69	140	120	250
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	190	550	230	380	870	710	640
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	200	610	250	400	940	780	790
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-24570	24-24570	24-24570	24-24570	24-24570	24-24570	24-24570	24-24570	24-24570	24-24570	24-24570
Quotation No.: Q24-35340		Chemtest Sample ID.:	1844467	1844468	1844469	1844470	1844471	1844472	1844473	1844474			
Order No.: S3240		Client Sample Ref.:	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08
		Client Sample ID.:	TSP08-09J	TSP08-10J	TSP08-11J	TSP08-12J	TSP08-13J	TSP08-14J	TSP08-15J	TSP08-16J			
		Sample Location:	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Date Sampled:	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Naphthalene		M	2800	mg/kg	0.10	0.21	< 0.10	0.20	0.34	0.26	0.23	0.19	0.20
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.49	0.43	0.36	1.5	0.41	1.1	0.34	0.94
Anthracene		M	2800	mg/kg	0.10	0.17	0.24	0.17	0.42	0.20	0.44	0.18	0.29
Fluoranthene		M	2800	mg/kg	0.10	1.2	1.7	1.3	4.5	1.7	2.9	1.1	2.0
Pyrene		M	2800	mg/kg	0.10	1.1	1.7	1.3	3.8	1.8	2.4	1.1	2.0
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.58	0.94	0.73	1.9	1.1	1.4	0.66	1.1
Chrysene		M	2800	mg/kg	0.10	0.65	0.82	0.56	1.6	1.1	1.4	0.53	1.2
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.1	1.8	1.4	2.4	2.1	1.9	1.1	1.5
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.38	0.65	0.50	0.83	0.74	0.68	0.38	0.53
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.0	1.6	1.1	2.1	1.9	1.6	0.93	1.3
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.75	1.2	0.79	1.3	1.5	1.1	0.75	1.0
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.22	0.25	< 0.10	0.15	0.16
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.65	1.2	0.85	1.3	1.5	1.1	0.79	1.0
Total Of 16 PAH's		N	2800	mg/kg	2.0	8.3	12	9.3	22	15	16	8.2	13

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:					24-24570	24-24570	24-24570	24-24570	24-24570	24-24570	24-24570
Quotation No.: Q24-35340		Chemtest Sample ID.:					1844475	1844476	1844477	1844478	1844479	1844480	1844481
Order No.: S3240		Client Sample Ref.:					TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08
		Client Sample ID.:					TSP08-17J	TSP08-18J	TSP08-19J	TSP08-20J	TSP08-21J	TSP08-22J	TSP08-23J
		Sample Location:					TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08
		Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):					0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):					0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Date Sampled:					30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Moisture		N	2030	%	0.020	6.4	17	6.2	11	5.1	6.9	6.4	
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	
Other Material		N	2040		N/A	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones	Stones	Stones and Roots	
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand	
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	5.3	< 2.0	3.7	5.0	< 2.0	< 2.0	
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	56	95	54	79	110	51	42	
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	150	210	120	160	260	130	120	
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	120	200	93	130	190	96	90	
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	16	31	13	20	34	15	13	
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	330	510	270	380	560	280	250	
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	340	540	280	400	590	290	270	
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	10	8.6	5.6	9.4	18	6.2	8.1	
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	35	54	28	40	66	29	28	
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	9.8	16	18	6.8	14	4.7	11	
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	11	23	13	11	16	8.1	5.6	
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	55	79	51	56	100	40	47	
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	65	100	64	67	120	48	53	
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	380	590	320	430	660	320	300	
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	410	650	350	460	710	340	320	
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-24570	24-24570	24-24570	24-24570	24-24570	24-24570	24-24570	24-24570	24-24570	24-24570
Quotation No.: Q24-35340		Chemtest Sample ID.:	1844475	1844476	1844477	1844478	1844479	1844480	1844481			
Order No.: S3240		Client Sample Ref.:	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08
		Client Sample ID.:	TSP08-17J	TSP08-18J	TSP08-19J	TSP08-20J	TSP08-21J	TSP08-22J	TSP08-23J			
		Sample Location:	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08	TSP08
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Date Sampled:	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Naphthalene		M	2800	mg/kg	0.10	0.30	0.24	0.51	0.15	0.17	< 0.10	0.23
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.28	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.18	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.55	2.4	1.3	0.94	0.32	0.31	0.61
Anthracene		M	2800	mg/kg	0.10	0.24	0.46	0.40	0.42	0.13	0.14	0.28
Fluoranthene		M	2800	mg/kg	0.10	1.7	4.9	2.5	2.9	0.93	1.1	2.0
Pyrene		M	2800	mg/kg	0.10	1.7	4.2	2.3	2.5	0.98	1.1	1.8
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.84	2.0	1.2	1.3	0.50	0.56	1.2
Chrysene		M	2800	mg/kg	0.10	0.91	1.9	0.93	1.3	0.45	0.62	0.95
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.6	3.0	1.9	2.2	0.95	1.0	1.7
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.52	1.1	0.59	0.74	0.36	0.35	0.71
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.3	2.8	1.6	1.8	0.78	0.85	1.3
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	1.0	1.9	1.2	1.2	0.64	0.63	0.93
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.18	0.36	< 0.10	0.24	< 0.10	< 0.10	0.26
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	1.1	1.9	1.1	1.3	0.70	0.62	0.95
Total Of 16 PAH's		N	2800	mg/kg	2.0	12	27	16	17	6.9	7.3	13

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2030	Moisture and Stone Content of Soils (Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description (Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics. (cf. USEPA Method 8260)* please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7, >C7–C8, >C8–C10 Aromatics: >C5–C7, >C7–C8, >C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenzo[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request .

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

All Asbestos testing is performed at the indicated laboratory .

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

Sample Deviation Codes

-
- A - Date of sampling not supplied
 - B - Sample age exceeds stability time (sampling to extraction)
 - C - Sample not received in appropriate containers
 - D - Broken Container
 - E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

All water samples will be retained for 14 days from the date of receipt.

Charges may apply to extended sample storage.

Water Sample Category Key for Accreditation

-
- DW - Drinking Water
 - GW - Ground Water
 - LE - Land Leachate
 - NA - Not Applicable

Report Information

PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

**Treated Stockpile Reuse Validation Form 008 – TSP10****Stockpile ID**

Stockpile ID: TSP10

Material Volume:

2,000 m³

Validation Samples Included

20 No.

Tested Location: Treatment Area 01

Stockpile Creation Date: 15/05/2024

Release Date: TBC

Sampling Data (3No. full rounds for validation to release)

Passing Round 1 (Overall Sample Round 5 of 7)	Sample Date: 17/07/2024	Report Number & Date: 24-24570 – 05/08/2024	Lab: Eurofins
Passing Round 2 (Overall Sample Round 6 of 7)	Sample Date: 13/08/2024	Report Number & Date: 24-26282 (20/08/2024) & 24-27049 (29/08/2024)	Lab: Eurofins
Passing Round 3 (Overall Sample Round 7 of 7)	Sample Date: 20/08/2024	Report Number & Date: 24-26904 – 23/08/2024	Lab: Eurofins

Sampling Data**Passing Round 1**

Report Number: 24-016293

Report Date: 05/08/2024

Sample ID (Sample Names): TSP10-01C →
TSP10-08C and TSP09B → TSP10-20B

Report ID (Lab): Eurofins

Comments:**Test Results: PASS / FAIL**

Overall, 5th round of sampling undertaken from the treated Stockpile. No exceedances seen throughout. Average Total TPH = 206 mg/kg. Sanctus deem this round of sampling as chemically suitable for reuse.

Passing Round 2

Report Number: 24-26282 & 24-27049

Report Date: 20/08/2024 & 29/08/2024

Sample ID (Sample Names): TSP10-01E → TSP10-08E and
TSP09D → TSP10-20D – Special note on TSP10-07E* below

Report ID (Lab): Eurofins

Comments:**Test Results: PASS / FAIL**

Overall, 6th round of sampling undertaken from the treated Stockpile. No exceedances seen throughout the final accepted data. Average Total TPH = 130 mg/kg. A Single sample (Laboratory Ref: 1852006, Sanctus Reference TSP10-07E) was highlighted by both the laboratory and Sanctus as having an unusually high total TPH level. As such, this single sample was re-tested as part of the testing laboratories internal QA/QC procedure, with its resultant speciated and Total TPH levels seen in line with the surrounding samples results (Laboratory Ref: 18555031, Sanctus Reference TSP10-07E*). From review of both laboratory reports for this round, Sanctus deem this final round of sampling as chemically suitable for reuse.

Passing Round 3

Report Number: 24-26904

Report Date: 23/08/2024

Sample ID (Sample Names): TSP09-01D, TSP09-14D,
TSP09-15D, TSP09-16D, TSP09-17D, TSP09-18D,
TSP09-19D, TSP09-20D

Report ID (Lab): Eurofins

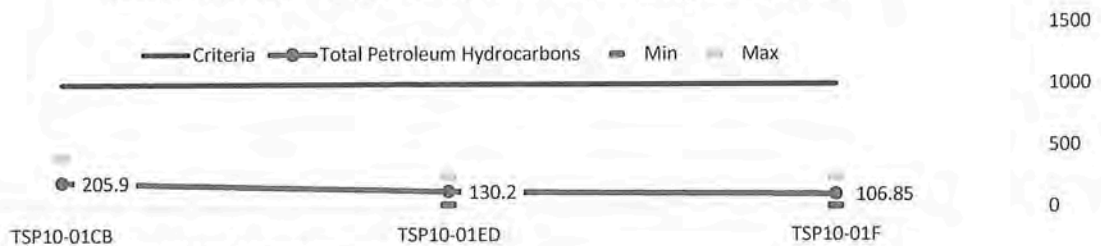
Comments:**Test Results: PASS / FAIL**

Overall, 7th round of sampling undertaken from the treated Stockpile. No exceedances seen throughout. Sanctus deem this round of sampling as chemically suitable for reuse.

Data Review

Data Trend for Total TPH levels:

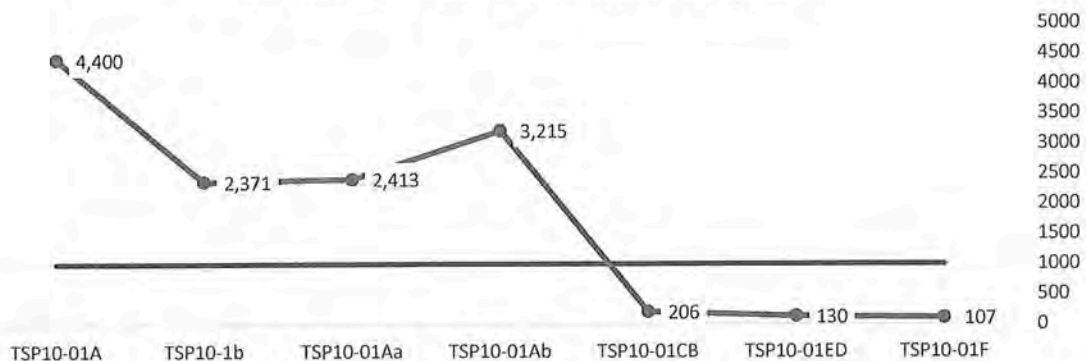
Min & Max Soil Values for Total Petroleum Hydrocarbons



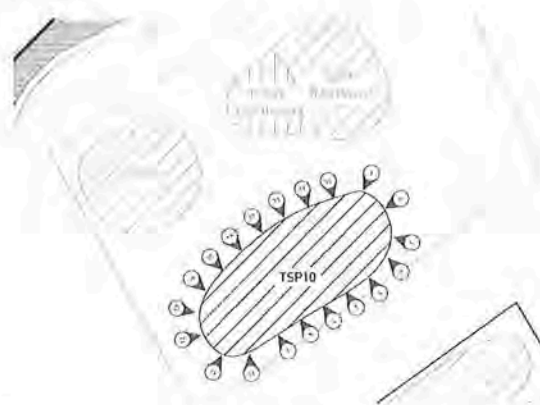
Additional Trendline Data – long term review:

Further to the above spread of data for the final 3 No. rounds, the total TPH levels from May 2024, for the treated stockpile, are shown below. The chart shows a significant decrease in the averaged total TPH levels, and the final result presents a reduction of total TPH level of 98% when compared to the highest material's contents (4,400 mg/kg (15th May 2024), compared to 107 mg/kg (20th August 2024)):

Soil Values for Total Petroleum Hydrocarbons



Treated Stockpile Sample Plan:



Sampling Strategy:

All samples have been taken in compliance with ISO BS 18400, including the following notes:

- Stainless steel/washable sampling devices (trowels, buckets, etc) will be employed for the gathering of the soils samples and cleaned between each sample location so that consecutive samples are not cross-contaminated.
- The sample positions shown above indicate the position relative to the base boundary of the stockpile. All samples are taken from a within the body of the Stockpile, retrieved by an excavator. This is done as a safe sample retrieval option as well as to target an internal representative sample location mid-way from the edge to the centre of the Stockpile, as discussed under BS ISO 18400-104:2018 (Sampling Strategies), subsection 9.
- The subsequent sample depths were between 1-2 m below the Stockpile's surface and a minimum of 4No. characteristic subsamples were taken from an area of approximately 1m² of the newly exposed material. The 4No. or more sub-locations were chosen in a X-pattern and the combined testing soil material is described as a composite sample, following a systematic stratified random sub-sampling location of a 3-dimensional source.
- The mechanically retrieved material is then sub-sampled into the required sampling jars/pots by the Sanctus Engineer as a representative sample from the numbered location.



Sanctus Declaration:

We confirm that:

1. The material that this form relates to, has been sampled representatively, as discussed above and in accordance with the client's requirements (Ardrossan Remediation Specification Rev E).
2. The material has been proven to be suitable for REUSE on site as there are 3 No. consecutive rounds, with a statistical insignificant number of exceedances of the accepted reuse criteria. No exceedances are seen within the all three monitoring rounds and each round's average for the total TPH levels have been significantly below the 1,000 mg/kg threshold level.
3. The laboratory analysis results are representative of the materials investigated.
4. The material released will also be recorded spatially at its reuse location.

NAME: [REDACTED]

POSITION: Senior Environmental Engineer

DATE: 07/10/2024

SIGNED:

X

Senior Environmental Engineer

Signed by: 7ee90afd-5b10-4b4f-a839-775383c68d48

Record of reuse

For Sanctus Use Only:

Approved for reuse:

Beginning of Movement from stockpile:

End of Movement into site:



- Legend:
- Site Boundary
 - ▨ Treated Stockpile Location



Sanctus House, 1 Olympus Park Business Centre,
Guedgeley, Glos, GL2 4DH
T: 01453 828222
E: info@sanctustd.co.uk www.sanctustd.com

Drawing Notes:
Based on client supplied DWG -
ARDROSSAN 2D produced by Aird Group
23/03/2020. All locations are approximate.
Must be printed in colour.

Site Address:
Raylight Place
Ardrossan
North Ayrshire
Scotland

Rev.	Description	Date
A	First Issue	07/10/2024

APPROVED

Project Name: North Shore, Ardrossan		
Client: North Ayrshire Council		
Drawing Title: Treated Stockpile 10 Locations		
Contract No: S3240	Drawing No: D3240/102	Scale @ A3: 1:1000
Drawn By:	QC Check By:	Approved By:

Sample ID	Date Sampled	Total Extractable Hydrocarbon THF <100°C mg/kg	Aliphatic THF <100°C mg/kg	Aromatic THF <100°C mg/kg	Aliphatic THF <100°C mg/kg	Aliphatic THF <100°C mg/kg	Aliphatic THF <100°C mg/kg	Aliphatic THF <100°C mg/kg	Aliphatic THF <100°C mg/kg	Aliphatic THF <100°C mg/kg	Aliphatic THF <100°C mg/kg	Aliphatic THF <100°C mg/kg	Aliphatic THF <100°C mg/kg	Aliphatic THF <100°C mg/kg	Aliphatic THF <100°C mg/kg	Aliphatic THF <100°C mg/kg	Aliphatic THF <100°C mg/kg	Aliphatic THF <100°C mg/kg	Aliphatic THF <100°C mg/kg
Unit		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOD		10	0.02	0.02	0.05	1	2	8	8	100	100	100	100	100	100	100	100	100	100
Screening Criteria		1000	75	250	50	350	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
TSP10-01C	17/07/2024	21	< 0.05	< 0.10	< 0.05	8.5	7.1	< 2.0	< 3.0	16	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	4.9	< 2.0	5.7	
TSP10-02C	17/07/2024	100	< 0.05	< 0.10	< 0.05	9.4	18	24	13	65	< 0.05	< 0.05	< 0.05	< 1.0	2.8	11	5.1	19	
TSP10-03C	17/07/2024	160	< 0.05	< 0.10	< 0.05	11	30	37	31	110	< 0.05	< 0.05	< 0.05	< 0.05	1.6	6.2	20	9.2	37
TSP10-04C	17/07/2024	300	< 0.05	< 0.10	< 0.05	12	42	79	39	170	< 0.05	< 0.05	< 0.05	< 0.05	1.8	9.5	36	20	67
TSP10-05C	17/07/2024	300	< 0.05	< 0.10	< 0.05	15	60	73	58	210	< 0.05	< 0.05	< 0.05	< 0.05	2.7	8.4	35	19	65
TSP10-06C	17/07/2024	120	< 0.05	< 0.10	< 0.05	9.7	20	21	21	71	< 0.05	< 0.05	< 0.05	< 0.05	1.2	5.2	13	11	31
TSP10-07C	17/07/2024	210	< 0.05	< 0.10	< 0.05	11	34	56	36	140	< 0.05	< 0.05	< 0.05	< 0.05	1.9	6.6	26	17	52
TSP10-08C	17/07/2024	400	< 0.05	< 0.10	< 0.05	26	110	97	61	290	< 0.05	< 0.05	< 0.05	< 0.05	8.8	15	45	14	83
TSP10-09B	17/07/2024	56	< 0.05	< 0.10	< 0.05	9.5	9.1	11	4.6	35	< 0.05	< 0.05	< 0.05	< 0.05	1.6	< 1.0	7.4	4.5	14
TSP10-10B	17/07/2024	390	< 0.05	< 0.10	< 0.05	20	70	110	80	280	< 0.05	< 0.05	< 0.05	< 0.05	2.8	13	49	23	87
TSP10-11B	17/07/2024	410	< 0.05	< 0.10	< 0.05	17	69	110	72	270	< 0.05	< 0.05	< 0.05	< 0.05	3.5	20	48	22	93
TSP10-12B	17/07/2024	250	< 0.05	< 0.10	< 0.05	11	34	63	53	160	< 0.05	< 0.05	< 0.05	< 0.05	1.6	6	29	21	57
TSP10-13B	17/07/2024	200	< 0.05	< 0.10	< 0.05	13	34	55	42	140	< 0.05	< 0.05	< 0.05	< 0.05	2.2	5.5	25	13	45
TSP10-14B	17/07/2024	130	< 0.05	< 0.10	< 0.05	10	17	34	35	96	< 0.05	< 0.05	< 0.05	< 0.05	1.3	3.6	12	7	24
TSP10-15B	17/07/2024	180	< 0.05	< 0.10	< 0.05	17	37	48	26	130	< 0.05	< 0.05	< 0.05	< 0.05	3.4	9.1	24	9.8	46
TSP10-16B	17/07/2024	250	< 0.05	< 0.10	< 0.05	13	42	69	57	180	< 0.05	< 0.05	< 0.05	< 0.05	1.8	6.9	29	15	52
TSP10-17B	17/07/2024	270	< 0.05	< 0.10	< 0.05	14	37	63	15	130	< 0.05	< 0.05	< 0.05	< 0.05	2.3	14	50	42	110
TSP10-18B	17/07/2024	130	< 0.05	< 0.10	< 0.05	10	21	31	28	90	< 0.05	< 0.05	< 0.05	< 0.05	1.4	3.8	13	8.7	27
TSP10-19B	17/07/2024	61	< 0.05	< 0.10	< 0.05	9.6	14	17	6.9	48	< 0.05	< 0.05	< 0.05	< 0.05	< 1.0	1.7	9.5	< 2.0	14
TSP10-20B	17/07/2024	180	< 0.05	< 0.10	< 0.05	11	28	40	36	110	< 0.05	< 0.05	< 0.05	< 0.05	1.6	4.9	20	12	39
TSP10-01E	13/08/2024	230	< 0.05	< 0.10	< 0.05	2.4	28	45	31	110	< 0.05	< 0.05	< 0.05	< 0.05	< 1.0	4.7	37	59	100
TSP10-02E	13/08/2024	62	< 0.05	< 0.10	< 0.05	< 2.0	6.7	22	13	41	< 0.05	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	8.7	7.6	17
TSP10-03E	13/08/2024	200	< 0.05	< 0.10	< 0.05	< 2.0	31	55	42	130	< 0.05	< 0.05	< 0.05	< 0.05	< 1.0	4.9	30	22	57
TSP10-04E	13/08/2024	49	< 0.05	< 0.10	< 0.05	< 2.0	5.7	22	7.3	35	< 0.05	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	8.2	3.2	12
TSP10-05E	13/08/2024	97	< 0.05	< 0.10	< 0.05	< 2.0	9.3	31	27	69	< 0.05	< 0.05	< 0.05	< 0.05	< 1.0	1.1	12	9.4	22
TSP10-06E	13/08/2024	130	< 0.05	< 0.10	< 0.05	< 2.0	15	38	34	88	< 0.05	< 0.05	< 0.05	< 0.05	< 1.0	2.2	15	18	35
TSP10-07E	13/08/2024	89	< 0.05	< 0.10	< 0.05	5	9.2	15	15	44	< 0.05	< 0.05	< 0.05	< 0.05	< 1.0	4	21	16	40
TSP10-08E	13/08/2024	76	< 0.05	< 0.10	< 0.05	< 2.0	1.7	8.8	5.8	18	< 0.05	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	5.5	4	10
TSP10-09D	13/08/2024	190	< 0.05	< 0.10	< 0.05	2.9	22	39	35	99	< 0.05	< 0.05	< 0.05	< 0.05	< 1.0	5.2	40	35	80
TSP10-10D	13/08/2024	76	< 0.05	< 0.10	< 0.05	< 2.0	8.1	22	21	52	< 0.05	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	8	9.9	18
TSP10-11D	13/08/2024	180	< 0.05	< 0.10	< 0.05	5.6	21	31	28	84	< 0.05	< 0.05	< 0.05	< 0.05	< 1.0	5.4	34	29	69
TSP10-12D	13/08/2024	23	< 0.05	< 0.10	< 0.05	6.4	3.7	4.6	< 3.0	16	< 0.05	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	5.5	< 2.0	7.2
TSP10-13D	13/08/2024	24	< 0.05	< 0.10	< 0.05	5.7	< 1.0	< 2.0	< 3.0	7.3	< 0.05	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	9.7	5.7	16
TSP10-14D	13/08/2024	96	< 0.05	< 0.10	< 0.05	5.3	5.8	15	7.4	34	< 0.05	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	37	22	59
TSP10-15D	13/08/2024	210	< 0.05	< 0.10	< 0.05	6.4	28	30	24	88	< 0.05	< 0.05	< 0.05	< 0.05	< 1.0	7.7	38	37	83
TSP10-16D	13/08/2024	62	< 0.05	< 0.10	< 0.05	5.7	4.7	20	5.7	36	< 0.05	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	16	8.8	25
TSP10-17D	13/08/2024	230	< 0.05	< 0.10	< 0.05	6.6	29	30	25	91	< 0.05	< 0.05	< 0.05	< 0.05	< 1.0	11	31	38	80
TSP10-18D	13/08/2024	150	< 0.05	< 0.10	< 0.05	5.8	24	27	20	76	< 0.05	< 0.05	< 0.05	< 0.05	< 1.0	7	44	19	70
TSP10-19D	13/08/2024	250	< 0.05	< 0.10	< 0.05	6.1	29	46	48	130	< 0.05	< 0.05	< 0.05	< 0.05	< 1.0	8.6	60	40	110
TSP10-20D	13/08/2024	180	< 0.05	< 0.10	< 0.05	5.1	23	27	28	84	< 0.05	< 0.05	< 0.05	< 0.05	< 1.0	3.5	25	30	59
TSP10-01F	20/08/2024	220	< 0.05	< 0.10	< 0.05	< 2.0	17	55	54	130	< 0.05	< 0.05	< 0.05	< 0.05	< 1.0	4.6	28	26	57
TSP10-02F	20/08/2024	240	< 0.05	< 0.10	< 0.05	< 2.0	20	71	68	160	< 0.05	< 0.05	< 0.05	< 0.05	< 1.0	2.8	26	30	89
TSP10-03F	20/08/2024	150	< 0.05	< 0.10	< 0.05	< 2.0	9.8	43	50	100	< 0.05	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	16	17	33
TSP10-04F	20/08/2024	97	< 0.05	< 0.10	< 0.05	< 2.0	7.4	31	34	73	< 0.05	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	5.9	8.8	15
TSP10-05F	20/08/2024	92	< 0.05	< 0.10	< 0.05	< 2.0	6	25	25	57	< 0.05	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	5.7	16	22
TSP10-06F	20/08/2024	87	< 0.05	< 0.10	< 0.05	< 2.0	5.5	24	25	55	< 0.05	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	6.8	14	21
TSP10-07F	20/08/2024	170	< 0.05	< 0.10	< 0.05	< 2.0	13	40	39	93	< 0.05	< 0.05	< 0.05	< 0.05	< 1.0	2.3	24	34	60
TSP10-08F	20/08/2024	98	< 0.05	< 0.10	< 0.05	< 2.0	7.8	25	25	57	< 0.05	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	6.3	12	18
TSP10-09F	20/08/2024	150	< 0.05	< 0.10	< 0.05	< 2.0	1.8	37	34	74	< 0.05	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	7.1	19	28
TSP10-10F	20/08/2024	140	< 0.05	< 0.10	< 0.05	< 2.0	3.4	37	18	61	< 0.05	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	8.8	25	34
TSP10-11F	20/08/2024	100	< 0.05	< 0.10	< 0.12	< 2.0	< 1.0	22	7.2	29	< 0.05	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	17	29	47
TSP10-12F	20/08/2024	27	< 0.05	< 0.10	< 0.05	< 2.0	< 1.0	< 2.0	< 3.0	< 5.0	< 0.05	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	9.5	11	20
TSP10-13F	20/08/2024	< 10	< 0.05	< 0.10	< 0.05	< 2.0	< 1.0	< 2.0	< 3.0	< 5.0	< 0.05	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	< 2.0	< 5.0	
TSP10-14F	20/08/2024	15	< 0.05	< 0.10	< 0.05	< 2.0	< 1.0	2.2	< 3.0	< 5.0	< 0.05	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	4.3	6.4	11
TSP10-15F	20/08/2024	160	< 0.05	< 0.10	< 0.05	< 2.0	< 1.0	27	20	48	< 0.05	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	4.6	20	25
TSP10-16F	20/08/2024	180	< 0.05	< 0.10	< 0.05	< 2.0	7.4	45	31	86	< 0.05	< 0.05</							



Chemtest
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.: 24-24570-1

Initial Date of Issue: 06-Aug-2024

Re-Issue Details:

Client Sanctus Limited

Client Address: 1 Olympus Park Business Centre
Quedgeley
Gloucester
Gloucestershire
GL2 4DH

Contact(s): Labs

Project S3240 Ardrossan North Shore

Quotation No.: Q24-35340

Date Received: 01-Aug-2024

Order No.: S3240

Date Instructed: 01-Aug-2024

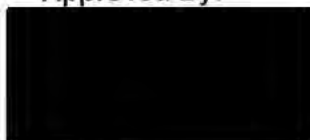
No. of Samples: 49

Turnaround (Wkdays): 3

Results Due: 05-Aug-2024

Date Approved: 06-Aug-2024

Approved By:



Details:  Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-24570	24-24570	24-24570	24-24570	24-24570	24-24570	24-24570	24-24570	24-24570	24-24570
Quotation No.: Q24-35340		Chemtest Sample ID.:	1844482	1844483	1844484	1844485	1844486	1844487	1844488	1844489		
Order No.: S3240		Client Sample Ref.:	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10
		Client Sample ID.:	TSP10-01D	TSP10-02D	TSP10-03D	TSP10-4D	TSP10-5D	TSP10-6D	TSP10-7D	TSP10-8D		
		Sample Location:	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Date Sampled:	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	9.2	9.8	8.1	7.4	7.3	7.9	6.7
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones and Roots	Stones	Stones and Roots	Stones and Roots	Stones and Roots
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	3.2	7.2	4.5	3.3	< 2.0	2.8	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	70	110	92	71	45	110	69
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	190	220	160	180	130	180	140
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	150	130	140	150	100	140	120
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	20	< 10	20	22	17	23	16
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	410	460	390	400	280	440	320
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	430	460	410	420	300	460	340
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	9.2	19	6.2	9.5	10	17	8.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	46	59	43	43	32	58	39
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	8.4	21	9.6	9.1	13	6.4	9.1
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	16	73	23	15	8.7	13	9.8
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	64	100	58	62	55	82	56
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	79	170	82	77	64	95	66
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	480	560	450	460	340	520	380
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	510	630	500	500	360	550	410
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				24-24570	24-24570	24-24570	24-24570	24-24570	24-24570	24-24570	24-24570
Quotation No.: Q24-35340		Chemtest Sample ID.:				1844482	1844483	1844484	1844485	1844486	1844487	1844488	1844489
Order No.: S3240		Client Sample Ref.:				TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10
		Client Sample ID.:				TSP10-01D	TSP10-02D	TSP10-03D	TSP10-4D	TSP10-5D	TSP10-6D	TSP10-7D	TSP10-8D
		Sample Location:				TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Date Sampled:				30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Naphthalene		M	2800	mg/kg	0.10	0.21	< 0.10	0.19	< 0.10	0.19	0.20	< 0.10	0.20
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.74	0.55	0.52	0.91	1.1	0.77	0.36	0.89
Anthracene		M	2800	mg/kg	0.10	0.29	0.38	0.25	0.33	0.61	0.41	0.15	0.33
Fluoranthene		M	2800	mg/kg	0.10	2.0	2.1	1.6	2.7	3.3	2.1	1.1	2.7
Pyrene		M	2800	mg/kg	0.10	2.0	2.0	1.6	2.5	2.9	2.1	1.2	2.6
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.99	0.91	0.91	1.3	1.5	1.5	0.62	1.3
Chrysene		M	2800	mg/kg	0.10	1.0	0.81	0.90	1.2	1.5	1.6	0.55	1.3
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.6	1.4	1.5	1.8	2.2	2.1	0.93	2.3
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.60	0.50	0.53	0.68	0.78	1.0	0.34	0.93
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.5	1.2	1.3	1.6	1.9	1.8	0.85	2.0
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.99	0.89	0.83	0.97	1.3	1.6	0.62	1.5
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.18	< 0.10	0.21	0.21	0.23	0.75	< 0.10	0.36
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	1.1	1.0	0.88	1.1	1.3	1.5	0.65	1.5
Total Of 16 PAH's		N	2800	mg/kg	2.0	13	12	11	15	19	17	7.4	18

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-24570	24-24570	24-24570	24-24570	24-24570	24-24570	24-24570	24-24570	24-24570	24-24570	24-24570
Quotation No.: Q24-35340		Chemtest Sample ID.:	1844490	1844491	1844492	1844493	1844494	1844495	1844496	1844497	1844498	1844499	1844500
Order No.: S3240		Client Sample Ref.:	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10
		Client Sample ID.:	TSP10-9C	TSP10-10C	TSP10-11C	TSP10-12C	TSP10-13C	TSP10-14C	TSP10-15C	TSP10-16C	TSP10-17C	TSP10-18C	TSP10-19C
		Sample Location:	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Date Sampled:	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Moisture		N	2030	%	0.020	7.5	7.8	6.7	6.4	7.3	6.9	7.5	7.3
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones and Roots	Stones and Roots	Stones, Roots and Glass	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	51	3.8	9.5	6.7	7.6	6.7	4.2
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	58	420	100	78	73	85	83	76
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	140	920	200	190	180	180	160	150
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	100	520	160	130	140	140	130	110
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	16	< 10	15	< 10	< 10	< 10	12	12
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	300	1900	470	400	410	420	380	340
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	310	1900	490	400	410	420	390	350
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	9.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	7.1	120	8.0	5.9	5.5	7.6	7.8	6.3
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	34	290	58	50	46	45	48	47
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	7.1	110	39	34	37	31	29	24
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	8.1	320	34	30	33	33	27	24
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	48	530	100	90	88	83	85	77
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	56	840	140	120	120	120	110	100
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	350	2400	580	490	490	500	460	410
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	370	2800	630	520	530	530	500	450
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-24570	24-24570	24-24570	24-24570	24-24570	24-24570	24-24570	24-24570	24-24570	24-24570	24-24570
Quotation No.: Q24-35340		Chemtest Sample ID.:	1844490	1844491	1844492	1844493	1844494	1844495	1844496	1844497			
Order No.: S3240		Client Sample Ref.:	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10
		Client Sample ID.:	TSP10-9C	TSP10-10C	TSP10-11C	TSP10-12C	TSP10-13C	TSP10-14C	TSP10-15C	TSP10-16C			
		Sample Location:	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Date Sampled:	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Naphthalene		M	2800	mg/kg	0.10	0.24	0.24	0.30	0.18	< 0.10	0.18	0.29	0.19
Acenaphthylene		N	2800	mg/kg	0.10	0.33	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.22	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	0.40	0.14	< 0.10	< 0.10	< 0.10	< 0.10	0.22	< 0.10
Fluorene		M	2800	mg/kg	0.10	0.41	0.20	< 0.10	< 0.10	< 0.10	< 0.10	0.22	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	2.9	0.73	1.1	0.83	1.1	0.46	0.76	0.54
Anthracene		M	2800	mg/kg	0.10	1.4	0.52	0.38	0.66	0.62	0.23	0.52	0.32
Fluoranthene		M	2800	mg/kg	0.10	6.1	2.0	2.4	2.2	3.5	1.5	2.2	2.1
Pyrene		M	2800	mg/kg	0.10	5.3	2.0	2.5	2.2	3.2	1.5	2.3	2.0
Benzo[a]anthracene		M	2800	mg/kg	0.10	3.4	1.7	1.7	2.2	2.4	1.2	1.9	1.4
Chrysene		M	2800	mg/kg	0.10	3.3	1.8	1.4	2.2	2.3	1.2	1.8	1.4
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	4.0	2.0	2.8	2.5	3.3	1.6	2.4	2.0
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	2.0	1.4	1.1	2.0	1.6	0.97	1.4	1.1
Benzo[a]pyrene		M	2800	mg/kg	0.10	3.4	1.9	2.5	2.2	2.8	1.4	2.2	1.7
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	2.6	1.7	1.9	2.2	2.2	1.2	1.9	1.4
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	1.3	1.2	0.50	1.6	0.94	0.67	1.1	0.72
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	2.5	1.7	2.0	2.1	2.2	1.2	1.9	1.3
Total Of 16 PAH's		N	2800	mg/kg	2.0	40	19	21	23	26	13	21	16

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				24-24570	24-24570	24-24570	24-24570
Quotation No.: Q24-35340		Chemtest Sample ID.:				1844498	1844499	1844500	1844501
Order No.: S3240		Client Sample Ref.:				TSP10	TSP10	TSP10	TSP10
		Client Sample ID.:				TSP10-17C	TSP10-18C	TSP10-19C	TSP10-20C
		Sample Location:				TSP10	TSP10	TSP10	TSP10
		Sample Type:				SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.00	0.00	0.00	0.00
		Bottom Depth (m):				0.00	0.00	0.00	0.00
		Date Sampled:				30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
Moisture		N	2030	%	0.020	6.3	7.9	7.6	7.7
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones and Roots	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	5.0	4.4	6.3	5.5
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	75	68	74	70
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	140	140	180	130
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	120	100	140	110
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	12	< 10	< 10	12
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	340	320	400	320
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	360	320	400	340
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	5.6	6.4	4.9	6.6
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	42	41	48	40
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	23	31	35	21
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	24	29	32	23
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	70	78	88	67
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	95	110	120	91
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	410	390	490	390
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	450	420	520	430
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-24570	24-24570	24-24570	24-24570
Quotation No.: Q24-35340		Chemtest Sample ID.:	1844498	1844499	1844500	1844501
Order No.: S3240		Client Sample Ref.:	TSP10	TSP10	TSP10	TSP10
		Client Sample ID.:	TSP10-17C	TSP10-18C	TSP10-19C	TSP10-20C
		Sample Location:	TSP10	TSP10	TSP10	TSP10
		Sample Type:	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00
		Bottom Depth (m):	0.00	0.00	0.00	0.00
		Date Sampled:	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
Naphthalene		M	2800	mg/kg	0.10	0.32
Acenaphthylene		N	2800	mg/kg	0.10	0.38
Acenaphthene		M	2800	mg/kg	0.10	0.40
Fluorene		M	2800	mg/kg	0.10	0.42
Phenanthrene		M	2800	mg/kg	0.10	0.94
Anthracene		M	2800	mg/kg	0.10	0.70
Fluoranthene		M	2800	mg/kg	0.10	2.5
Pyrene		M	2800	mg/kg	0.10	2.6
Benzo[a]anthracene		M	2800	mg/kg	0.10	2.2
Chrysene		M	2800	mg/kg	0.10	2.3
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	3.0
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	2.1
Benzo[a]pyrene		M	2800	mg/kg	0.10	2.6
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	2.5
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	1.6
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	2.5
Total Of 16 PAH's		N	2800	mg/kg	2.0	27

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8–C10 Aromatics: >C5–C7,>C7–C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request .

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

All Asbestos testing is performed at the indicated laboratory .

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

Sample Deviation Codes

-
- A - Date of sampling not supplied
 - B - Sample age exceeds stability time (sampling to extraction)
 - C - Sample not received in appropriate containers
 - D - Broken Container
 - E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

All water samples will be retained for 14 days from the date of receipt.

Charges may apply to extended sample storage.

Water Sample Category Key for Accreditation

-
- DW - Drinking Water
 - GW - Ground Water
 - LE - Land Leachate
 - NA - Not Applicable

Report Information

PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

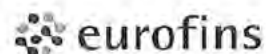
Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com



Chemtest
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.: 24-26282-1
Initial Date of Issue: 20-Aug-2024

Re-Issue Details:

Client: Sanctus Limited
Client Address: 1 Olympus Park Business Centre
Quedgeley
Gloucester
Gloucestershire
GL2 4DH

Contact(s): Labs

Project: S3240 Adrossan North Shore

Quotation No.: Q24-35340

Date Received: 15-Aug-2024

Order No.: S3240

Date Instructed: 15-Aug-2024

No. of Samples: 20

Turnaround (Wkdays): 4

Results Due: 20-Aug-2024

Date Approved: 20-Aug-2024

Approved By:

Details: [Redacted] Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: S3240 Adrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-26282	24-26282	24-26282	24-26282	24-26282	24-26282	24-26282	24-26282	24-26282	24-26282
Quotation No.: Q24-35340		Chemtest Sample ID.:	1852000	1852001	1852002	1852003	1852004	1852005	1852006	1852007	1852007	1852007
Order No.: S3240		Client Sample Ref.:	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10
		Client Sample ID.:	TSP10-01E	TSP10-02E	TSP10-03E	TSP10-04E	TSP10-05E	TSP10-06E	TSP10-07E	TSP10-08E	TSP10-08E	TSP10-08E
		Sample Location:	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Date Sampled:	13-Aug-2024	13-Aug-2024	13-Aug-2024	13-Aug-2024	13-Aug-2024	13-Aug-2024	13-Aug-2024	13-Aug-2024	13-Aug-2024	13-Aug-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	7.2	6.3	6.5	7.7	7.1	14	15
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones and	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	2.4	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	28	6.7	31	5.7	9.3	15	3.2
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	45	22	55	22	31	38	65
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	31	13	42	7.3	27	34	1700
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10	< 10	< 10	540
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	110	41	130	35	69	88	1700
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	110	41	130	35	69	88	2300
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	4.7	< 1.0	4.9	< 1.0	1.1	2.2	3.4
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	37	8.7	30	8.2	12	15	60
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	59	7.8	22	3.2	9.4	18	380
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	21	3.9	13	1.7	6.0	10	890
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	100	17	57	12	22	35	440
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	120	21	70	14	28	45	1300
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	210	59	190	47	91	120	2200
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	230	62	200	49	97	130	3600
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: S3240 Adrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-26282	24-26282	24-26282	24-26282	24-26282	24-26282	24-26282	24-26282	24-26282	24-26282
Quotation No.: Q24-35340		Chemtest Sample ID.:	1852000	1852001	1852002	1852003	1852004	1852005	1852006	1852007	1852008	1852009
Order No.: S3240		Client Sample Ref.:	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10
		Client Sample ID.:	TSP10-01E	TSP10-02E	TSP10-03E	TSP10-04E	TSP10-05E	TSP10-06E	TSP10-07E	TSP10-08E	TSP10-09E	TSP10-10E
		Sample Location:	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Date Sampled:	13-Aug-2024	13-Aug-2024	13-Aug-2024	13-Aug-2024	13-Aug-2024	13-Aug-2024	13-Aug-2024	13-Aug-2024	13-Aug-2024	13-Aug-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Naphthalene		M	2800	mg/kg	0.10	0.24	< 0.10	0.35	< 0.10	0.13	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	0.11	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	0.20	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	0.35	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	2.0	0.35	0.43	< 0.10	0.24	0.32	< 0.10
Anthracene		M	2800	mg/kg	0.10	0.49	< 0.10	0.17	0.14	< 0.10	0.12	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	2.6	0.81	1.2	1.1	1.1	1.3	0.99
Pyrene		M	2800	mg/kg	0.10	2.3	0.85	1.1	1.0	1.1	1.3	0.94
Benzo[a]anthracene		M	2800	mg/kg	0.10	1.1	0.46	0.60	0.50	< 0.10	0.81	0.45
Chrysene		M	2800	mg/kg	0.10	1.1	0.44	0.66	0.55	< 0.10	0.81	0.34
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.5	0.87	1.1	0.84	< 0.10	1.2	0.78
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.66	0.25	0.37	0.28	< 0.10	0.43	0.22
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.2	< 0.10	0.86	0.74	< 0.10	0.95	0.66
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	1.0	< 0.10	0.62	0.56	< 0.10	0.71	0.48
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.25	< 0.10	0.12	< 0.10	< 0.10	< 0.10	0.11
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	1.0	< 0.10	0.70	0.60	< 0.10	0.74	0.53
Total Of 16 PAH's		N	2800	mg/kg	2.0	16	4.0	8.3	6.7	2.3	8.6	5.9

Results - Soil

Project: S3240 Adrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-26282	24-26282	24-26282	24-26282	24-26282	24-26282	24-26282	24-26282	24-26282	24-26282	24-26282
Quotation No.: Q24-35340		Chemtest Sample ID.:	1852008	1852009	1852010	1852011	1852012	1852013	1852014	1852015	1852016	1852017	1852018
Order No.: S3240		Client Sample Ref.:	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10
		Client Sample ID.:	TSP10-09D	TSP10-10D	TSP10-11D	TSP10-12D	TSP10-13D	TSP10-14D	TSP10-15D	TSP10-16D	TSP10-17D	TSP10-18D	TSP10-19D
		Sample Location:	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Date Sampled:	13-Aug-2024	13-Aug-2024	13-Aug-2024	13-Aug-2024	13-Aug-2024	13-Aug-2024	13-Aug-2024	13-Aug-2024	13-Aug-2024	13-Aug-2024	13-Aug-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Moisture		N	2030	%	0.020	6.8	6.7	8.9	7.1	7.3	7.2	7.3	7.3
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones and Glass	Stones	Stones	Stones and Roots	Stones and Roots	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	2.9	< 2.0	5.6	6.4	5.7	5.3	6.4	5.7
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	22	8.1	21	3.7	< 1.0	5.8	28	4.7
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	39	22	31	4.6	< 2.0	15	30	20
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	35	21	28	< 3.0	< 3.0	7.4	24	5.7
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10	< 10	< 10	11	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	99	52	84	16	7.3	34	88	36
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	99	52	84	16	< 10	34	100	36
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	5.2	< 1.0	5.4	< 1.0	< 1.0	< 1.0	7.7	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	40	8.0	34	5.5	9.7	37	38	16
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	35	9.9	29	< 2.0	5.7	22	37	8.8
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	14	5.6	24	< 1.0	< 1.0	2.9	23	1.1
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	80	18	69	7.2	16	59	83	25
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	93	24	93	< 10	16	62	110	26
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	180	71	150	23	24	93	170	61
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	190	76	180	23	24	96	210	62
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: S3240 Adrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-26282	24-26282	24-26282	24-26282	24-26282	24-26282	24-26282	24-26282	24-26282	24-26282
Quotation No.: Q24-35340		Chemtest Sample ID.:	1852008	1852009	1852010	1852011	1852012	1852013	1852014	1852015		
Order No.: S3240		Client Sample Ref.:	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10
		Client Sample ID.:	TSP10-09D	TSP10-10D	TSP10-11D	TSP10-12D	TSP10-13D	TSP10-14D	TSP10-15D	TSP10-16D		
		Sample Location:	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Date Sampled:	13-Aug-2024	13-Aug-2024	13-Aug-2024	13-Aug-2024	13-Aug-2024	13-Aug-2024	13-Aug-2024	13-Aug-2024	13-Aug-2024	13-Aug-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.28	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.26
Phenanthrene		M	2800	mg/kg	0.10	0.24	0.89	0.62	0.47	2.5	0.41	0.67
Anthracene		M	2800	mg/kg	0.10	< 0.10	0.70	0.16	0.28	0.88	0.14	0.26
Fluoranthene		M	2800	mg/kg	0.10	0.76	3.8	1.5	1.7	6.6	1.0	3.0
Pyrene		M	2800	mg/kg	0.10	0.78	3.2	1.2	1.6	5.4	0.96	2.6
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.38	1.7	0.71	1.3	2.4	0.48	1.2
Chrysene		M	2800	mg/kg	0.10	0.41	1.7	0.73	1.5	2.4	0.46	1.2
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	2.1	1.1	1.8	3.1	0.72	1.8
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	0.81	0.42	1.2	1.0	0.24	0.68
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	1.8	0.72	1.4	2.8	0.67	1.6
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	1.3	0.65	1.4	1.8	0.47	1.2
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	0.37	< 0.10	0.95	0.32	< 0.10	0.29
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	1.3	0.64	1.4	1.7	0.64	1.1
Total Of 16 PAH's		N	2800	mg/kg	2.0	2.6	20	8.5	15	31	6.2	16

Results - Soil

Project: S3240 Adrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-26282	24-26282	24-26282	24-26282
Quotation No.: Q24-35340		Chemtest Sample ID.:	1852016	1852017	1852018	1852019
Order No.: S3240		Client Sample Ref.:	TSP10	TSP10	TSP10	TSP10
		Client Sample ID.:	TSP10-17D	TSP10-18D	TSP10-19D	TSP10-20D
		Sample Location:	TSP10	TSP10	TSP10	TSP10
		Sample Type:	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00
		Bottom Depth (m):	0.00	0.00	0.00	0.00
		Date Sampled:	13-Aug-2024	13-Aug-2024	13-Aug-2024	13-Aug-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
Moisture		N	2030	%	0.020	6.8
Soil Colour		N	2040		N/A	Brown
Other Material		N	2040		N/A	Stones
Soil Texture		N	2040		N/A	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	6.6
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	29
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	30
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	25
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	19
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	91
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	110
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	11
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	31
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	38
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	43
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	80
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	120
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	170
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	230
Benzene		M	2760	µg/kg	1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0

Results - Soil

Project: S3240 Adrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-26282	24-26282	24-26282	24-26282
Quotation No.: Q24-35340		Chemtest Sample ID.:	1852016	1852017	1852018	1852019
Order No.: S3240		Client Sample Ref.:	TSP10	TSP10	TSP10	TSP10
		Client Sample ID.:	TSP10-17D	TSP10-18D	TSP10-19D	TSP10-20D
		Sample Location:	TSP10	TSP10	TSP10	TSP10
		Sample Type:	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00
		Bottom Depth (m):	0.00	0.00	0.00	0.00
		Date Sampled:	13-Aug-2024	13-Aug-2024	13-Aug-2024	13-Aug-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
Naphthalene		M	2800	mg/kg	0.10	0.17
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.51
Anthracene		M	2800	mg/kg	0.10	0.18
Fluoranthene		M	2800	mg/kg	0.10	1.0
Pyrene		M	2800	mg/kg	0.10	0.99
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.65
Chrysene		M	2800	mg/kg	0.10	0.56
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.1
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.45
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.0
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.73
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.22
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.69
Total Of 16 PAH's		N	2800	mg/kg	2.0	8.2

Test Methods

SOP	Title	Parameters Included	Method summary	Water Accred.
2030	Moisture and Stone Content of Soils (Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description (Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35–C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35–C40	Acetone/Heptane extraction / GCxGC FID detection	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics. (cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7, >C7–C8, >C8–C10 Aromatics: >C5–C7, >C7–C8, >C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenzo[a,h]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request .

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

All Asbestos testing is performed at the indicated laboratory .

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

Sample Deviation Codes

-
- A - Date of sampling not supplied
 - B - Sample age exceeds stability time (sampling to extraction)
 - C - Sample not received in appropriate containers
 - D - Broken Container
 - E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

All water samples will be retained for 14 days from the date of receipt.

Charges may apply to extended sample storage.

Water Sample Category Key for Accreditation

-
- DW - Drinking Water
 - GW - Ground Water
 - LE - Land Leachate
 - NA - Not Applicable

Report Information

PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com



Chemtest
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.: 24-26904-1

Initial Date of Issue: 23-Aug-2024

Re-Issue Details:

Client Sanctus Limited

Client Address: 1 Olympus Park Business Centre
Quedgeley
Gloucester
Gloucestershire
GL2 4DH

Contact(s): Labs

Project S3240 Adrossan North Shore

Quotation No.: Q24-35340

Date Received: 21-Aug-2024

Order No.: S3240

Date Instructed: 21-Aug-2024

No. of Samples: 20

Turnaround (Wkdays): 3

Results Due: 23-Aug-2024

Date Approved: 23-Aug-2024

Approved By:



Details: [Redacted] Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: S3240 Adrossan North Shore

Client: Sanctus Limited	Chemtest Job No.:					24-26904	24-26904	24-26904	24-26904	24-26904	24-26904	24-26904	24-26904
Quotation No.: Q24-35340	Chemtest Sample ID.:					1854606	1854607	1854608	1854609	1854610	1854611	1854612	1854613
Order No.: S3240	Client Sample Ref.:					TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10
	Client Sample ID.:					TSP10-01F	TSP10-02F	TSP10-03F	TSP10-04F	TSP10-05F	TSP10-06F	TSP10-07F	TSP10-08F
	Sample Location:					TSP-10	TSP-10	TSP-10	TSP-10	TSP-10	TSP-10	TSP-10	TSP-10
	Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):					1.3	1.35	1.45	1.2	1.3	1.45	1.35	1.5
	Bottom Depth (m):					1.3	1.35	1.45	1.2	1.3	1.45	1.35	1.5
	Date Sampled:					20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Moisture		N	2030	%	0.020	7.9	9.1	6.3	8.6	7.7	9.2	8.2	9.3
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones and Brick	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	17	20	9.8	7.4	6.0	5.5	13	7.8
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	55	71	43	31	25	24	40	25
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	54	68	50	34	25	25	39	25
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10	< 10	< 10	< 10	10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	130	160	100	73	57	55	93	57
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	130	160	100	73	57	55	93	67
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	4.6	2.8	< 1.0	< 1.0	< 1.0	< 1.0	2.3	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	26	26	16	5.9	5.7	6.8	24	6.3
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	26	30	17	8.8	16	14	34	12
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	31	25	14	8.7	12	11	16	12
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	57	59	33	15	22	21	60	18
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	88	84	47	23	34	32	76	31
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	180	220	140	88	79	76	150	76
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	220	240	150	97	92	87	170	98
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: S3240 Adrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-26904	24-26904	24-26904	24-26904	24-26904	24-26904	24-26904	24-26904	24-26904	24-26904
Quotation No.: Q24-35340		Chemtest Sample ID.:	1854606	1854607	1854608	1854609	1854610	1854611	1854612	1854613		
Order No.: S3240		Client Sample Ref.:	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10		
		Client Sample ID.:	TSP10-01F	TSP10-02F	TSP10-03F	TSP10-04F	TSP10-05F	TSP10-06F	TSP10-07F	TSP10-08F		
		Sample Location:	TSP-10	TSP-10	TSP-10	TSP-10	TSP-10	TSP-10	TSP-10	TSP-10		
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):	1.3	1.35	1.45	1.2	1.3	1.45	1.35	1.5		
		Bottom Depth (m):	1.3	1.35	1.45	1.2	1.3	1.45	1.35	1.5		
		Date Sampled:	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024		
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.31	0.48	< 0.10	0.31	< 0.10	0.59	0.38
Anthracene		M	2800	mg/kg	0.10	0.16	0.35	< 0.10	0.16	< 0.10	0.26	0.16
Fluoranthene		M	2800	mg/kg	0.10	0.94	2.1	1.2	1.2	1.3	1.8	1.8
Pyrene		M	2800	mg/kg	0.10	0.91	2.0	1.2	1.1	1.2	1.7	1.7
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.52	1.8	0.60	0.64	0.61	0.92	0.83
Chrysene		M	2800	mg/kg	0.10	0.56	1.6	0.70	0.63	0.68	0.93	0.96
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.0	2.5	1.1	1.4	1.1	1.5	1.7
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.34	1.9	0.38	0.43	0.43	0.64	0.50
Benzo[a]pyrene		M	2800	mg/kg	0.10	0.79	2.1	0.99	1.2	0.96	1.2	1.5
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.68	2.2	0.80	0.86	0.73	1.0	1.1
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	1.4	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.65	2.2	0.71	1.0	0.92	0.98	1.1
Total Of 16 PAH's		N	2800	mg/kg	2.0	6.9	21	7.7	8.9	7.9	12	12

Results - Soil

Project: S3240 Adrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-26904	24-26904	24-26904	24-26904	24-26904	24-26904	24-26904	24-26904	24-26904	24-26904
Quotation No.: Q24-35340		Chemtest Sample ID.:	1854614	1854615	1854616	1854617	1854618	1854619	1854620	1854621		
Order No.: S3240		Client Sample Ref.:	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10
		Client Sample ID.:	TSP10-09F	TSP10-10F	TSP10-11F	TSP10-12F	TSP10-13F	TSP10-14F	TSP10-15F	TSP10-16F		
		Sample Location:	TSP-10	TSP-10	TSP-10	TSP-10	TSP-10	TSP-10	TSP-10	TSP-10		
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):	1.7	1.6	1.7	1.75	1.8	1.75	1.6	1.75		
		Bottom Depth (m):	1.7	1.6	1.7	1.75	1.8	1.75	1.6	1.75		
		Date Sampled:	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024		
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	8.5	9.1	9.5	9.2	8.0	9.0	9.7
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones and Brick	None	Stones and Roots	Stones	Stones and Roots	Stones and Brick	Stones and Brick
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	0.12	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	1.8	3.4	< 1.0	< 1.0	< 1.0	< 1.0	7.4
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	37	37	22	< 2.0	< 2.0	2.2	45
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	34	18	7.2	< 3.0	< 3.0	< 3.0	31
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	74	61	29	< 5.0	< 5.0	< 5.0	86
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	74	61	29	< 10	< 10	< 10	86
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	7.1	8.8	17	9.5	< 2.0	4.3	4.6
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	19	25	29	11	< 2.0	6.4	20
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	46	48	27	1.7	< 1.0	< 1.0	87
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	26	34	47	20	< 5.0	11	25
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	73	82	73	22	< 10	11	110
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	100	94	76	25	< 10	15	73
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	150	140	100	27	< 10	15	160
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: S3240 Adrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-26904	24-26904	24-26904	24-26904	24-26904	24-26904	24-26904	24-26904	24-26904	24-26904
Quotation No.: Q24-35340		Chemtest Sample ID.:	1854614	1854615	1854616	1854617	1854618	1854619	1854620	1854621		
Order No.: S3240		Client Sample Ref.:	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10	TSP10		
		Client Sample ID.:	TSP10-09F	TSP10-10F	TSP10-11F	TSP10-12F	TSP10-13F	TSP10-14F	TSP10-15F	TSP10-16F		
		Sample Location:	TSP-10	TSP-10	TSP-10	TSP-10	TSP-10	TSP-10	TSP-10	TSP-10		
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):	1.7	1.6	1.7	1.75	1.8	1.75	1.6	1.75		
		Bottom Depth (m):	1.7	1.6	1.7	1.75	1.8	1.75	1.6	1.75		
		Date Sampled:	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024		
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.38	0.31	0.66	0.32	0.88	1.0	0.43
Anthracene		M	2800	mg/kg	0.10	< 0.10	0.13	0.27	0.16	0.38	0.41	0.19
Fluoranthene		M	2800	mg/kg	0.10	1.2	0.99	2.3	1.3	4.8	3.3	1.3
Pyrene		M	2800	mg/kg	0.10	1.1	0.93	2.0	1.2	4.1	2.8	1.3
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.62	0.52	1.1	0.68	2.3	1.6	0.73
Chrysene		M	2800	mg/kg	0.10	0.64	0.53	1.0	0.62	2.2	1.5	0.76
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.2	1.1	1.8	1.2	3.3	2.4	1.3
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.48	0.35	0.56	0.46	1.1	0.86	0.42
Benzo[a]pyrene		M	2800	mg/kg	0.10	0.94	0.75	1.4	1.2	2.6	2.0	1.1
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.90	0.71	1.1	1.1	1.9	1.5	0.86
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.37	0.38	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.86	0.70	1.1	1.1	1.9	1.5	0.95
Total Of 16 PAH's		N	2800	mg/kg	2.0	8.3	7.0	13	9.3	26	19	9.3

Results - Soil

Project: S3240 Adrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-26904	24-26904	24-26904	24-26904
Quotation No.: Q24-35340		Chemtest Sample ID.:	1854622	1854623	1854624	1854625
Order No.: S3240		Client Sample Ref.:	TSP10	TSP10	TSP10	TSP10
		Client Sample ID.:	TSP10-17F	TSP10-18F	TSP10-19F	TSP10-20F
		Sample Location:	TSP-10	TSP-10	TSP-10	TSP-10
		Sample Type:	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	1.5	1.45	1.6	1.6
		Bottom Depth (m):	1.5	1.45	1.6	1.6
		Date Sampled:	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
Moisture		N	2030	%	0.020	9.0
Soil Colour		N	2040		N/A	Brown
Other Material		N	2040		N/A	Stones and Roots
Soil Texture		N	2040		N/A	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	< 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	25
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	9.3
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	35
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	6.9
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	10
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	8.2
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	17
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	< 10
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	52
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	60
Benzene		M	2760	µg/kg	1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0

Results - Soil

Project: S3240 Adrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-26904	24-26904	24-26904	24-26904
Quotation No.: Q24-35340		Chemtest Sample ID.:	1854622	1854623	1854624	1854625
Order No.: S3240		Client Sample Ref.:	TSP10	TSP10	TSP10	TSP10
		Client Sample ID.:	TSP10-17F	TSP10-18F	TSP10-19F	TSP10-20F
		Sample Location:	TSP-10	TSP-10	TSP-10	TSP-10
		Sample Type:	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	1.5	1.45	1.6	1.6
		Bottom Depth (m):	1.5	1.45	1.6	1.6
		Date Sampled:	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
Naphthalene		M	2800	mg/kg	0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.91
Anthracene		M	2800	mg/kg	0.10	0.32
Fluoranthene		M	2800	mg/kg	0.10	2.4
Pyrene		M	2800	mg/kg	0.10	2.1
Benzo[a]anthracene		M	2800	mg/kg	0.10	1.3
Chrysene		M	2800	mg/kg	0.10	1.2
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	2.0
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.71
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.7
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	1.3
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	1.3
Total Of 16 PAH's		N	2800	mg/kg	2.0	15

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8–C10 Aromatics: >C5–C7,>C7–C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenzo[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request.

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

All Asbestos testing is performed at the indicated laboratory.

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

Sample Deviation Codes

-
- A - Date of sampling not supplied
 - B - Sample age exceeds stability time (sampling to extraction)
 - C - Sample not received in appropriate containers
 - D - Broken Container
 - E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

All water samples will be retained for 14 days from the date of receipt.

Charges may apply to extended sample storage.

Water Sample Category Key for Accreditation

-
- DW - Drinking Water
 - GW - Ground Water
 - LE - Land Leachate
 - NA - Not Applicable

Report Information

PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com



Final Report

Report No.: 24-27049-1

Initial Date of Issue: 02-Sep-2024

Re-Issue Details:

Client Sanctus Limited

Client Address: 1 Olympus Park Business Centre
Quedgeley
Gloucester
Gloucestershire
GL2 4DH

Contact(s): Labs

Project S3240 Ardrossan North Shore

Quotation No.: Date Received: 22-Aug-2024

Order No.: S3240 Date Instructed: 22-Aug-2024

No. of Samples: 1

Turnaround (Wkdays): 5 Results Due: 29-Aug-2024

Date Approved: 31-Aug-2024

Approved By:

Details: [Redacted], Specialist Chemist

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:		24-27049		
Quotation No.:		Chemtest Sample ID.:		1855031		
		Client Sample ID.:		Retest sample 1852006		
		Sample Location:		TSP10-07E		
		Sample Type:		SOIL		
		Date Sampled:		13-Aug-2024		
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
Moisture		N	2030	%	0.020	6.6
Aliphatic VPH >C5-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	U	2690	mg/kg	2.00	5.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	U	2690	mg/kg	1.00	9.2
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	U	2690	mg/kg	2.00	15
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	U	2690	mg/kg	3.00	15
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	U	2690	mg/kg	5.00	44
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	44
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	4.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	21
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	16
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	5.2
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	40
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	46
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	84
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	89
Benzene		U	2760	µg/kg	1.0	< 1.0
Toluene		U	2760	µg/kg	1.0	< 1.0
Ethylbenzene		U	2760	µg/kg	1.0	< 1.0
m & p-Xylene		U	2760	µg/kg	1.0	< 1.0
o-Xylene		U	2760	µg/kg	1.0	< 1.0
Naphthalene		U	2800	mg/kg	0.10	0.13
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10
Acenaphthene		U	2800	mg/kg	0.10	< 0.10
Fluorene		U	2800	mg/kg	0.10	< 0.10
Phenanthrene		U	2800	mg/kg	0.10	0.48
Anthracene		U	2800	mg/kg	0.10	0.17

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:		24-27049	
Quotation No.:		Chemtest Sample ID.:		1855031	
		Client Sample ID.:		Retest sample 1852006	
		Sample Location:		TSP10-07E	
		Sample Type:		SOIL	
		Date Sampled:		13-Aug-2024	
Determinand	HWOL Code	Accred.	SOP	Units	LOD
Fluoranthene		U	2800	mg/kg	0.10
Pyrene		U	2800	mg/kg	0.10
Benzo[a]anthracene		U	2800	mg/kg	0.10
Chrysene		U	2800	mg/kg	0.10
Benzo[b]fluoranthene		U	2800	mg/kg	0.10
Benzo[k]fluoranthene		U	2800	mg/kg	0.10
Benzo[a]pyrene		U	2800	mg/kg	0.10
Indeno(1,2,3-c,d)Pyrene		U	2800	mg/kg	0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10
Benzo[g,h,i]perylene		U	2800	mg/kg	0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8–C10 Aromatics: >C5–C7,>C7–C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request.

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

All Asbestos testing is performed at the indicated laboratory.

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

Sample Deviation Codes

-
- A - Date of sampling not supplied
 - B - Sample age exceeds stability time (sampling to extraction)
 - C - Sample not received in appropriate containers
 - D - Broken Container
 - E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

All water samples will be retained for 14 days from the date of receipt.

Charges may apply to extended sample storage.

Water Sample Category Key for Accreditation

-
- DW - Drinking Water
 - GW - Ground Water
 - LE - Land Leachate
 - NA - Not Applicable

Report Information

PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

**Treated Stockpile Reuse Validation Form 009 – TSP13****Stockpile ID**

Stockpile ID: TSP13

Material Volume:

3,700 m³

Validation Samples Included

37 No.

Tested Location: Treatment Area 02

Stockpile Creation Date: 02/07/2024

Release Date: TBC

Sampling Data (3No. full rounds for validation to release)

Passing Round 1 (Overall Sample Round 2 of 4)	Sample Date: 15/08/2024	Report Number & Date: 24-26562 – 22/08/2024	Lab: Eurofins
Passing Round 2 (Overall Sample Round 3 of 4)	Sample Date: 20/08/2024	Report Number & Date: 24-26903 – 26/08/2024	Lab: Eurofins
Passing Round 3 (Overall Sample Round 4 of 4)	Sample Date: 29/08/2024	Report Number & Date: 24-28143 – 05/09/2024	Lab: Eurofins

Sampling Data**Passing Round 1**

Report Number: 24-26562

Report Date: 22/08/2024

Sample ID (Sample Names): TSP13-01A → TSP13-37A

Report ID (Lab): Eurofins

Comments:

Test Results: PASS / FAIL

Overall, 2nd round of sampling undertaken from the treated Stockpile. No exceedances seen throughout. Average Total TPH = 195 mg/kg. Sanctus deem this round of sampling as chemically suitable for reuse.

Passing Round 2

Report Number: 24-26903

Report Date: 26/08/2024

Sample ID (Sample Names): TSP13-01B → TSP13-37B

Report ID (Lab): Eurofins

Comments:

Test Results: PASS / FAIL

Overall, 3rd round of sampling undertaken from the treated Stockpile. No exceedances seen throughout the final accepted data. Average Total TPH = 130 mg/kg. Sanctus deem this final round of sampling as chemically suitable for reuse.

Passing Round 3

Report Number: 24-28143

Report Date: 05/09/2024

Sample ID (Sample Names): TSP13-01C → TSP13-37C

Report ID (Lab): Eurofins

Comments:

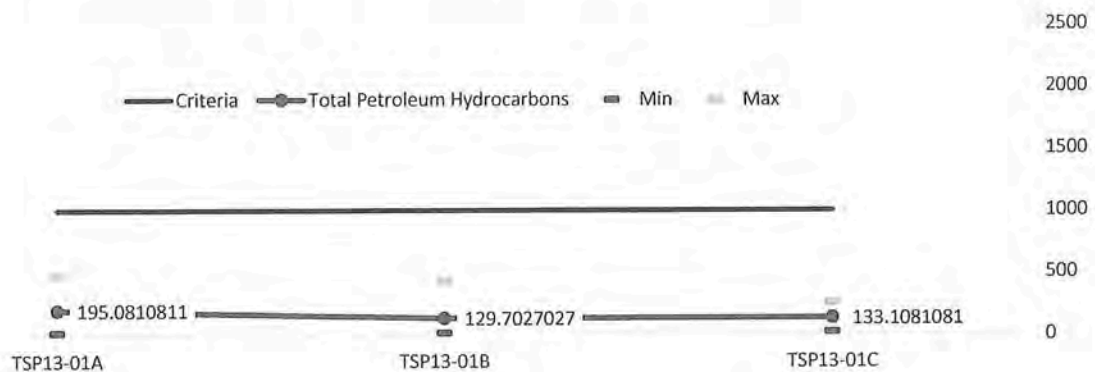
Test Results: PASS / FAIL

Overall, 4th round of sampling undertaken from the treated Stockpile. Average Total TPH = 133 mg/kg. No exceedances seen throughout. Sanctus deem this round of sampling as chemically suitable for reuse.

Data Review

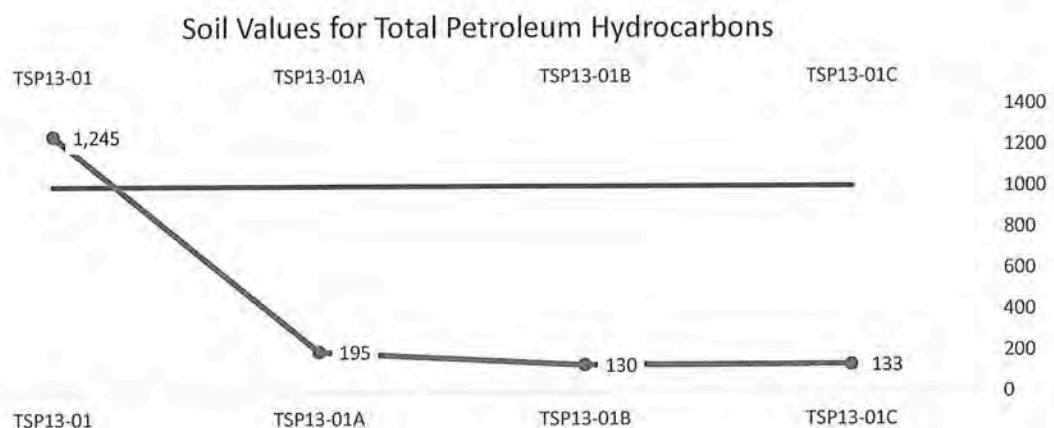
Data Trend for Total TPH levels:

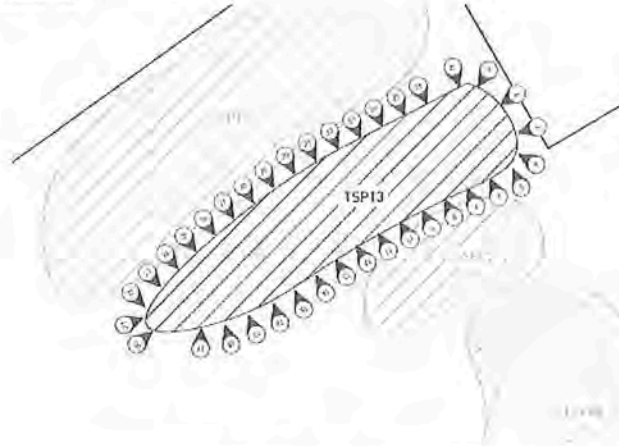
Min & Max Soil Values for Total Petroleum Hydrocarbons



Additional Trendline Data – long term review:

Further to the above spread of data for the final 3 No. rounds, the total TPH levels from July 2024, for the treated stockpile, are shown below. The chart shows a significant decrease in the averaged total TPH levels, and the final result presents a reduction of total TPH level of 89% when compared to the highest material's contents (1,245 mg/kg (2nd July 2024), compared to 133 mg/kg (29th August 2024)):



Treated Stockpile Sample Plan:**Sampling Strategy:**

All samples have been taken in compliance with ISO BS 18400, including the following notes:

- Stainless steel/washable sampling devices (trowels, buckets, etc) will be employed for the gathering of the soils samples and cleaned between each sample location so that consecutive samples are not cross-contaminated.
- The sample positions shown above indicate the position relative to the base boundary of the stockpile. All samples are taken from a within the body of the Stockpile, retrieved by an excavator. This is done as a safe sample retrieval option as well as to target an internal representative sample location mid-way from the edge to the centre of the Stockpile, as discussed under BS ISO 18400-104:2018 (Sampling Strategies), subsection 9.
- The subsequent sample depths were between 1-2 m below the Stockpile's surface and a minimum of 4No. characteristic subsamples were taken from an area of approximately 1m² of the newly exposed material. The 4No. or more sub-locations were chosen in a X-pattern and the combined testing soil material is described as a composite sample, following a systematic stratified random sub-sampling location of a 3-dimensional source.
- The mechanically retrieved material is then sub-sampled into the required sampling jars/pots by the Sanctus Engineer as a representative sample from the numbered location.



Ardrossan Site Code: S3240

Sanctus Declaration:

We confirm that:

1. The material that this form relates to, has been sampled representatively, as discussed above and in accordance with the client's requirements (Ardrossan Remediation Specification Rev E).
2. The material has been proven to be suitable for REUSE on site as there are 3 No. consecutive rounds, with a statistical insignificant number of exceedances of the accepted reuse criteria. No exceedances are seen within the all three monitoring rounds and each round's average for the total TPH levels have been significantly below the 1,000 mg/kg threshold level.
3. The laboratory analysis results are representative of the materials investigated.
4. The material released will also be recorded spatially at its reuse location.

NAME: [REDACTED]
POSITION: Senior Environmental Engineer
DATE: 07/10/2024
SIGNED:

X

Senior Environmental Engineer
Signed by: 7ee90afd-5b10-4b4f-a839-775383c68d48

Record of reuse

For Sanctus Use Only:

Approved for reuse:

Beginning of Movement from stockpile:

End of Movement into site:



TSP09
(Southern)

TSP09
(Northern)

Legend:

— Site Boundary

▨ Treated Stockpile Location

T ROAD

TSP10

TSP12

TSP13

TSP05

TSP06

TSP07

Site Overview:

Area of Interest



Scale: 1:12,500

6m 5m 10m 20m



Sanctus House, 1 Olympus Park Business Centre,
Quedgeley, Glos, GL2 4DH
T: 01453 828222
E: info@sanctusltd.co.uk www.sanctusltd.com

Drawing Notes:
Based on client supplied DWG -
ARDROSSAN 2D produced by Aird Group
23/03/2020. All locations are approximate.
Must be printed in colour.

Site Address:
Raylight Place
Ardrassan
North Ayrshire
Scotland

Rev.	Description	Date
A	First Issue	07/10/2024

APPROVED

Project Name:
North Shore, Ardrassan

Client:
North Ayrshire Council

Drawing Title:
Treated Stockpile 13 Sample Locations

Contract No:
S3240

Drawing No:
D3240/104

Scale @ A3:
1:500

Drawn By:

QC Check By:

Approved By:



Chemtest
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Amended Report

Report No.:	24-26562-2		
Initial Date of Issue:	22-Aug-2024	Date of Re-Issue:	23-Aug-2024
Re-Issue Details:	This report has been revised and directly supersedes 24-26562-1 in its entirety		
Client	Sanctus Limited		
Client Address:	1 Olympus Park Business Centre Quedgeley Gloucester Gloucestershire GL2 4DH		
Contact(s):	Labs		
Project	S3240 Ardrossan North Shore		
Quotation No.:	Q24-35340	Date Received:	19-Aug-2024
Order No.:	S3240	Date Instructed:	19-Aug-2024
No. of Samples:	37		
Turnaround (Wkdays):	4	Results Due:	22-Aug-2024
Date Approved:	22-Aug-2024		
Approved By:			

Details:  Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-26562	24-26562	24-26562	24-26562	24-26562	24-26562	24-26562	24-26562	24-26562	24-26562
Quotation No.: Q24-35340		Chemtest Sample ID.:	1853072	1853073	1853074	1853075	1853076	1853077	1853078	1853079		
Order No.: S3240		Client Sample Ref.:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13
		Client Sample ID.:	TSP13-01A	TSP13-02A	TSP13-03A	TSP13-04A	TSP13-05A	TSP13-06A	TSP13-07A	TSP13-08A		
		Sample Location:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Date Sampled:	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	9.7	9.2	9.9	9.1	1.2	11	1.0
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones and Roots	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	5.4	2.6	4.9	4.3	3.1	4.8	2.9
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	27	14	14	11	16	17	8.2
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	32	17	23	5.7	14	32	18
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	20	8.7	10	< 3.0	5.3	12	< 3.0
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	84	43	53	24	39	67	31
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	84	43	53	24	39	67	31
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	9.7	< 1.0	1.9	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	45	14	15	6.6	5.0	18	23
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	22	4.9	4.8	6.9	2.5	22	14
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	2.7	< 1.0	< 1.0	< 1.0	1.2	7.3	2.0
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	77	20	22	13	7.5	40	41
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	80	20	22	13	< 10	47	43
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	160	63	75	37	46	110	110
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	160	63	75	37	47	110	110
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-26562	24-26562	24-26562	24-26562	24-26562	24-26562	24-26562	24-26562	24-26562	24-26562
Quotation No.: Q24-35340		Chemtest Sample ID.:	1853072	1853073	1853074	1853075	1853076	1853077	1853078	1853079		
Order No.: S3240		Client Sample Ref.:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13
		Client Sample ID.:	TSP13-01A	TSP13-02A	TSP13-03A	TSP13-04A	TSP13-05A	TSP13-06A	TSP13-07A	TSP13-08A		
		Sample Location:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Date Sampled:	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.31	0.32
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.15
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.12
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.49	0.49	0.46	0.33	0.55	0.48	0.76
Anthracene		M	2800	mg/kg	0.10	0.21	< 0.10	0.18	< 0.10	0.31	0.18	0.35
Fluoranthene		M	2800	mg/kg	0.10	0.92	1.0	1.2	0.76	1.5	1.7	3.7
Pyrene		M	2800	mg/kg	0.10	0.83	0.85	1.2	0.70	1.3	1.5	3.1
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.51	0.47	0.64	0.38	0.78	0.90	2.0
Chrysene		M	2800	mg/kg	0.10	0.50	0.51	0.60	0.36	0.82	0.93	1.9
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	0.83	0.77	0.95	0.67	1.4	1.6	3.0
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.29	0.27	0.34	0.25	0.50	0.59	1.0
Benzo[a]pyrene		M	2800	mg/kg	0.10	0.66	0.62	0.84	0.55	1.2	1.3	2.4
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.54	0.51	0.71	0.46	0.83	1.2	1.8
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	0.19	< 0.10	< 0.10	0.27	0.32
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.50	0.53	0.63	0.46	0.78	1.2	1.6
Total Of 16 PAH's		N	2800	mg/kg	2.0	6.3	6.0	7.9	4.9	10	12	23

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-26562	24-26562	24-26562	24-26562	24-26562	24-26562	24-26562	24-26562	24-26562	24-26562
Quotation No.: Q24-35340		Chemtest Sample ID.:	1853080	1853081	1853082	1853083	1853084	1853085	1853086	1853087		
Order No.: S3240		Client Sample Ref.:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13
		Client Sample ID.:	TSP13-09A	TSP13-10A	TSP13-11A	TSP13-12A	TSP13-13A	TSP13-14A	TSP13-15A	TSP13-16A		
		Sample Location:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Date Sampled:	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	10	9.9	9.2	9.7	9.0	9.7	9.8
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones and Roots	Stones	Stones and Roots	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	3.0	3.6	2.9	2.2	3.2	3.2	3.1
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	15	12	5.5	7.3	19	23	22
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	36	23	< 2.0	< 2.0	44	49	45
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	29	5.1	< 3.0	< 3.0	100	80	66
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10	20	16	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	83	44	9.0	12	170	150	97
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	83	44	< 10	12	190	170	97
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	2.1	< 1.0	< 1.0	< 1.0	3.9	5.5	4.2
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	28	15	3.9	20	30	47	42
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	21	3.3	< 2.0	37	47	80	110
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	1.1	< 1.0	< 1.0	1.3	26	20	31
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	51	19	5.6	57	82	130	160
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	52	19	< 10	58	110	150	180
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	130	62	15	69	250	290	310
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	140	62	15	70	300	320	280
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				24-26562	24-26562	24-26562	24-26562	24-26562	24-26562	24-26562	24-26562
Quotation No.: Q24-35340		Chemtest Sample ID.:				1853080	1853081	1853082	1853083	1853084	1853085	1853086	1853087
Order No.: S3240		Client Sample Ref.:				TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13
		Client Sample ID.:				TSP13-09A	TSP13-10A	TSP13-11A	TSP13-12A	TSP13-13A	TSP13-14A	TSP13-15A	TSP13-16A
		Sample Location:				TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Date Sampled:				15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Naphthalene		M	2800	mg/kg	0.10	0.35	0.30	0.23	0.31	< 0.10	0.30	< 0.10	0.36
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	2.2	0.48	0.36	0.38	< 0.10	0.86	< 0.10	0.36
Anthracene		M	2800	mg/kg	0.10	0.82	0.18	0.21	0.18	< 0.10	0.31	< 0.10	0.16
Fluoranthene		M	2800	mg/kg	0.10	5.9	1.6	1.4	1.4	0.19	2.1	0.24	1.3
Pyrene		M	2800	mg/kg	0.10	4.6	1.4	1.4	1.3	0.19	1.9	0.24	1.3
Benzo[a]anthracene		M	2800	mg/kg	0.10	2.5	0.83	0.83	0.78	0.11	1.0	0.13	0.72
Chrysene		M	2800	mg/kg	0.10	2.3	0.85	0.85	0.84	0.11	1.0	0.14	0.73
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	3.5	1.4	1.6	1.4	0.20	1.8	0.25	1.4
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	1.2	0.43	0.58	0.44	< 0.10	0.55	< 0.10	0.45
Benzo[a]pyrene		M	2800	mg/kg	0.10	3.0	1.2	1.5	1.2	0.16	1.3	0.19	1.2
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	2.1	1.1	1.1	1.0	0.14	1.0	0.16	0.95
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.39	0.20	< 0.10	0.19	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	1.9	1.1	1.2	1.0	0.16	1.1	0.16	0.95
Total Of 16 PAH's		N	2800	mg/kg	2.0	31	11	11	10	< 2.0	13	< 2.0	9.9

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-26562	24-26562	24-26562	24-26562	24-26562	24-26562	24-26562	24-26562	24-26562	24-26562
Quotation No.: Q24-35340		Chemtest Sample ID.:	1853088	1853089	1853090	1853091	1853092	1853093	1853094	1853095		
Order No.: S3240		Client Sample Ref.:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13
		Client Sample ID.:	TSP13-17A	TSP13-18A	TSP13-19A	TSP13-20A	TSP13-21A	TSP13-22A	TSP13-23A	TSP13-24A		
		Sample Location:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13		
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Bottom Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Date Sampled:	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024		
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	9.0	8.4	10	9.8	10	9.9	11
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Glass and Stones	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	2.3	3.2	3.6	4.1	4.3	2.9	3.1
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	17	15	14	13	30	20	24
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	38	39	16	29	62	46	77
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	39	24	9.0	18	29	28	47
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	96	82	43	65	130	97	150
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	96	82	43	65	130	97	150
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	4.9	4.7	8.0	4.5	8.5	4.5	7.5
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	31	27	96	24	48	27	50
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	77	84	140	60	140	99	160
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	10	21	47	9.1	43	18	49
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	110	120	250	88	200	130	220
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	120	140	290	98	240	150	270
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	210	200	290	150	330	230	370
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	220	220	340	160	370	240	420
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				24-26562	24-26562	24-26562	24-26562	24-26562	24-26562	24-26562	24-26562
Quotation No.: Q24-35340		Chemtest Sample ID.:				1853088	1853089	1853090	1853091	1853092	1853093	1853094	1853095
Order No.: S3240		Client Sample Ref.:				TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13
		Client Sample ID.:				TSP13-17A	TSP13-18A	TSP13-19A	TSP13-20A	TSP13-21A	TSP13-22A	TSP13-23A	TSP13-24A
		Sample Location:				TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Date Sampled:				15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Naphthalene		M	2800	mg/kg	0.10	0.33	0.41	0.30	0.40	0.33	0.35	0.39	0.48
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.13	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.15	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.14	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.39	1.3	0.56	0.78	0.38	0.51	0.47	0.57
Anthracene		M	2800	mg/kg	0.10	0.23	0.49	0.32	0.25	0.22	0.23	0.22	0.24
Fluoranthene		M	2800	mg/kg	0.10	1.4	2.9	1.9	1.9	1.1	1.5	1.5	1.7
Pyrene		M	2800	mg/kg	0.10	1.2	2.5	1.7	1.6	1.1	1.5	1.3	1.4
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.75	1.4	1.3	0.92	0.65	1.0	0.81	0.83
Chrysene		M	2800	mg/kg	0.10	0.73	1.3	1.2	0.91	0.64	1.0	0.80	0.89
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.3	2.2	2.1	1.6	1.3	1.7	1.5	1.6
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.44	0.86	0.67	0.54	0.43	0.75	0.50	0.55
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.1	1.9	1.7	1.2	1.0	1.6	1.1	1.4
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.81	1.3	1.2	1.1	0.81	1.4	0.81	1.0
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	0.29	0.39	0.20	< 0.10	0.31	< 0.10	0.20
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.86	1.4	1.2	1.1	0.80	1.5	0.92	1.1
Total Of 16 PAH's		N	2800	mg/kg	2.0	9.5	18	15	13	8.8	13	10	12

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-26562	24-26562	24-26562	24-26562	24-26562	24-26562	24-26562	24-26562	24-26562	24-26562
Quotation No.: Q24-35340		Chemtest Sample ID.:	1853096	1853097	1853098	1853099	1853100	1853101	1853102	1853103		
Order No.: S3240		Client Sample Ref.:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13
		Client Sample ID.:	TSP13-25A	TSP13-26A	TSP13-27A	TSP13-28A	TSP13-29A	TSP13-30A	TSP13-31A	TSP13-32A		
		Sample Location:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Date Sampled:	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	10	10	10	10	9.9	11	10
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones and Wood	Stones	Stones and Brick	Stones and Brick	Stones and Brick	Stones and Brick	Stones and Roots
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	3.1	2.5	3.7	2.4	3.6	2.1	4.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	29	13	18	11	19	8.4	22
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	78	46	75	31	68	34	44
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	57	80	200	19	38	71	29
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	36	< 10	< 10	14	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	170	140	300	64	130	110	99
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	170	140	330	64	130	130	99
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	6.8	2.8	6.6	2.6	6.0	< 1.0	6.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	52	29	34	25	34	15	46
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	180	72	92	62	130	36	120
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	56	16	17	6.2	32	4.1	22
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	230	100	130	90	170	51	170
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	290	120	150	96	200	55	190
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	400	250	430	150	300	170	270
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	460	260	480	160	330	180	290
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-26562	24-26562	24-26562	24-26562	24-26562	24-26562	24-26562	24-26562	24-26562	24-26562
Quotation No.: Q24-35340		Chemtest Sample ID.:	1853096	1853097	1853098	1853099	1853100	1853101	1853102	1853103		
Order No.: S3240		Client Sample Ref.:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13
		Client Sample ID.:	TSP13-25A	TSP13-26A	TSP13-27A	TSP13-28A	TSP13-29A	TSP13-30A	TSP13-31A	TSP13-32A		
		Sample Location:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Date Sampled:	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Naphthalene		M	2800	mg/kg	0.10	0.33	0.33	0.29	0.27	0.31	0.27	0.35
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.50	0.44	0.28	0.46	0.45	0.74	0.27
Anthracene		M	2800	mg/kg	0.10	0.34	0.19	0.21	0.19	< 0.10	0.24	0.18
Fluoranthene		M	2800	mg/kg	0.10	1.4	1.5	0.96	1.6	1.3	2.1	0.79
Pyrene		M	2800	mg/kg	0.10	1.3	1.4	0.84	1.5	1.2	1.9	0.78
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.69	0.84	0.47	0.91	0.75	0.98	0.41
Chrysene		M	2800	mg/kg	0.10	0.71	0.86	0.52	0.92	0.78	0.94	0.40
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.2	1.5	1.0	1.6	1.3	1.6	0.79
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.41	0.55	0.41	0.53	0.43	0.53	0.26
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.1	1.3	0.80	1.3	1.0	1.5	0.60
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.84	1.0	0.72	1.1	0.89	1.2	0.57
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.24	< 0.10	< 0.10	0.23	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.88	0.99	0.70	1.1	0.89	1.1	0.60
Total Of 16 PAH's		N	2800	mg/kg	2.0	9.9	11	7.2	12	9.3	13	6.0

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-26562	24-26562	24-26562	24-26562	24-26562
Quotation No.: Q24-35340		Chemtest Sample ID.:	1853104	1853105	1853106	1853107	1853108
Order No.: S3240		Client Sample Ref.:	TSP13	TSP13	TSP13	TSP13	TSP13
		Client Sample ID.:	TSP13-33A	TSP13-34A	TSP13-35A	TSP13-36A	TSP13-37A
		Sample Location:	TSP13	TSP13	TSP13	TSP13	TSP13
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	0.00	0.00	0.00	0.00	0.00
		Date Sampled:	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Moisture		N	2030	%	0.020	11	10
Soil Colour		N	2040		N/A	Brown	Brown
Other Material		N	2040		N/A	Stones and Brick	Stones and Glass
Soil Texture		N	2040		N/A	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	3.6	2.8
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	4.2	5.3
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	30	25
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	24	25
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	62	59
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	62	59
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	17	16
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	14	17
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	4.7	2.4
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	31	34
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	35	36
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	92	92
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	97	95
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-26562	24-26562	24-26562	24-26562	24-26562
Quotation No.: Q24-35340		Chemtest Sample ID.:	1853104	1853105	1853106	1853107	1853108
Order No.: S3240		Client Sample Ref.:	TSP13	TSP13	TSP13	TSP13	TSP13
		Client Sample ID.:	TSP13-33A	TSP13-34A	TSP13-35A	TSP13-36A	TSP13-37A
		Sample Location:	TSP13	TSP13	TSP13	TSP13	TSP13
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	0.00	0.00	0.00	0.00	0.00
		Date Sampled:	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Naphthalene		M	2800	mg/kg	0.10	0.29	0.26
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.40	0.53
Anthracene		M	2800	mg/kg	0.10	0.21	0.22
Fluoranthene		M	2800	mg/kg	0.10	1.3	1.7
Pyrene		M	2800	mg/kg	0.10	1.2	1.5
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.67	0.85
Chrysene		M	2800	mg/kg	0.10	0.70	0.90
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.2	1.6
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.36	0.52
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.0	1.2
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.90	1.1
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	0.19
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.86	1.1
Total Of 16 PAH's		N	2800	mg/kg	2.0	9.1	12

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8–C10 Aromatics: >C5–C7,>C7–C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenzo[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request.

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

All Asbestos testing is performed at the indicated laboratory.

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

Sample Deviation Codes

-
- A - Date of sampling not supplied
 - B - Sample age exceeds stability time (sampling to extraction)
 - C - Sample not received in appropriate containers
 - D - Broken Container
 - E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

All water samples will be retained for 14 days from the date of receipt.

Charges may apply to extended sample storage.

Water Sample Category Key for Accreditation

-
- DW - Drinking Water
 - GW - Ground Water
 - LE - Land Leachate
 - NA - Not Applicable

Report Information

PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com



Chemtest
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.: 24-26903-1
Initial Date of Issue: 26-Aug-2024

Re-Issue Details:

Client: Sanctus Limited
Client Address: 1 Olympus Park Business Centre
Quedgeley
Gloucester
Gloucestershire
GL2 4DH

Contact(s): Labs

Project: Adrossan North Shore

Quotation No.: Q24-35340

Date Received: 21-Aug-2024

Order No.: S3240

Date Instructed: 21-Aug-2024

No. of Samples: 37

Turnaround (Wkdays): 3

Results Due: 23-Aug-2024

Date Approved: 26-Aug-2024

Approved By:

Details:  Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: Adrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903
Quotation No.: Q24-35340		Chemtest Sample ID.:	1854569	1854570	1854571	1854572	1854573	1854574	1854575	1854576		
Order No.: S3240		Client Sample Ref.:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13
		Client Sample ID.:	TSP13-01B	TSP13-02B	TSP13-03B	TSP13-04B	TSP13-05B	TSP13-06B	TSP13-07B	TSP13-08B		
		Sample Location:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13		
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):	1.7	1.75	1.6	1.75	1.6	1.75	1.55	1.7		
		Bottom Depth (m):	1.7	1.75	1.6	1.75	1.6	1.75	1.55	1.7		
		Date Sampled:	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024		
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	11	9.3	9.1	9.7	10	10	2.5
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones and Brick	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	10	4.1	11	2.8	13	13	< 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	26	20	35	18	35	44	12
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	26	19	27	16	27	31	9.4
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	63	44	74	38	76	87	22
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	63	44	74	38	76	87	22
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	5.9	2.4	7.1	< 1.0	7.6	7.4	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	36	20	51	19	30	38	8.0
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	75	53	110	51	91	110	16
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	11	6.8	25	7.0	19	30	1.7
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	120	75	160	70	130	160	24
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	130	82	190	77	150	190	26
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	180	120	240	110	210	240	46
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	190	130	260	120	220	270	48
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: Adrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903
Quotation No.: Q24-35340		Chemtest Sample ID.:	1854569	1854570	1854571	1854572	1854573	1854574	1854575	1854576		
Order No.: S3240		Client Sample Ref.:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13
		Client Sample ID.:	TSP13-01B	TSP13-02B	TSP13-03B	TSP13-04B	TSP13-05B	TSP13-06B	TSP13-07B	TSP13-08B		
		Sample Location:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13		
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):	1.7	1.75	1.6	1.75	1.6	1.75	1.55	1.7		
		Bottom Depth (m):	1.7	1.75	1.6	1.75	1.6	1.75	1.55	1.7		
		Date Sampled:	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024		
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.11	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.48	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.36	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.38	1.1	1.3	0.66	0.83	1.0	1.1
Anthracene		M	2800	mg/kg	0.10	0.19	0.32	0.47	0.24	0.26	0.32	0.33
Fluoranthene		M	2800	mg/kg	0.10	1.4	2.1	2.8	1.9	2.3	2.5	2.0
Pyrene		M	2800	mg/kg	0.10	1.3	1.8	2.4	1.6	2.0	2.1	1.6
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.70	0.93	1.4	0.81	1.0	0.93	0.98
Chrysene		M	2800	mg/kg	0.10	0.69	0.85	1.4	0.88	1.0	1.1	0.95
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.4	1.5	2.2	1.3	1.4	1.4	1.6
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.53	0.52	0.79	0.46	0.46	0.39	0.52
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.1	1.1	1.9	1.2	1.2	1.1	1.1
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.95	0.89	1.4	0.99	0.88	0.92	0.94
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	0.33	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.93	1.0	1.4	0.99	0.86	0.99	0.91
Total Of 16 PAH's		N	2800	mg/kg	2.0	9.6	12	18	11	12	14	12

Results - Soil

Project: Adrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903
Quotation No.: Q24-35340		Chemtest Sample ID.:	1854577	1854578	1854579	1854580	1854581	1854582	1854583	1854584		
Order No.: S3240		Client Sample Ref.:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13
		Client Sample ID.:	TSP13-09B	TSP13-10B	TSP13-11B	TSP13-12B	TSP13-13B	TSP13-14B	TSP13-15B	TSP13-16B		
		Sample Location:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13		
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):	1.7	1.55	1.7	1.6	1.7	1.45	1.6	1.75		
		Bottom Depth (m):	1.7	1.55	1.7	1.6	1.7	1.45	1.6	1.75		
		Date Sampled:	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024		
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	13	15	13	14	6.5	12	15
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones and Roots	Stones and Roots	Roots and Stones	Stones and Roots	Roots and Stones	Stones and Roots
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	5.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	34	26	15	6.0	27	16	24
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	23	18	4.8	9.3	25	12	13
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	62	45	19	15	52	28	37
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	62	45	19	15	52	28	37
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	25	11	13	4.5	11	5.9	18
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	16	10	15	5.6	17	5.1	30
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	40	9.6	1.4	1.2	6.1	1.6	13
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	41	21	28	10	28	11	49
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	81	31	30	11	34	13	61
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	100	66	48	25	80	39	86
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	140	75	49	27	86	41	99
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: Adrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903
Quotation No.: Q24-35340		Chemtest Sample ID.:	1854577	1854578	1854579	1854580	1854581	1854582	1854583	1854584			
Order No.: S3240		Client Sample Ref.:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13
		Client Sample ID.:	TSP13-09B	TSP13-10B	TSP13-11B	TSP13-12B	TSP13-13B	TSP13-14B	TSP13-15B	TSP13-16B			
		Sample Location:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13			
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
		Top Depth (m):	1.7	1.55	1.7	1.6	1.7	1.45	1.6	1.75			
		Bottom Depth (m):	1.7	1.55	1.7	1.6	1.7	1.45	1.6	1.75			
		Date Sampled:	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024			
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	0.56	0.66	0.23	< 0.10	0.42	0.33	0.39
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.21	0.15	< 0.10	0.19	0.16	0.34
Fluoranthene		M	2800	mg/kg	0.10	1.1	1.3	1.5	0.93	< 0.10	1.4	1.3	1.6
Pyrene		M	2800	mg/kg	0.10	1.1	1.2	1.4	0.94	< 0.10	1.1	1.3	1.6
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.58	0.60	0.80	0.52	< 0.10	0.63	0.71	1.4
Chrysene		M	2800	mg/kg	0.10	0.63	0.68	0.83	0.57	< 0.10	0.69	0.75	1.3
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.3	1.3	1.5	1.1	< 0.10	1.2	1.3	2.0
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.38	0.46	0.44	0.35	< 0.10	0.38	0.46	1.3
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.1	1.1	1.2	0.89	< 0.10	1.0	1.1	1.8
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.88	0.91	1.0	0.73	< 0.10	0.84	0.77	1.7
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.92
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.91	0.93	0.99	0.80	< 0.10	0.88	0.86	1.8
Total Of 16 PAH's		N	2800	mg/kg	2.0	8.0	9.0	11	7.2	< 2.0	8.7	9.0	16

Results - Soil

Project: Adrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903
Quotation No.: Q24-35340		Chemtest Sample ID.:	1854585	1854586	1854587	1854588	1854589	1854590	1854591	1854592		
Order No.: S3240		Client Sample Ref.:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13
		Client Sample ID.:	TSP13-17B	TSP13-18B	TSP13-19B	TSP13-20B	TSP13-21B	TSP13-22B	TSP13-23B	TSP13-24B		
		Sample Location:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13		
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):	1.6	1.5	1.65	1.75	1.5	1.7	1.6	1.5		
		Bottom Depth (m):	1.6	1.5	1.65	1.75	1.5	1.7	1.6	1.5		
		Date Sampled:	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024		
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	13	15	4.6	15	13	16	13
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones and Roots	Stones	Stones	Stones	Stones	Stones and Glass
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	0.14	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	0.14	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	0.16	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	0.31	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0	5.8	25	13	24	3.2
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	< 3.0	< 3.0	< 3.0	18	9.0	10	5.1
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	< 5.0	< 5.0	8.5	43	22	34	8.3
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	43	22	34	< 10
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	< 2.0	< 2.0	3.9	6.5	5.0	30	11
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	< 2.0	2.2	3.4	12	6.3	26	30
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	2.1	2.2	340	3.0
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	< 5.0	< 5.0	7.2	19	11	56	41
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	21	14	400	44
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	< 10	< 10	16	62	34	90	49
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	< 10	< 10	16	64	36	430	53
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: Adrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903
Quotation No.: Q24-35340		Chemtest Sample ID.:	1854585	1854586	1854587	1854588	1854589	1854590	1854591	1854592			
Order No.: S3240		Client Sample Ref.:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13
		Client Sample ID.:	TSP13-17B	TSP13-18B	TSP13-19B	TSP13-20B	TSP13-21B	TSP13-22B	TSP13-23B	TSP13-24B			
		Sample Location:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13			
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
		Top Depth (m):	1.6	1.5	1.65	1.75	1.5	1.7	1.6	1.5			
		Bottom Depth (m):	1.6	1.5	1.65	1.75	1.5	1.7	1.6	1.5			
		Date Sampled:	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024			
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	6.5	0.88	0.44	1.4	0.49	0.22	0.38	0.44
Anthracene		M	2800	mg/kg	0.10	1.8	0.48	0.18	0.42	0.24	< 0.10	< 0.10	0.17
Fluoranthene		M	2800	mg/kg	0.10	24	3.7	1.7	2.9	2.1	1.1	1.5	1.5
Pyrene		M	2800	mg/kg	0.10	20	3.4	1.6	2.4	1.8	1.0	1.3	1.4
Benzo[a]anthracene		M	2800	mg/kg	0.10	9.8	1.8	0.93	1.2	0.99	0.58	0.78	0.72
Chrysene		M	2800	mg/kg	0.10	8.6	1.8	1.0	1.2	1.0	0.54	0.81	0.77
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	13	2.9	1.5	1.9	1.7	1.1	1.5	1.2
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	4.3	1.1	0.56	0.58	0.58	0.33	0.47	0.44
Benzo[a]pyrene		M	2800	mg/kg	0.10	12	2.6	1.3	1.4	1.4	0.98	1.2	1.1
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	7.4	1.9	1.1	1.1	1.0	0.76	1.0	0.77
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	1.2	< 0.10	< 0.10	< 0.10	< 0.10	0.12	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	7.0	1.9	1.0	1.0	1.1	0.82	1.1	0.85
Total Of 16 PAH's		N	2800	mg/kg	2.0	120	23	11	16	12	7.6	10	9.4

Results - Soil

Project: Adrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903
Quotation No.: Q24-35340		Chemtest Sample ID.:	1854593	1854594	1854595	1854596	1854597	1854598	1854599	1854600		
Order No.: S3240		Client Sample Ref.:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13
		Client Sample ID.:	TSP13-25B	TSP13-26B	TSP13-27B	TSP13-28B	TSP13-29B	TSP13-30B	TSP13-31B	TSP13-32B		
		Sample Location:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13		
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):	1.7	1.65	1.75	1.6	1.55	1.5	1.7	1.6		
		Bottom Depth (m):	1.7	1.65	1.75	1.6	1.55	1.5	1.7	1.6		
		Date Sampled:	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024		
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	14	11	13	16	13	14	15
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones and Brick	Stones	Stones	Stones	Stones and Brick	Stones and Roots
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0	2.3	< 2.0	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	< 1.0	< 1.0	5.4	17	11	11	3.6
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	9.1	< 2.0	27	46	32	39	7.2
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	5.5	< 3.0	33	50	33	32	5.8
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	12	< 10	10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	15	< 5.0	67	120	77	81	18
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	15	< 10	79	120	87	81	28
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	2.2	< 1.0	< 1.0	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	3.9	< 2.0	6.1	16	16	21	< 2.0
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	7.8	2.2	18	19	32	38	4.3
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	1.5	< 1.0	40	21	18	30	11
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	12	< 5.0	25	37	48	59	6.0
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	13	< 10	65	58	67	89	17
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	26	< 10	92	150	130	140	24
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	28	< 10	140	170	150	170	45
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: Adrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903
Quotation No.: Q24-35340		Chemtest Sample ID.:	1854593	1854594	1854595	1854596	1854597	1854598	1854599	1854600			
Order No.: S3240		Client Sample Ref.:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13
		Client Sample ID.:	TSP13-25B	TSP13-26B	TSP13-27B	TSP13-28B	TSP13-29B	TSP13-30B	TSP13-31B	TSP13-32B			
		Sample Location:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13			
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
		Top Depth (m):	1.7	1.65	1.75	1.6	1.55	1.5	1.7	1.6			
		Bottom Depth (m):	1.7	1.65	1.75	1.6	1.55	1.5	1.7	1.6			
		Date Sampled:	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024			
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.41	< 0.10	0.57	0.42	0.41	0.47	0.79	0.43
Anthracene		M	2800	mg/kg	0.10	0.24	< 0.10	0.34	0.17	0.24	0.28	0.55	0.15
Fluoranthene		M	2800	mg/kg	0.10	1.7	0.83	2.5	1.6	1.4	2.3	2.5	1.3
Pyrene		M	2800	mg/kg	0.10	1.6	0.86	2.4	1.4	1.3	2.2	2.5	1.2
Benzo[a]anthracene		M	2800	mg/kg	0.10	1.0	< 0.10	2.0	0.64	0.88	1.2	1.8	0.66
Chrysene		M	2800	mg/kg	0.10	1.1	< 0.10	1.9	0.68	0.80	1.3	2.0	0.73
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.8	< 0.10	3.0	1.2	1.4	2.7	2.8	1.2
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.65	< 0.10	1.9	0.44	0.58	0.75	1.7	0.48
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.7	< 0.10	2.4	0.92	1.2	2.3	2.3	1.1
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	1.5	< 0.10	2.5	0.74	1.1	1.8	2.2	0.76
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.32	< 0.10	1.5	< 0.10	0.35	< 0.10	1.2	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	1.5	< 0.10	2.5	0.68	1.0	1.9	2.2	0.82
Total Of 16 PAH's		N	2800	mg/kg	2.0	14	< 2.0	24	8.9	11	17	23	8.8

Results - Soil

Project: Adrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				24-26903	24-26903	24-26903	24-26903	24-26903
Quotation No.: Q24-35340		Chemtest Sample ID.:				1854601	1854602	1854603	1854604	1854605
Order No.: S3240		Client Sample Ref.:				TSP13	TSP13	TSP13	TSP13	TSP13
		Client Sample ID.:				TSP13-33B	TSP13-34B	TSP13-35B	TSP13-36B	TSP13-37B
		Sample Location:				TSP13	TSP13	TSP13	TSP13	TSP13
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				1.5	1.5	1.45	1.6	1.55
		Bottom Depth (m):				1.5	1.5	1.45	1.6	1.55
		Date Sampled:				20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
Moisture		N	2030	%	0.020	12	15	14	14	14
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones and Brick
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0	< 2.0	11
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	20	18	9.5	14	50
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	68	44	27	87	86
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	69	42	28	88	92
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	11	10	14	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	160	100	65	190	240
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	160	120	75	200	240
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	5.0	7.3	< 1.0	28	7.7
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	24	82	5.2	54	32
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	34	83	13	23	27
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	31	22	16	23	33
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	63	170	18	110	66
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	94	190	35	130	99
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	220	280	83	290	300
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	250	310	110	330	340
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: Adrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-26903	24-26903	24-26903	24-26903	24-26903
Quotation No.: Q24-35340		Chemtest Sample ID.:	1854601	1854602	1854603	1854604	1854605
Order No.: S3240		Client Sample Ref.:	TSP13	TSP13	TSP13	TSP13	TSP13
		Client Sample ID.:	TSP13-33B	TSP13-34B	TSP13-35B	TSP13-36B	TSP13-37B
		Sample Location:	TSP13	TSP13	TSP13	TSP13	TSP13
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	1.5	1.5	1.45	1.6	1.55
		Bottom Depth (m):	1.5	1.5	1.45	1.6	1.55
		Date Sampled:	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.51	0.30
Anthracene		M	2800	mg/kg	0.10	0.25	0.14
Fluoranthene		M	2800	mg/kg	0.10	2.4	1.3
Pyrene		M	2800	mg/kg	0.10	2.2	1.3
Benzo[a]anthracene		M	2800	mg/kg	0.10	1.1	0.66
Chrysene		M	2800	mg/kg	0.10	1.1	0.62
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	2.0	1.3
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.70	0.54
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.5	1.1
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	1.2	0.89
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.24	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	1.3	0.95
Total Of 16 PAH's		N	2800	mg/kg	2.0	15	9.1

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics. (cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8–C10 Aromatics: >C5–C7,>C7–C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request.

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

All Asbestos testing is performed at the indicated laboratory.

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

Sample Deviation Codes

-
- A - Date of sampling not supplied
 - B - Sample age exceeds stability time (sampling to extraction)
 - C - Sample not received in appropriate containers
 - D - Broken Container
 - E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

All water samples will be retained for 14 days from the date of receipt.

Charges may apply to extended sample storage.

Water Sample Category Key for Accreditation

-
- DW - Drinking Water
 - GW - Ground Water
 - LE - Land Leachate
 - NA - Not Applicable

Report Information

PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

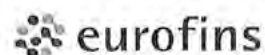
Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com



Chemtest
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.: 24-28143-1

Initial Date of Issue: 05-Sep-2024

Re-Issue Details:

Client Sanctus Limited

Client Address: 1 Olympus Park Business Centre
Quedgeley
Gloucester
Gloucestershire
GL2 4DH

Contact(s): Labs

Project S3240 Ardrossan North Shore

Quotation No.: Q24-35340

Date Received: 02-Sep-2024

Order No.: S3240

Date Instructed: 02-Sep-2024

No. of Samples: 37

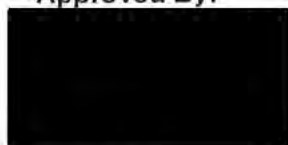
Turnaround (Wkdays): 4

Results Due: 05-Sep-2024

Date Approved: 05-Sep-2024

Subcon Results Due: 05-Sep-2024

Approved By:



Details:  Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-28143	24-28143	24-28143	24-28143	24-28143	24-28143	24-28143	24-28143	24-28143	24-28143
Quotation No.: Q24-35340		Chemtest Sample ID.:	1859708	1859709	1859710	1859711	1859712	1859713	1859714	1859715		
Order No.: S3240		Client Sample Ref.:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13
		Client Sample ID.:	TSP13-01C	TSP13-02C	TSP13-03C	TSP13-04C	TSP13-05C	TSP13-06C	TSP13-07C	TSP13-08C		
		Sample Location:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13		
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Bottom Depth (m):	1.80	1.65	1.75	1.80	1.65	1.80	1.90	1.85		
		Date Sampled:	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024		
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	15	13	23	13	15	16	16
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones and Roots	Stones	Stones and Brick	Stones and Brick
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	3.1	3.7	3.2	3.1	2.7	2.4	2.6
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	5.4	8.2	4.0	9.1	1.4	1.4	2.1
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	8.6	23	30	32	11	14	20
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	< 3.0	15	26	16	< 3.0	5.5	8.4
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	19	50	63	61	18	23	33
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	19	50	63	61	18	23	33
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	1.8	< 1.0	< 1.0	1.3	< 1.0	< 1.0	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	3.7	6.7	16	15	7.4	8.4	9.5
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	6.3	16	28	22	11	14	18
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	5.7	22	39	37	32	9.2	20
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	12	23	45	39	18	23	27
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	17	46	84	76	50	32	47
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	31	73	110	99	36	46	52
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	36	95	150	140	68	55	72
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-28143	24-28143	24-28143	24-28143	24-28143	24-28143	24-28143	24-28143	24-28143	24-28143	24-28143
Quotation No.: Q24-35340		Chemtest Sample ID.:	1859708	1859709	1859710	1859711	1859712	1859713	1859714	1859715			
Order No.: S3240		Client Sample Ref.:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13
		Client Sample ID.:	TSP13-01C	TSP13-02C	TSP13-03C	TSP13-04C	TSP13-05C	TSP13-06C	TSP13-07C	TSP13-08C			
		Sample Location:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13			
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
		Bottom Depth (m):	1.80	1.65	1.75	1.80	1.65	1.80	1.90	1.85			
		Date Sampled:	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024			
Determinand	HWOL Code	Accred.	SQP	Units	LOD								
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.41	0.54	0.28	0.51	0.31	0.24	0.56	0.40
Anthracene		M	2800	mg/kg	0.10	0.18	< 0.10	< 0.10	0.30	0.22	0.19	0.33	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	1.3	1.6	1.0	1.8	1.5	0.92	2.1	1.3
Pyrene		M	2800	mg/kg	0.10	1.2	1.4	1.0	1.7	1.4	0.92	1.9	1.2
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.57	0.74	0.51	1.2	0.82	0.50	1.1	0.71
Chrysene		M	2800	mg/kg	0.10	0.64	0.80	0.57	1.1	0.82	0.63	1.1	0.82
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.2	1.4	1.1	1.9	1.5	0.98	2.0	1.4
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.43	0.49	0.36	0.92	0.52	0.35	0.73	0.55
Benzo[a]pyrene		M	2800	mg/kg	0.10	0.97	1.2	0.89	1.6	1.4	0.82	1.7	1.1
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.83	1.0	0.72	1.5	0.97	0.79	1.3	1.0
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.57	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.91	1.1	0.80	1.5	0.99	0.78	1.5	0.94
Total Of 16 PAH's		N	2800	mg/kg	2.0	8.6	10	7.2	15	11	7.1	14	9.4

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-28143	24-28143	24-28143	24-28143	24-28143	24-28143	24-28143	24-28143	24-28143	24-28143
Quotation No.: Q24-35340		Chemtest Sample ID.:	1859716	1859717	1859718	1859719	1859720	1859721	1859722	1859723	1859723	1859723
Order No.: S3240		Client Sample Ref.:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13
		Client Sample ID.:	TSP13-09C	TSP13-10C	TSP13-11C	TSP13-12C	TSP13-13C	TSP13-14C	TSP13-15C	TSP13-16C	TSP13-16C	TSP13-16C
		Sample Location:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	1.75	1.80	1.90	1.85	1.95	1.50	1.55	1.70	1.70	1.70
		Date Sampled:	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	15	16	16	16	16	15	13
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones and Brick	Stones	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	3.1	4.2	4.1	4.6	4.9	4.3	2.8
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	5.0	8.1	15	15	18	7.8	10
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	25	38	24	43	79	77	35
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	16	3.5	5.8	19	78	85	19
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	49	54	49	82	180	180	57
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	49	54	49	82	180	200	57
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	7.7	5.7	3.6	1.7	1.8	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	12	34	47	20	16	17	13
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	19	38	68	33	13	17	35
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	17	82	45	87	27	26	47
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	30	79	120	57	30	36	52
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	48	160	170	140	57	62	99
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	79	130	170	140	210	220	110
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	97	220	210	230	230	260	160
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-28143	24-28143	24-28143	24-28143	24-28143	24-28143	24-28143	24-28143	24-28143	24-28143	24-28143
Quotation No.: Q24-35340		Chemtest Sample ID.:	1859716	1859717	1859718	1859719	1859720	1859721	1859722	1859723			
Order No.: S3240		Client Sample Ref.:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13
		Client Sample ID.:	TSP13-09C	TSP13-10C	TSP13-11C	TSP13-12C	TSP13-13C	TSP13-14C	TSP13-15C	TSP13-16C			
		Sample Location:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13			
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
		Bottom Depth (m):	1.75	1.80	1.90	1.85	1.95	1.50	1.55	1.70			
		Date Sampled:	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024			
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.90	0.87	0.74	0.23	0.60	0.38	0.83	0.38
Anthracene		M	2800	mg/kg	0.10	0.58	0.50	0.49	< 0.10	0.29	< 0.10	0.29	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	2.4	3.2	2.9	0.87	2.1	1.5	2.0	1.2
Pyrene		M	2800	mg/kg	0.10	2.1	2.6	2.5	0.83	1.8	1.4	1.7	1.2
Benzo[a]anthracene		M	2800	mg/kg	0.10	1.3	1.9	1.6	0.47	0.88	0.84	0.91	0.82
Chrysene		M	2800	mg/kg	0.10	1.4	1.9	1.6	0.57	0.94	0.87	0.68	0.83
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.8	2.9	2.5	0.88	1.5	1.5	1.7	1.4
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.76	1.3	1.2	0.33	0.54	0.68	0.50	0.53
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.5	2.5	2.1	0.77	1.5	1.2	1.2	1.3
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	1.2	2.0	1.7	0.63	1.0	0.95	1.2	0.93
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.44	0.62	0.52	< 0.10	< 0.10	0.43	0.21	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	1.3	2.0	1.7	0.65	1.1	1.0	1.0	0.99
Total Of 16 PAH's		N	2800	mg/kg	2.0	16	22	20	6.2	12	11	12	9.6

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-28143	24-28143	24-28143	24-28143	24-28143	24-28143	24-28143	24-28143	24-28143	24-28143
Quotation No.: Q24-35340		Chemtest Sample ID.:	1859724	1859725	1859726	1859727	1859728	1859729	1859730	1859731		
Order No.: S3240		Client Sample Ref.:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13
		Client Sample ID.:	TSP13-17C	TSP13-18C	TSP13-19C	TSP13-20C	TSP13-21C	TSP13-22C	TSP13-23C	TSP13-24C		
		Sample Location:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	1.65	1.85	1.80	1.70	1.75	1.85	1.90	1.75		
		Date Sampled:	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	16	15	15	14	16	15	15
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Glass and Stones	Stones	Stones and Brick	Stones	Stones and Brick	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	6.0	4.9	4.6	2.9	5.4	3.9	5.2
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	10	9.4	9.8	4.1	20	11	6.7
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	15	13	18	15	54	15	13
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	11	4.7	12	9.1	38	5.6	5.5
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	42	32	44	31	120	36	30
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	42	32	44	31	120	36	30
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.0	1.9
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	2.5	6.3	2.6	1.3	9.4	4.8	1.5
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	19	16	19	14	47	28	9.9
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	16	18	19	13	29	38	10
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	26	6.6	11	5.9	35	14	2.7
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	37	41	41	28	86	73	23
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	63	47	52	34	120	87	26
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	79	73	85	59	200	110	54
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	100	80	97	65	240	120	56
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-28143	24-28143	24-28143	24-28143	24-28143	24-28143	24-28143	24-28143	24-28143	24-28143
Quotation No.: Q24-35340		Chemtest Sample ID.:	1859724	1859725	1859726	1859727	1859728	1859729	1859730	1859731		
Order No.: S3240		Client Sample Ref.:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13
		Client Sample ID.:	TSP13-17C	TSP13-18C	TSP13-19C	TSP13-20C	TSP13-21C	TSP13-22C	TSP13-23C	TSP13-24C		
		Sample Location:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	1.65	1.85	1.80	1.70	1.75	1.85	1.90	1.75		
		Date Sampled:	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.43
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.43
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.80	3.9	0.34	0.71	1.3	0.96	1.9
Anthracene		M	2800	mg/kg	0.10	0.26	1.5	0.24	0.33	0.55	0.49	0.52
Fluoranthene		M	2800	mg/kg	0.10	2.0	9.1	1.3	2.0	3.2	4.3	2.1
Pyrene		M	2800	mg/kg	0.10	1.8	7.4	1.2	1.7	2.7	3.7	2.2
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.96	4.0	0.67	1.0	1.7	1.9	1.0
Chrysene		M	2800	mg/kg	0.10	0.95	4.2	0.68	1.2	1.8	1.8	1.0
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.7	5.4	1.3	1.9	2.5	2.8	1.9
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.53	2.4	0.44	0.61	1.1	1.1	0.63
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.4	5.0	1.1	1.6	2.2	2.6	1.5
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	1.1	3.3	0.97	1.2	1.7	1.5	1.0
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	1.2	< 0.10	< 0.10	0.67	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	1.1	3.3	0.92	1.1	1.6	1.4	1.3
Total Of 16 PAH's		N	2800	mg/kg	2.0	13	51	9.2	13	21	23	16

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-28143	24-28143	24-28143	24-28143	24-28143	24-28143	24-28143	24-28143	24-28143	24-28143
Quotation No.: Q24-35340		Chemtest Sample ID.:	1859732	1859733	1859734	1859735	1859736	1859737	1859738	1859739		
Order No.: S3240		Client Sample Ref.:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13
		Client Sample ID.:	TSP13-25C	TSP13-26C	TSP13-27C	TSP13-28C	TSP13-29C	TSP13-30C	TSP13-31C	TSP13-32C		
		Sample Location:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	1.85	1.80	1.65	1.80	1.90	1.95	1.80	1.75		
		Date Sampled:	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	15	15	16	15	16	15	13
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones and Roots	Stones and Roots
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	3.6	3.9	5.6	4.8	4.1	4.5	4.5
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	7.3	19	13	13	7.6	8.5	39
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	19	52	28	27	12	15	79
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	16	36	23	26	< 3.0	8.8	10
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	46	110	69	71	25	37	39
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	46	110	69	71	25	37	39
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	1.3	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	8.7	15	2.3	4.3	1.2	2.4	3.6
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	26	47	26	32	8.7	23	21
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	34	29	12	11	30	26	15
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	9.7	17	8.0	8.3	3.7	18	30
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	69	90	41	48	40	52	40
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	79	110	49	57	43	70	70
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	110	200	110	120	64	89	79
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	120	220	120	130	68	110	110
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-28143	24-28143	24-28143	24-28143	24-28143	24-28143	24-28143	24-28143	24-28143	24-28143	24-28143
Quotation No.: Q24-35340		Chemtest Sample ID.:	1859732	1859733	1859734	1859735	1859736	1859737	1859738	1859739			
Order No.: S3240		Client Sample Ref.:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13
		Client Sample ID.:	TSP13-25C	TSP13-26C	TSP13-27C	TSP13-28C	TSP13-29C	TSP13-30C	TSP13-31C	TSP13-32C			
		Sample Location:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	1.85	1.80	1.65	1.80	1.90	1.95	1.80	1.75			
		Date Sampled:	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Naphthalene		M	2800	mg/kg	0.10	0.11	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.98	0.60	0.40	0.47	0.26	1.7	0.79	0.30
Anthracene		M	2800	mg/kg	0.10	0.51	0.35	< 0.10	< 0.10	0.14	0.58	0.48	0.19
Fluoranthene		M	2800	mg/kg	0.10	3.3	2.6	1.6	1.8	0.90	4.1	3.2	1.3
Pyrene		M	2800	mg/kg	0.10	2.8	2.4	1.5	1.7	0.90	3.9	2.8	1.2
Benzo[a]anthracene		M	2800	mg/kg	0.10	1.7	1.5	1.2	1.1	0.49	2.2	1.5	0.67
Chrysene		M	2800	mg/kg	0.10	1.8	1.5	1.2	1.1	0.44	2.5	1.6	0.69
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	2.8	2.6	1.8	2.1	1.1	4.4	3.1	1.2
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.94	0.78	1.1	0.77	0.34	1.3	1.1	0.43
Benzo[a]pyrene		M	2800	mg/kg	0.10	2.2	2.2	1.6	1.9	0.91	4.2	2.5	1.0
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	1.5	1.7	1.3	1.2	0.91	3.1	1.8	0.83
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	0.62	0.30	< 0.10	0.51	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	1.5	1.5	1.3	1.4	0.87	3.3	1.8	0.89
Total Of 16 PAH's		N	2800	mg/kg	2.0	20	18	14	14	7.3	32	21	8.7

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-28143	24-28143	24-28143	24-28143	24-28143
Quotation No.: Q24-35340		Chemtest Sample ID.:	1859740	1859741	1859742	1859743	1859744
Order No.: S3240		Client Sample Ref.:	TSP13	TSP13	TSP13	TSP13	TSP13
		Client Sample ID.:	TSP13-33C	TSP13-34C	TSP13-35C	TSP13-36C	TSP13-37C
		Sample Location:	TSP13	TSP13	TSP13	TSP13	TSP13
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	1.80	1.85	1.85	1.80	1.75
		Date Sampled:	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Moisture		N	2030	%	0.020	14	15
Soil Colour		N	2040		N/A	Brown	Brown
Other Material		N	2040		N/A	Stones	Glass, Stones and Roots
Soil Texture		N	2040		N/A	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	4.9	3.1
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	14	< 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	34	< 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	45	< 3.0
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	97	5.5
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	97	< 10
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	6.8	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	43	7.4
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	19	3.0
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	15	< 1.0
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	69	10
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	83	36
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	170	16
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	180	41
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-28143	24-28143	24-28143	24-28143	24-28143
Quotation No.: Q24-35340		Chemtest Sample ID.:	1859740	1859741	1859742	1859743	1859744
Order No.: S3240		Client Sample Ref.:	TSP13	TSP13	TSP13	TSP13	TSP13
		Client Sample ID.:	TSP13-33C	TSP13-34C	TSP13-35C	TSP13-36C	TSP13-37C
		Sample Location:	TSP13	TSP13	TSP13	TSP13	TSP13
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	1.80	1.85	1.85	1.80	1.75
		Date Sampled:	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.70	0.49
Anthracene		M	2800	mg/kg	0.10	0.36	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	1.8	2.1
Pyrene		M	2800	mg/kg	0.10	1.5	1.9
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.87	1.1
Chrysene		M	2800	mg/kg	0.10	0.94	1.3
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	2.0	2.1
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.57	0.71
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.7	1.8
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	1.3	1.3
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	1.3	1.2
Total Of 16 PAH's		N	2800	mg/kg	2.0	13	14

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8–C10 Aromatics: >C5–C7,>C7–C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request.

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

All Asbestos testing is performed at the indicated laboratory.

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

Sample Deviation Codes

-
- A - Date of sampling not supplied
 - B - Sample age exceeds stability time (sampling to extraction)
 - C - Sample not received in appropriate containers
 - D - Broken Container
 - E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

All water samples will be retained for 14 days from the date of receipt.

Charges may apply to extended sample storage.

Water Sample Category Key for Accreditation

-
- DW - Drinking Water
 - GW - Ground Water
 - LE - Land Leachate
 - NA - Not Applicable

Report Information

PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

**Treated Stockpile Reuse Validation Form 010 – TSP12****Stockpile ID**

Stockpile ID: TSP13

Material Volume:
Validation Samples Included4,000 m³
40 No.

Tested Location: Treatment Area 02

Stockpile Creation Date: 18/06/2024

Release Date: TBC

Sampling Data (3No. full rounds for validation to release)

Passing Round 1 (Overall Sample Round 2 of 4)	Sample Date: 21/08/2024	Report Number & Date: 24-27293 – 29/08/2024	Lab: Eurofins
Passing Round 2 (Overall Sample Round 3 of 4)	Sample Date: 29/08/2024	Report Number & Date: 24-28144 – 05/09/2024	Lab: Eurofins
Passing Round 3 (Overall Sample Round 4 of 4)	Sample Date: 03/09/2024	Report Number & Date: 24-28559 – 10/09/2024	Lab: Eurofins

Sampling Data**Passing Round 1**

Report Number: 24-27293

Report Date: 29/08/2024

Sample ID (Sample Names): TSP12-01A → TSP12-40A

Report ID (Lab): Eurofins

Comments:

Test Results: PASS / FAIL

Overall, 2nd round of sampling undertaken from the treated Stockpile. For total TPH, 2No exceedances were seen from the 40No samples (2.5% of samples), with a maximum value of 1,200 mg/kg seen from sample TSP12-09A. Following a statistical review, a >95% confidence level is seen with the distribution of total TPH, using the critical value of 1,000mg/kg and a log-normal distribution. Overall average Total TPH = 277 mg/kg. Sanctus deem this round of sampling as chemically suitable for reuse.

Passing Round 2

Report Number: 24-28144

Report Date: 05/09/2024

Sample ID (Sample Names): TSP12-01B → TSP12-40B

Report ID (Lab): Eurofins

Comments:

Test Results: PASS / FAIL

Overall, 3rd round of sampling undertaken from the treated Stockpile. For total TPH, 1No exceedance was seen from the 40No samples (5% of samples), with a maximum value of 1,700 mg/kg seen from sample TSP12-07B. Following a statistical review, a >95% confidence level is seen with the distribution of total TPH, using the critical value of 1,000mg/kg and a log-normal distribution. Total average Total TPH = 292 mg/kg. Sanctus deem this final round of sampling as chemically suitable for reuse.

Passing Round 3

Report Number: 24-28559

Report Date: 10/09/2024

Sample ID (Sample Names): TSP12-01C → TSP12-40C

Report ID (Lab): Eurofins

Comments:

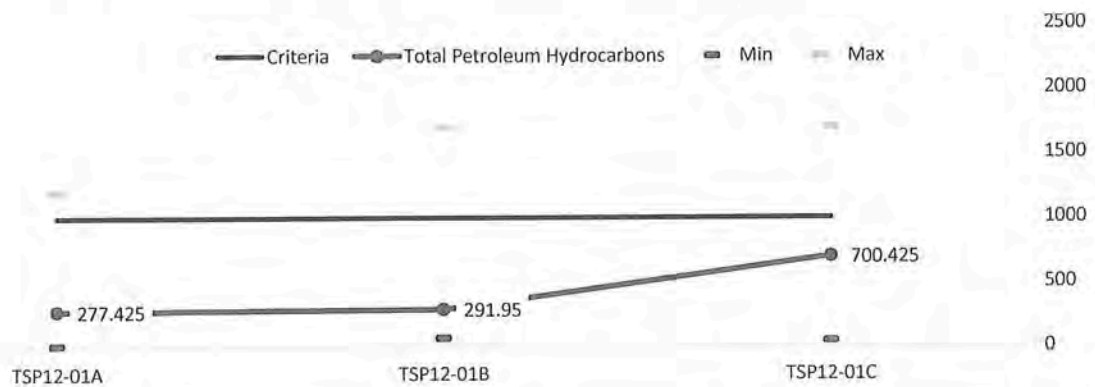
Test Results: PASS / FAIL

Overall, 4th round of sampling undertaken from the treated Stockpile. For total TPH, 3No exceedances were seen from the 40No samples (7.5% of samples), with a maximum value of 1,700 mg/kg seen from sample TSP12-09A. Following a statistical review, a >95% confidence level is seen with the distribution of total TPH, using the critical value of 1,000mg/kg and a normal-normal distribution. Total average Total TPH = 700 mg/kg. Sanctus deem this round of sampling as chemically suitable for reuse.

Data Review

Data Trend for Total TPH levels:

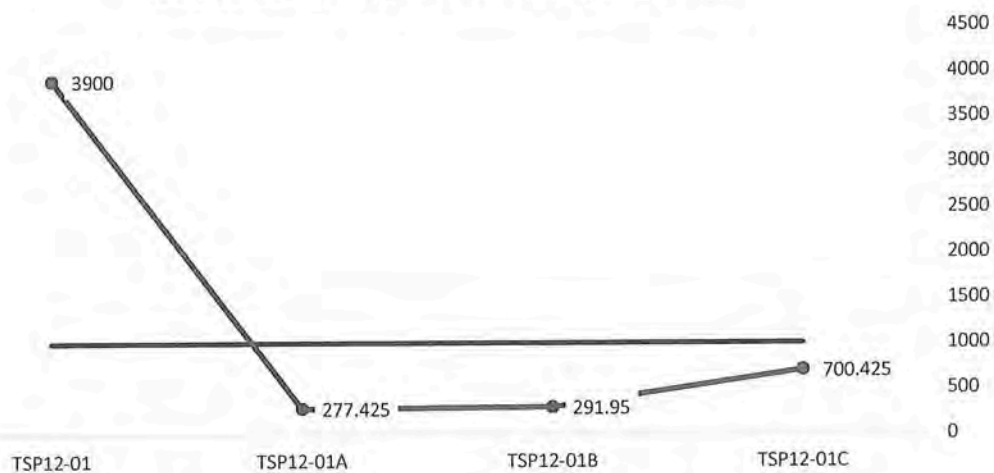
Min & Max Soil Values for Total Petroleum Hydrocarbons

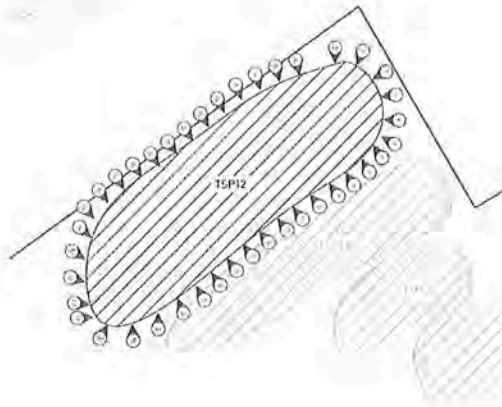


Additional Trendline Data – long term review:

Further to the above spread of data for the final 3 No. rounds, the total TPH levels from July 2024, for the treated stockpile, are shown below. The chart shows a significant decrease in the averaged total TPH levels, and the final result presents a reduction of total TPH level of 89% when compared to the highest material's contents (3,900 mg/kg (18th June 2024), compared to 700 mg/kg (3rd September 2024)):

Soil Values for Total Petroleum Hydrocarbons



Treated Stockpile Sample Plan:**Sampling Strategy:**

All samples have been taken in compliance with ISO BS 18400, including the following notes:

- Stainless steel/washable sampling devices (trowels, buckets, etc) will be employed for the gathering of the soils samples and cleaned between each sample location so that consecutive samples are not cross-contaminated.
- The sample positions shown above indicate the position relative to the base boundary of the stockpile. All samples are taken from within the body of the Stockpile, retrieved by an excavator. This is done as a safe sample retrieval option as well as to target an internal representative sample location mid-way from the edge to the centre of the Stockpile, as discussed under BS ISO 18400-104:2018 (Sampling Strategies), subsection 9.
- The subsequent sample depths were between 1-2 m below the Stockpile's surface and a minimum of 4No. characteristic subsamples were taken from an area of approximately 1m² of the newly exposed material. The 4No. or more sub-locations were chosen in a X-pattern and the combined testing soil material is described as a composite sample, following a systematic stratified random sub-sampling location of a 3-dimensional source.
- The mechanically retrieved material is then sub-sampled into the required sampling jars/pots by the Sanctus Engineer as a representative sample from the numbered location.



Sanctus Declaration:

We confirm that:

1. The material that this form relates to, has been sampled representatively, as discussed above and in accordance with the client's requirements (Ardrossan Remediation Specification Rev E).
2. The material has been proven to be suitable for REUSE on site as there are 3 No. consecutive rounds, with a statistical insignificant number of exceedances of the accepted reuse criteria. All three monitoring rounds return a confidence level of >95% confidence when compared to the statistical confidence critical level of 1,000mg/kg for total TPH. Each round's average for the total TPH levels have been significantly below the 1,000mg/kg threshold level.
3. The laboratory analysis results are representative of the materials investigated.
4. The material released will also be recorded spatially at its reuse location.

NAME: [REDACTED]

POSITION: Senior Environmental Engineer

DATE: 07/10/2024

SIGNED:

☒ Recoverable Signature

X

Senior Environmental Engineer

Signed by: 7ee90afd-5b10-4b4f-a839-775383c68d48

Record of reuse

For Sanctus Use Only:

Approved for reuse:

Beginning of Movement from stockpile:

End of Movement into site:



Sanctus House, 1 Olympus Park Business Centre,
Quedgeley, Glos, GL2 4DH
T: 01453 828222
E: info@sanctusltd.co.uk www.sanctusltd.com

Drawing Notes:
Based on client supplied DWG -
ARDROSSAN 20 produced by Aird Group
23/03/2020. All locations are approximate.
Must be printed in colour.

Site Address:
Raylight Place
Ardrossan
North Ayrshire
Scotland

Rev.	Description	Date
A	First Issue	07/10/2024

APPROVED

Project Name:
North Shore, Ardrossan

Client:
North Ayrshire Council

Drawing Title:
Treated Stockpile 12 Sample Locations

Contract No:
53240

Drawn By:

Drawing No:
D3240/103

QC Check By:

Scale @ A3:
1:500

Approved By:

[illegible]

Final Report

Report No.: 24-27293-1

Initial Date of Issue: 29-Aug-2024

Re-Issue Details:

Client Sanctus Limited

Client Address: 1 Olympus Park Business Centre
Quedgeley
Gloucester
Gloucestershire
GL2 4DH

Contact(s): Labs

Project S3240 Ardrossan North Shore

Quotation No.: Q24-35340

Date Received: 23-Aug-2024

Order No.: S3240

Date Instructed: 23-Aug-2024

No. of Samples: 40

Turnaround (Wkdays): 3

Results Due: 28-Aug-2024

Date Approved: 29-Aug-2024

Approved By:



Details:  Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293
Quotation No.: Q24-35340		Chemtest Sample ID.:	1856148	1856149	1856150	1856151	1856152	1856153	1856154	1856155		
Order No.: S3240		Client Sample Ref.:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12
		Client Sample ID.:	TSP12-01A	TSP12-02A	TSP12-03A	TSP12-04A	TSP12-05A	TSP12-06A	TSP12-07A	TSP12-08A		
		Sample Location:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	1.55	1.90	1.85	1.60	1.90	1.70	1.65	1.50		
		Date Sampled:	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024
		Asbestos Lab:			IN-TRAN-D							
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	13	14	47	11	12	16	13
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	U	2690	mg/kg	2.00	5.7	4.1	12	4.7	16	4.0	3.5
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	U	2690	mg/kg	1.00	43	34	150	42	74	32	41
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	U	2690	mg/kg	2.00	74	66	350	77	160	43	65
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	U	2690	mg/kg	3.00	55	42	230	45	79	36	53
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	11	< 10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	U	2690	mg/kg	5.00	180	150	740	170	330	120	160
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	180	150	750	170	330	120	160
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	14	14	20	13	16	7.7	12
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	37	39	110	66	71	30	44
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	25	24	79	36	48	25	29
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	4.3	5.5	110	25	82	12	12
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	76	77	210	120	130	63	85
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	80	82	320	140	220	75	98
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	250	220	950	280	470	180	250
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	260	230	1100	310	550	190	260
Benzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293
Quotation No.: Q24-35340		Chemtest Sample ID.:	1856148	1856149	1856150	1856151	1856152	1856153	1856154	1856155		
Order No.: S3240		Client Sample Ref.:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12
		Client Sample ID.:	TSP12-01A	TSP12-02A	TSP12-03A	TSP12-04A	TSP12-05A	TSP12-06A	TSP12-07A	TSP12-08A		
		Sample Location:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	1.55	1.90	1.85	1.60	1.90	1.70	1.65	1.50		
		Date Sampled:	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024
		Asbestos Lab:			IN-TRAN-D							
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Naphthalene		U	2800	mg/kg	0.10	0.28	0.27	0.36	0.23	0.20	0.17	0.20
Acenaphthylene		N	2800	mg/kg	0.10	0.15	0.11	< 0.10	< 0.10	0.11	< 0.10	0.13
Acenaphthene		U	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.10	< 0.10	< 0.10
Fluorene		U	2800	mg/kg	0.10	0.17	0.11	< 0.10	< 0.10	0.16	< 0.10	0.15
Phenanthrene		U	2800	mg/kg	0.10	0.70	0.51	0.64	0.44	0.92	0.34	1.7
Anthracene		U	2800	mg/kg	0.10	0.26	0.19	0.29	0.19	0.45	0.18	0.58
Fluoranthene		U	2800	mg/kg	0.10	1.8	1.2	1.3	1.3	1.9	0.87	3.9
Pyrene		U	2800	mg/kg	0.10	1.6	1.2	1.2	1.3	1.8	0.83	3.3
Benzo[a]anthracene		U	2800	mg/kg	0.10	0.98	0.71	0.70	0.84	1.0	0.46	1.9
Chrysene		U	2800	mg/kg	0.10	0.91	0.71	0.74	0.88	1.1	0.50	1.9
Benzo[b]fluoranthene		U	2800	mg/kg	0.10	1.8	1.4	1.2	1.4	1.2	0.82	2.6
Benzo[k]fluoranthene		U	2800	mg/kg	0.10	0.61	0.47	0.38	0.50	0.58	0.29	0.99
Benzo[a]pyrene		U	2800	mg/kg	0.10	1.4	1.1	1.0	1.2	1.4	0.62	2.2
Indeno(1,2,3-c,d)Pyrene		U	2800	mg/kg	0.10	0.97	0.86	0.70	0.96	1.2	0.55	1.6
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	0.18	< 0.10	0.18	0.27	< 0.10	0.28
Benzo[g,h,i]perylene		U	2800	mg/kg	0.10	1.0	0.90	0.76	1.0	1.2	0.53	1.6
Total Of 16 PAH's		N	2800	mg/kg	2.0	13	9.9	9.3	10	14	6.2	23

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293
Quotation No.: Q24-35340		Chemtest Sample ID.:	1856156	1856157	1856158	1856159	1856160	1856161	1856162	1856163		
Order No.: S3240		Client Sample Ref.:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12
		Client Sample ID.:	TSP12-09A	TSP12-10A	TSP12-11A	TSP12-12A	TSP12-13A	TSP12-14A	TSP12-15A	TSP12-16A		
		Sample Location:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12		
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Bottom Depth (m):	1.95	1.75	1.90	2.10	1.70	1.50	1.80	1.85		
		Date Sampled:	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024		
		Asbestos Lab:										
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	32	17	15	56	28	15	17
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	U	2690	mg/kg	2.00	25	3.7	14	29	3.0	14	3.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	U	2690	mg/kg	1.00	120	18	91	140	8.3	50	2.5
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	U	2690	mg/kg	2.00	150	30	140	210	38	92	19
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	U	2690	mg/kg	3.00	27	16	120	120	22	75	17
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	14	< 10	15	21	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	U	2690	mg/kg	5.00	330	68	370	510	71	230	42
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	340	68	380	530	71	230	42
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	7.8	< 1.0	1.1	3.8	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	65	3.0	14	52	< 1.0	9.7	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	230	21	67	120	28	41	20
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	440	7.0	68	61	16	36	14
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	81	6.0	76	57	3.2	25	1.3
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	750	31	150	230	44	86	34
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	830	37	230	290	47	110	35
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	1100	98	520	740	110	320	76
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	1200	100	610	820	120	340	77
Benzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293
Quotation No.: Q24-35340		Chemtest Sample ID.:	1856156	1856157	1856158	1856159	1856160	1856161	1856162	1856163			
Order No.: S3240		Client Sample Ref.:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12
		Client Sample ID.:	TSP12-09A	TSP12-10A	TSP12-11A	TSP12-12A	TSP12-13A	TSP12-14A	TSP12-15A	TSP12-16A			
		Sample Location:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12			
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
		Bottom Depth (m):	1.95	1.75	1.90	2.10	1.70	1.50	1.80	1.85			
		Date Sampled:	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024			
		Asbestos Lab:											
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Naphthalene		U	2800	mg/kg	0.10	0.13	0.28	0.17	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	0.23	0.24	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		U	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		U	2800	mg/kg	0.10	< 0.10	< 0.10	0.15	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		U	2800	mg/kg	0.10	0.37	0.97	3.7	0.49	0.96	0.42	0.40	0.68
Anthracene		U	2800	mg/kg	0.10	0.16	0.46	1.1	0.21	0.25	0.20	0.18	0.22
Fluoranthene		U	2800	mg/kg	0.10	1.1	2.6	8.4	1.0	1.5	1.3	1.1	1.6
Pyrene		U	2800	mg/kg	0.10	0.98	2.3	6.7	1.1	1.4	1.2	1.0	1.4
Benzo[a]anthracene		U	2800	mg/kg	0.10	0.51	1.5	3.3	0.65	0.82	0.72	0.58	0.74
Chrysene		U	2800	mg/kg	0.10	0.57	1.4	3.1	0.65	0.91	0.81	0.68	0.81
Benzo[b]fluoranthene		U	2800	mg/kg	0.10	0.96	2.3	4.5	1.2	1.6	1.3	1.0	1.4
Benzo[k]fluoranthene		U	2800	mg/kg	0.10	0.31	0.83	1.6	0.46	0.48	0.52	0.40	0.47
Benzo[a]pyrene		U	2800	mg/kg	0.10	0.79	1.7	3.9	0.96	0.97	1.0	0.77	1.2
Indeno(1,2,3-c,d)Pyrene		U	2800	mg/kg	0.10	0.60	1.2	2.7	0.82	0.93	0.81	0.61	0.96
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.13	< 0.10	0.47	< 0.10	0.22	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		U	2800	mg/kg	0.10	0.69	1.2	2.6	0.77	0.99	0.96	0.69	0.90
Total Of 16 PAH's		N	2800	mg/kg	2.0	7.3	17	43	8.3	11	9.2	7.4	10

Results - Soil

Project: S3240 Ardrossan North Shore

Project: S3240 Ardrossan North Shore													
Client: Sanctus Limited		Chemtest Job No.:				24-27293	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293
Quotation No.: Q24-35340		Chemtest Sample ID.:				1856164	1856165	1856166	1856167	1856168	1856169	1856170	1856171
Order No.: S3240		Client Sample Ref.:				TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12
		Client Sample ID.:				TSP12-17A	TSP12-18A	TSP12-19A	TSP12-20A	TSP12-21A	TSP12-22A	TSP12-23A	TSP12-24A
		Sample Location:				TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):				1.70	1.80	1.60	1.50	1.50	1.55	1.40	1.40
		Date Sampled:				21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024
		Asbestos Lab:											
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Moisture		N	2030	%	0.020	17	16	15	23	18	48	14	15
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	U	2690	mg/kg	2.00	53	2.5	3.5	3.4	5.2	7.7	4.5	4.8
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	U	2690	mg/kg	1.00	150	5.6	1.5	2.0	31	61	10	36
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	U	2690	mg/kg	2.00	200	28	< 2.0	< 2.0	31	110	19	67
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	U	2690	mg/kg	3.00	170	12	< 3.0	< 3.0	26	88	15	42
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	16	< 10	< 10	< 10	< 10	13	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	U	2690	mg/kg	5.00	570	48	5.9	5.9	93	260	48	150
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	590	48	< 10	< 10	93	280	48	150
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	3.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	27	< 1.0	< 1.0	< 1.0	9.5	15	< 1.0	11
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	77	19	5.8	4.5	26	61	19	36
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	29	5.7	3.3	< 2.0	7.2	24	13	24
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	21	< 1.0	< 1.0	< 1.0	< 1.0	49	2.6	22
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	140	25	9.1	5.5	43	100	32	70
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	160	25	< 10	< 10	43	150	35	92
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	700	73	15	11	140	360	81	220
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	740	73	15	11	140	420	83	240
Benzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293
Quotation No.: Q24-35340		Chemtest Sample ID.:	1856164	1856165	1856166	1856167	1856168	1856169	1856170	1856171		
Order No.: S3240		Client Sample Ref.:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12
		Client Sample ID.:	TSP12-17A	TSP12-18A	TSP12-19A	TSP12-20A	TSP12-21A	TSP12-22A	TSP12-23A	TSP12-24A		
		Sample Location:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12		
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Bottom Depth (m):	1.70	1.80	1.60	1.50	1.50	1.55	1.40	1.40		
		Date Sampled:	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024		
		Asbestos Lab:										
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Naphthalene		U	2800	mg/kg	0.10	< 0.10	0.23	0.16	< 0.10	< 0.10	< 0.10	0.15
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		U	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		U	2800	mg/kg	0.10	0.26	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		U	2800	mg/kg	0.10	0.78	0.39	0.52	0.51	0.97	0.40	0.75
Anthracene		U	2800	mg/kg	0.10	0.51	< 0.10	0.19	0.21	0.32	0.21	0.24
Fluoranthene		U	2800	mg/kg	0.10	2.1	0.90	1.4	1.3	1.8	1.3	1.2
Pyrene		U	2800	mg/kg	0.10	1.8	0.94	1.2	1.2	1.5	1.2	1.1
Benzo[a]anthracene		U	2800	mg/kg	0.10	1.2	0.52	0.65	0.67	0.92	0.64	0.53
Chrysene		U	2800	mg/kg	0.10	1.3	0.57	0.77	0.77	0.92	0.70	0.66
Benzo[b]fluoranthene		U	2800	mg/kg	0.10	1.9	0.98	1.4	1.3	1.6	1.2	1.2
Benzo[k]fluoranthene		U	2800	mg/kg	0.10	0.80	0.35	0.47	0.43	0.52	0.37	0.35
Benzo[a]pyrene		U	2800	mg/kg	0.10	1.4	0.79	0.91	0.94	1.2	0.91	0.97
Indeno(1,2,3-c,d)Pyrene		U	2800	mg/kg	0.10	1.3	0.68	0.72	0.82	0.89	0.72	0.83
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.52	< 0.10	< 0.10	0.21	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		U	2800	mg/kg	0.10	1.3	0.68	0.78	0.88	0.92	0.86	0.87
Total Of 16 PAH's		N	2800	mg/kg	2.0	15	7.0	9.2	9.2	12	8.5	8.9

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293
Quotation No.: Q24-35340		Chemtest Sample ID.:	1856172	1856173	1856174	1856175	1856176	1856177	1856178	1856179		
Order No.: S3240		Client Sample Ref.:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12
		Client Sample ID.:	TSP12-25A	TSP12-26A	TSP12-27A	TSP12-28A	TSP12-29A	TSP12-30A	TSP12-31A	TSP12-32A		
		Sample Location:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12		
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Bottom Depth (m):	1.45	1.55	1.50	1.60	1.45	1.50	1.60	1.50		
		Date Sampled:	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024		
		Asbestos Lab:										
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	14	14	12	14	14	13	13
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	U	2690	mg/kg	2.00	5.3	19	4.6	18	3.9	3.9	5.1
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	U	2690	mg/kg	1.00	56	120	33	81	26	12	8.3
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	U	2690	mg/kg	2.00	86	150	38	94	38	26	22
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	U	2690	mg/kg	3.00	75	90	24	100	35	20	17
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	13	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	U	2690	mg/kg	5.00	220	380	100	300	100	61	52
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	220	380	100	310	100	61	52
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	5.5	< 1.0	2.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	8.2	28	6.1	11	6.6	1.1	1.1
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	42	55	32	39	25	22	19
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	16	21	13	9.6	16	24	13
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	14	19	2.5	6.5	5.6	5.9	3.5
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	67	110	51	61	47	47	33
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	81	130	54	68	53	53	37
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	290	490	150	360	150	110	85
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	300	510	150	380	160	110	89
Benzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				24-27293	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293
Quotation No.: Q24-35340		Chemtest Sample ID.:				1856172	1856173	1856174	1856175	1856176	1856177	1856178	1856179
Order No.: S3240		Client Sample Ref.:				TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12
		Client Sample ID.:				TSP12-25A	TSP12-26A	TSP12-27A	TSP12-28A	TSP12-29A	TSP12-30A	TSP12-31A	TSP12-32A
		Sample Location:				TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):				1.45	1.55	1.50	1.60	1.45	1.50	1.60	1.50
		Date Sampled:				21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024
		Asbestos Lab:											
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Naphthalene		U	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.17	0.22	0.17	0.20
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.11
Acenaphthene		U	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		U	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.14
Phenanthrene		U	2800	mg/kg	0.10	< 0.10	0.53	0.66	0.76	0.47	0.92	0.66	0.76
Anthracene		U	2800	mg/kg	0.10	< 0.10	0.20	< 0.10	0.30	0.20	0.35	< 0.10	0.26
Fluoranthene		U	2800	mg/kg	0.10	2.1	1.5	2.0	2.1	1.5	2.5	1.9	1.6
Pyrene		U	2800	mg/kg	0.10	1.9	1.2	2.0	1.9	1.4	2.1	1.8	1.5
Benzo[a]anthracene		U	2800	mg/kg	0.10	< 0.10	0.73	0.98	1.0	0.76	1.2	1.1	0.92
Chrysene		U	2800	mg/kg	0.10	< 0.10	0.72	1.2	1.0	0.90	1.3	1.3	0.87
Benzo[b]fluoranthene		U	2800	mg/kg	0.10	< 0.10	1.3	1.8	1.7	1.5	2.2	2.0	1.8
Benzo[k]fluoranthene		U	2800	mg/kg	0.10	< 0.10	0.43	0.61	0.54	0.51	0.69	0.74	0.61
Benzo[a]pyrene		U	2800	mg/kg	0.10	< 0.10	1.1	1.2	1.3	1.2	1.7	1.6	1.4
Indeno(1,2,3-c,d)Pyrene		U	2800	mg/kg	0.10	< 0.10	0.80	1.2	1.1	0.85	1.3	1.1	1.1
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.27	0.23	< 0.10
Benzo[g,h,i]perylene		U	2800	mg/kg	0.10	< 0.10	0.94	1.2	1.1	1.0	1.3	1.2	1.1
Total Of 16 PAH's		N	2800	mg/kg	2.0	4.0	9.5	13	13	11	16	14	12

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293
Quotation No.: Q24-35340		Chemtest Sample ID.:	1856180	1856181	1856182	1856183	1856184	1856185	1856186	1856187	1856188	1856189
Order No.: S3240		Client Sample Ref.:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12
		Client Sample ID.:	TSP12-33A	TSP12-34A	TSP12-35A	TSP12-36A	TSP12-37A	TSP12-38A	TSP12-39A	TSP12-40A	TSP12-41A	TSP12-42A
		Sample Location:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	1.45	1.50	1.65	1.55	1.35	1.45	1.60	1.40	1.50	1.60
		Date Sampled:	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024
		Asbestos Lab:										
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	15	18	17	18	17	13	6.3
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	U	2690	mg/kg	2.00	3.5	5.0	4.3	4.7	2.9	4.5	3.8
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	U	2690	mg/kg	1.00	3.6	16	16	23	7.9	7.5	15
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	U	2690	mg/kg	2.00	15	35	36	46	77	19	30
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	U	2690	mg/kg	3.00	11	24	23	30	90	13	29
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	U	2690	mg/kg	5.00	33	80	80	100	180	45	31
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	33	80	80	100	180	45	31
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	4.9	3.6	4.8	< 1.0	1.6	4.5
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	16	30	30	34	8.8	21	13
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	9.7	23	23	27	8.6	13	4.1
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	1.0	5.9	12	16	5.0	3.4	< 1.0
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	25	58	56	65	17	36	18
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	26	63	68	81	22	40	18
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	58	140	140	170	200	81	48
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	59	140	150	180	200	84	48
Benzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293
Quotation No.: Q24-35340		Chemtest Sample ID.:	1856180	1856181	1856182	1856183	1856184	1856185	1856186	1856187		
Order No.: S3240		Client Sample Ref.:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12		
		Client Sample ID.:	TSP12-33A	TSP12-34A	TSP12-35A	TSP12-36A	TSP12-37A	TSP12-38A	TSP12-39A	TSP12-40A		
		Sample Location:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12		
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Bottom Depth (m):	1.45	1.50	1.65	1.55	1.35	1.45	1.60	1.40		
		Date Sampled:	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024		
		Asbestos Lab:										
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Naphthalene		U	2800	mg/kg	0.10	0.21	< 0.10	< 0.10	0.17	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		U	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		U	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		U	2800	mg/kg	0.10	0.53	0.41	0.93	0.51	0.56	0.98	0.65
Anthracene		U	2800	mg/kg	0.10	0.21	< 0.10	0.37	0.18	< 0.10	< 0.10	0.26
Fluoranthene		U	2800	mg/kg	0.10	1.4	1.1	2.3	1.5	1.8	2.0	2.3
Pyrene		U	2800	mg/kg	0.10	1.2	1.0	2.1	1.4	1.6	2.1	1.9
Benzo[a]anthracene		U	2800	mg/kg	0.10	0.75	0.70	1.0	0.86	0.92	< 0.10	1.2
Chrysene		U	2800	mg/kg	0.10	0.75	0.69	1.2	0.85	0.93	< 0.10	1.3
Benzo[b]fluoranthene		U	2800	mg/kg	0.10	1.3	1.1	2.0	1.5	1.7	< 0.10	1.9
Benzo[k]fluoranthene		U	2800	mg/kg	0.10	0.40	0.35	0.62	0.52	0.45	< 0.10	0.71
Benzo[a]pyrene		U	2800	mg/kg	0.10	1.1	0.87	1.4	1.4	1.4	< 0.10	1.5
Indeno(1,2,3-c,d)Pyrene		U	2800	mg/kg	0.10	0.83	0.77	1.1	1.1	1.1	< 0.10	1.2
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		U	2800	mg/kg	0.10	0.99	0.85	1.3	1.1	1.1	< 0.10	1.3
Total Of 16 PAH's		N	2800	mg/kg	2.0	9.7	7.8	14	11	12	5.1	15

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2690	EPH A/A Split	Aliphatics: >C10-C12, >C12-C16, >C16-C21, >C21- C35, >C35- C40 Aromatics: >C10-C12, >C12-C16, >C16-C21, >C21- C35, >C35- C40	Acetone/Heptane extraction / GCxGC FID detection	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2780	VPH A/A Split	Aliphatics: >C5-C6, >C6-C7,>C7-C8,>C8-C10 Aromatics: >C5-C7,>C7-C8,>C8-C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request .

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

All Asbestos testing is performed at the indicated laboratory .

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

Sample Deviation Codes

-
- A - Date of sampling not supplied
 - B - Sample age exceeds stability time (sampling to extraction)
 - C - Sample not received in appropriate containers
 - D - Broken Container
 - E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

All water samples will be retained for 14 days from the date of receipt.

Charges may apply to extended sample storage.

Water Sample Category Key for Accreditation

-
- DW - Drinking Water
 - GW - Ground Water
 - LE - Land Leachate
 - NA - Not Applicable

Report Information

PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com



Chemtest
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.: 24-28144-1
Initial Date of Issue: 05-Sep-2024

Re-Issue Details:

Client: Sanctus Limited
Client Address: 1 Olympus Park Business Centre
Quedgeley
Gloucester
Gloucestershire
GL2 4DH

Contact(s): Labs

Project: S3240 Ardrossan North Shore

Quotation No.: Q24-35340

Date Received: 02-Sep-2024

Order No.: S3240

Date Instructed: 02-Sep-2024

No. of Samples: 40

Turnaround (Wkdays): 4

Results Due: 05-Sep-2024

Date Approved: 05-Sep-2024

Subcon Results Due: 05-Sep-2024

Approved By:



Details: [Redacted] Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144
Quotation No.: Q24-35340		Chemtest Sample ID.:	1859745	1859746	1859747	1859748	1859749	1859750	1859751	1859752	
Order No.: S3240		Client Sample Ref.:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12
		Client Sample ID.:	TSP12-01B	TSP12-02B	TSP12-03B	TSP12-04B	TSP12-05B	TSP12-06B	TSP12-07B	TSP12-08B	
		Sample Location:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):	0	0	0	0	0	0	0	0	
		Bottom Depth (m):	1.75	1.80	1.95	1.75	1.45	1.80	1.90	1.75	
		Date Sampled:	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	
Determinand	HWOL Code	Accred.	SOP	Units	LOD						
Moisture		N	2030	%	0.020	11	10	13	9.7	23	13
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C8-C10 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	3.8	3.5	3.4	17	4.0	3.5
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	17	14	30	54	15	6.3
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	50	47	76	100	74	57
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	40	30	61	90	62	65
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10	16	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	110	95	170	260	160	130
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	110	95	170	260	170	130
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	4.2	2.7	7.2	4.7	2.6	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	40	30	29	20	17	5.1
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	33	31	26	15	26	9.3
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	40	38	22	57	54	3.2
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	78	63	63	40	46	14
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	120	100	85	97	100	18
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	190	160	230	300	200	150
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	230	200	250	360	270	150
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	< 0.10	0.12	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144
Quotation No.: Q24-35340		Chemtest Sample ID.:	1859745	1859746	1859747	1859748	1859749	1859750	1859751	1859752		
Order No.: S3240		Client Sample Ref.:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12
		Client Sample ID.:	TSP12-01B	TSP12-02B	TSP12-03B	TSP12-04B	TSP12-05B	TSP12-06B	TSP12-07B	TSP12-08B		
		Sample Location:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12		
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):	0	0	0	0	0	0	0	0		
		Bottom Depth (m):	1.75	1.80	1.95	1.75	1.45	1.80	1.90	1.75		
		Date Sampled:	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024		
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.34	0.15	0.40	0.20	0.25	0.23	1.0
Anthracene		M	2800	mg/kg	0.10	0.18	0.10	0.22	0.15	0.13	0.13	0.37
Fluoranthene		M	2800	mg/kg	0.10	0.68	0.68	1.3	0.75	0.76	0.69	1.8
Pyrene		M	2800	mg/kg	0.10	0.73	0.73	1.2	0.79	0.70	0.78	1.6
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.40	0.38	0.71	0.42	0.42	0.42	0.88
Chrysene		M	2800	mg/kg	0.10	0.42	0.40	0.66	0.54	0.38	0.44	0.84
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	0.72	0.74	0.96	0.95	0.68	0.73	1.2
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.27	0.22	0.33	0.29	0.23	0.24	0.51
Benzo[a]pyrene		M	2800	mg/kg	0.10	0.58	0.67	0.79	0.78	0.62	0.65	1.1
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.54	0.48	0.62	0.56	0.44	0.57	0.87
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.23
Benzo(g,h,i)perylene		M	2800	mg/kg	0.10	0.52	0.55	0.56	0.67	0.44	0.51	0.83
Total Of 16 PAH's		N	2800	mg/kg	2.0	5.4	5.2	7.8	6.1	5.1	5.4	11

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144
Quotation No.: Q24-35340		Chemtest Sample ID.:	1859753	1859754	1859755	1859756	1859757	1859758	1859759	1859760		
Order No.: S3240		Client Sample Ref.:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12
		Client Sample ID.:	TSP12-09B	TSP12-10B	TSP12-11B	TSP12-12B	TSP12-13B	TSP12-14B	TSP12-15B	TSP12-16B		
		Sample Location:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12		
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):	0	0	0	0	0	0	0	0		
		Bottom Depth (m):	1.90	1.80	1.75	2.05	1.60	1.45	1.80	1.85		
		Date Sampled:	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024		
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	13	8.3	13	14	14	15	14
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	4.2	2.9	3.6	11	3.3	4.6	3.5
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	24	5.4	16	50	8.4	39	6.7
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	110	45	84	140	59	100	59
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	80	37	86	150	56	110	64
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	15	< 10	< 10	15	< 10	13	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	210	90	190	360	130	250	130
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	230	90	190	370	130	270	130
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	1.6	< 1.0	< 1.0	8.0	< 1.0	2.8	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	27	6.2	11	22	16	21	7.0
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	28	16	9.7	13	18	10	9.5
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	61	51	24	30	4.4	11	8.1
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	56	22	22	43	34	34	17
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	120	73	46	73	38	45	25
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	270	110	210	400	160	290	150
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	350	160	240	440	170	310	160
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144
Quotation No.: Q24-35340		Chemtest Sample ID.:	1859753	1859754	1859755	1859756	1859757	1859758	1859759	1859760		
Order No.: S3240		Client Sample Ref.:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12		
		Client Sample ID.:	TSP12-09B	TSP12-10B	TSP12-11B	TSP12-12B	TSP12-13B	TSP12-14B	TSP12-15B	TSP12-16B		
		Sample Location:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12		
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):	0	0	0	0	0	0	0	0		
		Bottom Depth (m):	1.90	1.80	1.75	2.05	1.60	1.45	1.80	1.85		
		Date Sampled:	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024		
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.21	0.51	0.36	< 0.10	0.27	0.35	0.68
Anthracene		M	2800	mg/kg	0.10	0.13	< 0.10	0.22	< 0.10	0.16	< 0.10	0.36
Fluoranthene		M	2800	mg/kg	0.10	0.60	1.0	1.3	1.1	1.0	1.3	3.4
Pyrene		M	2800	mg/kg	0.10	0.66	0.95	1.2	1.1	1.0	1.1	3.0
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.38	0.59	0.59	0.68	0.58	0.70	1.5
Chrysene		M	2800	mg/kg	0.10	0.44	0.62	0.68	0.62	0.58	0.77	1.4
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	0.82	0.93	1.1	1.2	1.2	1.1	2.3
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.27	0.34	0.41	0.44	0.37	0.43	0.83
Benzo[a]pyrene		M	2800	mg/kg	0.10	0.65	0.77	1.0	1.0	0.94	1.0	1.9
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.54	0.57	0.74	0.74	0.74	0.81	1.3
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.55	0.58	0.71	0.81	0.74	0.83	1.3
Total Of 16 PAH's		N	2800	mg/kg	2.0	5.4	6.9	8.3	7.7	7.6	8.4	18

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144
Quotation No.: Q24-35340		Chemtest Sample ID.:	1859761	1859762	1859763	1859764	1859765	1859766	1859767	1859768		
Order No.: S3240		Client Sample Ref.:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12
		Client Sample ID.:	TSP12-17B	TSP12-18B	TSP12-19B	TSP12-20B	TSP12-21B	TSP12-22B	TSP12-23B	TSP12-24B		
		Sample Location:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12		
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):	0	0	0	0	0	0	0	0		
		Bottom Depth (m):	1.90	1.75	1.90	1.65	1.70	1.75	1.65	1.60		
		Date Sampled:	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024		
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	13	14	13	13	13	14	15
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	24	3.5	3.3	< 2.0	< 2.0	3.1	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	91	7.6	11	2.4	1.9	7.1	13
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	160	75	94	32	29	51	47
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	200	79	97	90	22	55	36
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	24	< 10	24	34	< 10	13	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	470	170	210	130	54	120	97
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	500	170	230	160	54	130	97
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	6.7	< 1.0	< 1.0	1.4	1.5	2.6	2.2
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	39	11	13	13	8.0	25	19
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	3.5	11	29	25	4.0	12	14
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	12	6.4	54	23	< 1.0	5.5	< 1.0
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	51	21	42	39	13	40	36
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	62	28	96	62	13	46	36
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	520	190	250	160	68	160	130
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	560	190	330	220	68	170	130
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.20

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144
Quotation No.: Q24-35340		Chemtest Sample ID.:	1859761	1859762	1859763	1859764	1859765	1859766	1859767	1859768		
Order No.: S3240		Client Sample Ref.:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12
		Client Sample ID.:	TSP12-17B	TSP12-18B	TSP12-19B	TSP12-20B	TSP12-21B	TSP12-22B	TSP12-23B	TSP12-24B		
		Sample Location:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12		
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):	0	0	0	0	0	0	0	0		
		Bottom Depth (m):	1.90	1.75	1.90	1.65	1.70	1.75	1.65	1.60		
		Date Sampled:	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024		
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.2	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.3	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.19	0.29	0.21	0.51	0.35	9.9	0.88
Anthracene		M	2800	mg/kg	0.10	0.12	< 0.10	< 0.10	0.33	0.18	2.2	0.36
Fluoranthene		M	2800	mg/kg	0.10	0.60	0.96	0.98	1.7	0.91	11	2.9
Pyrene		M	2800	mg/kg	0.10	0.62	0.94	0.99	1.6	0.85	8.4	2.5
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.38	0.58	0.50	1.1	0.51	4.1	1.4
Chrysene		M	2800	mg/kg	0.10	0.36	0.58	0.57	1.1	0.54	4.0	1.3
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	0.61	1.0	0.96	1.7	0.99	4.8	1.9
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.19	0.34	0.34	0.72	0.33	2.4	0.69
Benzo[a]pyrene		M	2800	mg/kg	0.10	0.53	1.0	0.84	1.6	0.76	4.1	1.7
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.41	0.70	0.66	1.3	0.61	3.0	1.2
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	0.14	< 0.10	0.48	0.13	1.4	0.22
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.42	0.70	0.69	1.3	0.67	2.7	1.2
Total Of 16 PAH's		N	2800	mg/kg	2.0	4.4	7.2	6.7	13	6.8	61	16

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144
Quotation No.: Q24-35340		Chemtest Sample ID.:	1859769	1859770	1859771	1859772	1859773	1859774	1859775	1859776		
Order No.: S3240		Client Sample Ref.:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12
		Client Sample ID.:	TSP12-25B	TSP12-26B	TSP12-27B	TSP12-28B	TSP12-29B	TSP12-30B	TSP12-31B	TSP12-32B		
		Sample Location:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12		
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):	0	0	0	0	0	0	0	0		
		Bottom Depth (m):	1.80	1.85	1.75	1.90	1.95	1.55	1.70	1.80		
		Date Sampled:	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024		
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	14	15	17	16	6.8	15	13
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.14	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	3.7	3.7	3.2	2.8	2.3	9.5	3.8
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	20	13	10	22	6.7	110	15
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	85	42	67	86	33	260	69
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	74	28	66	69	28	280	54
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10	< 10	46	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	180	87	150	180	70	660	140
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	180	87	150	180	70	700	140
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.9	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	1.5	22	1.4	3.8	< 1.0	21	2.3
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	20	69	11	15	8.8	72	26
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	26	60	17	14	13	14	30
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	59	28	27	21	18	17	27
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	47	150	30	33	22	110	59
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	110	180	57	53	40	130	85
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	230	240	180	210	92	770	200
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	290	270	200	230	110	830	230
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144
Quotation No.: Q24-35340		Chemtest Sample ID.:	1859769	1859770	1859771	1859772	1859773	1859774	1859775	1859776			
Order No.: S3240		Client Sample Ref.:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12
		Client Sample ID.:	TSP12-25B	TSP12-26B	TSP12-27B	TSP12-28B	TSP12-29B	TSP12-30B	TSP12-31B	TSP12-32B			
		Sample Location:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12			
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
		Top Depth (m):	0	0	0	0	0	0	0	0			
		Bottom Depth (m):	1.80	1.85	1.75	1.90	1.95	1.55	1.70	1.80			
		Date Sampled:	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024			
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.43	0.32	0.43	1.1	0.25	2.0	< 0.10	0.22
Anthracene		M	2800	mg/kg	0.10	< 0.10	0.17	< 0.10	0.27	< 0.10	0.71	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	1.2	1.6	1.1	1.9	0.73	4.9	1.1	0.80
Pyrene		M	2800	mg/kg	0.10	1.1	1.3	1.0	1.6	0.71	4.0	0.98	0.80
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.65	0.80	0.69	0.82	< 0.10	2.1	0.52	0.48
Chrysene		M	2800	mg/kg	0.10	0.59	0.75	0.71	0.80	< 0.10	1.9	0.59	0.51
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.1	1.2	0.91	1.2	< 0.10	2.7	1.0	0.86
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.37	0.39	0.39	0.39	< 0.10	0.93	0.35	0.32
Benzo[a]pyrene		M	2800	mg/kg	0.10	0.96	1.0	0.90	0.99	< 0.10	2.1	0.84	0.69
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.65	0.71	0.61	0.72	< 0.10	1.4	0.63	0.63
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.14	< 0.10	0.26	< 0.10	< 0.10
Benzo(g,h,i)perylene		M	2800	mg/kg	0.10	0.86	0.70	0.64	0.74	< 0.10	1.5	0.71	0.56
Total Of 16 PAH's		N	2800	mg/kg	2.0	7.9	8.9	7.4	11	< 2.0	25	6.7	5.9

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144
Quotation No.: Q24-35340		Chemtest Sample ID.:	1859777	1859778	1859779	1859780	1859781	1859782	1859783	1859784		
Order No.: S3240		Client Sample Ref.:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12
		Client Sample ID.:	TSP12-33B	TSP12-34B	TSP12-35B	TSP12-36B	TSP12-37B	TSP12-38B	TSP12-39B	TSP12-40B		
		Sample Location:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12		
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):	0	0	0	0	0	0	0	0		
		Bottom Depth (m):	1.65	1.70	1.55	1.80	1.75	1.80	1.95	1.70		
		Date Sampled:	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024		
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	16	13	13	14	14	14	14
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	3.1	4.3	2.7	4.3	3.6	3.3	4.7
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	11	18	9.3	33	16	22	18
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	94	94	61	110	57	80	64
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	68	40	56	110	43	81	66
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	10	< 10	16	11
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	180	160	130	250	120	190	160
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	180	160	130	260	120	200	170
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	1.6	7.9	1.7	4.0	3.3	6.5	3.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	11	14	15	25	35	50	23
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	12	15	24	25	45	52	26
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	59	73	38	22	17	29	45
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	24	38	42	54	83	110	52
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	84	110	80	76	100	140	97
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	200	190	170	300	200	300	210
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	260	270	210	340	220	340	260
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	0.13	< 0.10	0.11	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144
Quotation No.: Q24-35340		Chemtest Sample ID.:	1859777	1859778	1859779	1859780	1859781	1859782	1859783	1859784		
Order No.: S3240		Client Sample Ref.:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12		
		Client Sample ID.:	TSP12-33B	TSP12-34B	TSP12-35B	TSP12-36B	TSP12-37B	TSP12-38B	TSP12-39B	TSP12-40B		
		Sample Location:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12		
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):	0	0	0	0	0	0	0	0		
		Bottom Depth (m):	1.65	1.70	1.55	1.80	1.75	1.80	1.95	1.70		
		Date Sampled:	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024		
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.11
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.22
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.14
Phenanthrene		M	2800	mg/kg	0.10	1.1	0.49	1.1	0.29	0.31	0.31	2.1
Anthracene		M	2800	mg/kg	0.10	0.36	< 0.10	0.40	0.17	< 0.10	0.19	0.68
Fluoranthene		M	2800	mg/kg	0.10	1.7	1.6	2.5	1.1	1.0	1.1	4.3
Pyrene		M	2800	mg/kg	0.10	1.5	1.4	2.3	1.1	1.0	1.0	3.5
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.70	0.75	1.4	0.57	0.55	0.61	1.7
Chrysene		M	2800	mg/kg	0.10	0.66	0.76	1.3	0.61	0.53	0.63	1.7
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.2	1.2	2.3	1.1	1.1	1.1	2.2
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.40	0.37	0.68	0.32	0.38	0.36	0.75
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.0	1.0	2.0	0.92	0.91	0.88	1.9
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.75	0.80	1.4	0.70	0.75	0.73	1.4
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.12	0.22
Benzo(g,h,i)perylene		M	2800	mg/kg	0.10	0.83	0.83	1.4	0.71	0.78	0.74	1.4
Total Of 16 PAH's		N	2800	mg/kg	2.0	10	9.2	17	7.6	7.3	7.8	22

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2030	Moisture and Stone Content of Soils (Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description (Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35–C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35–C40	Acetone/Heptane extraction / GCxGC FID detection	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics. (cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7, >C7–C8, >C8–C10 Aromatics: >C5–C7, >C7–C8, >C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenzo[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request .

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

All Asbestos testing is performed at the indicated laboratory .

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

All water samples will be retained for 14 days from the date of receipt.

Charges may apply to extended sample storage.

Water Sample Category Key for Accreditation

- DW - Drinking Water
- GW - Ground Water
- LE - Land Leachate
- NA - Not Applicable

Report Information

PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com



Chemtest
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.: 24-28559-1

Initial Date of Issue: 10-Sep-2024

Re-Issue Details:

Client Sanctus Limited

Client Address: 1 Olympus Park Business Centre
Quedgeley
Gloucester
Gloucestershire
GL2 4DH

Contact(s): Labs

Project S3240 Ardrossan North Shore

Quotation No.: Q24-35340

Date Received: 05-Sep-2024

Order No.: S3240

Date Instructed: 05-Sep-2024

No. of Samples: 40

Turnaround (Wkdays): 4

Results Due: 10-Sep-2024

Date Approved: 10-Sep-2024

Approved By:



Details: [Redacted] Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559
Quotation No.: Q24-35340		Chemtest Sample ID.:	1861882	1861883	1861884	1861885	1861886	1861887	1861888	1861889		
Order No.: S3240		Client Sample Ref.:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12
		Client Sample ID.:	TSP12-01C	TSP12-02C	TSP12-03C	TSP12-04C	TSP12-05C	TSP12-06C	TSP12-07C	TSP12-08C		
		Sample Location:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12		
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Bottom Depth (m):	1.70	1.75	1.65	1.60	1.80	1.85	1.75	1.90		
		Date Sampled:	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024		
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	12	12	12	13	12	13	11
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones and Brick	Stones and Roots	Stones	Stones	Stones	Stones and Roots
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	80	100	87	100	< 1.0	72	59
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	240	240	210	210	40	160	130
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	140	190	130	150	< 3.0	120	92
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	25	32	23	24	< 10	21	22
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	460	530	420	460	41	350	280
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	490	560	450	490	41	370	310
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	0.14	< 0.05	< 0.05	< 0.05	0.14	0.13	0.12
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	23	29	27	30	< 1.0	29	33
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	55	93	120	87	6.1	73	59
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	47	42	110	45	< 2.0	30	29
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	19	28	19	28	< 1.0	3.2	3.3
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	130	160	250	160	6.3	130	120
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	140	190	270	190	< 10	140	120
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	590	690	670	620	47	480	400
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	630	750	720	680	47	500	430
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559
Quotation No.: Q24-35340		Chemtest Sample ID.:	1861882	1861883	1861884	1861885	1861886	1861887	1861888	1861889			
Order No.: S3240		Client Sample Ref.:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12
		Client Sample ID.:	TSP12-01C	TSP12-02C	TSP12-03C	TSP12-04C	TSP12-05C	TSP12-06C	TSP12-07C	TSP12-08C			
		Sample Location:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12			
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
		Bottom Depth (m):	1.70	1.75	1.65	1.60	1.80	1.85	1.75	1.90			
		Date Sampled:	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024			
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Naphthalene		M	2800	mg/kg	0.10	0.32	< 0.10	< 0.10	< 0.10	0.35	0.31	0.23	0.17
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.51	< 0.10	0.47	0.32	0.72	0.64	0.32	0.49
Anthracene		M	2800	mg/kg	0.10	0.44	< 0.10	0.30	< 0.10	0.34	0.34	0.16	0.48
Fluoranthene		M	2800	mg/kg	0.10	1.9	0.92	1.9	0.89	2.0	2.2	1.0	1.3
Pyrene		M	2800	mg/kg	0.10	1.8	0.93	1.7	0.88	1.8	2.0	0.94	1.3
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.99	0.50	0.88	0.42	0.99	1.1	0.42	0.77
Chrysene		M	2800	mg/kg	0.10	1.0	0.63	0.89	0.59	0.92	1.1	< 0.10	0.98
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.7	0.92	1.5	0.95	1.7	1.9	< 0.10	1.5
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.56	0.29	0.51	0.41	0.62	0.64	< 0.10	0.65
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.3	0.86	1.2	0.77	1.4	1.5	< 0.10	1.1
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.96	0.56	0.79	0.69	0.98	1.1	< 0.10	0.91
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.37
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.96	0.68	0.84	0.62	1.0	1.1	< 0.10	1.0
Total Of 16 PAH's		N	2800	mg/kg	2.0	12	6.3	11	6.5	13	14	3.1	11

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559
Quotation No.: Q24-35340		Chemtest Sample ID.:	1861890	1861891	1861892	1861893	1861894	1861895	1861896	1861897			
Order No.: S3240		Client Sample Ref.:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12
		Client Sample ID.:	TSP12-09C	TSP12-10C	TSP12-11C	TSP12-12C	TSP12-13C	TSP12-14C	TSP12-15C	TSP12-16C			
		Sample Location:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	1.95	1.55	1.70	1.80	1.65	1.70	1.55	1.80			
		Date Sampled:	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Moisture		N	2030	%	0.020	12	13	12	12	6.3	12	13	12
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	2.4	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	100	36	55	120	69	52	150	79
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	190	99	130	230	140	130	230	170
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	150	60	85	170	80	66	180	110
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	23	< 10	< 10	20	< 10	< 10	45	26
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	440	200	270	520	290	250	570	370
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	460	200	270	540	290	250	620	390
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	0.14	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	20	15	28	37	21	27	37	30
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	58	35	41	69	40	53	86	55
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	47	21	17	39	22	27	56	31
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	8.0	< 1.0	< 1.0	6.2	1.4	< 1.0	35	9.0
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	120	71	86	140	83	110	180	120
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	130	71	86	150	84	110	210	120
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	570	270	350	670	370	350	750	480
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	600	270	350	690	370	350	830	520
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559
Quotation No.: Q24-35340		Chemtest Sample ID.:	1861890	1861891	1861892	1861893	1861894	1861895	1861896	1861897			
Order No.: S3240		Client Sample Ref.:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12
		Client Sample ID.:	TSP12-09C	TSP12-10C	TSP12-11C	TSP12-12C	TSP12-13C	TSP12-14C	TSP12-15C	TSP12-16C			
		Sample Location:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12			
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
		Bottom Depth (m):	1.95	1.55	1.70	1.80	1.65	1.70	1.55	1.80			
		Date Sampled:	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024			
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Naphthalene		M	2800	mg/kg	0.10	0.23	< 0.10	0.26	< 0.10	0.29	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.36	0.39	1.7	0.29	0.75	0.37	0.49	1.1
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	1.1	< 0.10	0.42	0.64	0.32	0.37
Fluoranthene		M	2800	mg/kg	0.10	1.1	1.3	7.2	0.84	2.1	1.5	1.7	2.0
Pyrene		M	2800	mg/kg	0.10	1.0	1.2	6.1	0.83	1.9	1.5	1.8	1.8
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.49	0.57	3.2	< 0.10	0.98	0.77	1.2	0.88
Chrysene		M	2800	mg/kg	0.10	0.69	0.70	3.1	< 0.10	1.0	0.84	1.3	0.83
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.0	1.2	4.4	< 0.10	1.6	1.5	2.6	1.4
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.33	0.45	1.7	< 0.10	0.75	0.50	0.84	0.55
Benzo[a]pyrene		M	2800	mg/kg	0.10	0.85	0.95	3.8	< 0.10	1.2	1.1	2.1	1.2
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.67	0.69	2.5	< 0.10	0.84	0.90	1.5	0.86
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	0.47	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.71	0.72	2.3	< 0.10	0.85	0.84	1.3	0.87
Total Of 16 PAH's		N	2800	mg/kg	2.0	7.4	8.2	38	< 2.0	13	11	15	12

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559
Quotation No.: Q24-35340		Chemtest Sample ID.:	1861898	1861899	1861900	1861901	1861902	1861903	1861904	1861905		
Order No.: S3240		Client Sample Ref.:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12
		Client Sample ID.:	TSP12-17C	TSP12-18C	TSP12-19C	TSP12-20C	TSP12-21C	TSP12-22C	TSP12-23C	TSP12-24C		
		Sample Location:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	1.75	1.80	1.95	1.70	1.65	1.70	1.80	1.95		
		Date Sampled:	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	12	12	12	12	12	11	14
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0	2.1	13	10	12
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	93	56	120	120	89	98	130
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	200	100	310	250	210	270	230
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	150	63	230	240	130	200	160
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	23	15	36	47	22	18	10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	440	220	660	610	440	580	540
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	460	240	690	660	460	600	550
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	0.12	< 0.05	0.12	0.12	0.13	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	28	20	25	28	13	15	19
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	75	41	76	83	54	52	66
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	39	16	40	34	42	49	44
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	3.0	1.3	24	22	39	61	54
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	140	77	140	140	110	120	130
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	140	78	160	170	150	180	180
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	580	300	800	760	550	700	660
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	610	310	860	830	610	780	730
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559
Quotation No.: Q24-35340		Chemtest Sample ID.:	1861898	1861899	1861900	1861901	1861902	1861903	1861904	1861905		
Order No.: S3240		Client Sample Ref.:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12		
		Client Sample ID.:	TSP12-17C	TSP12-18C	TSP12-19C	TSP12-20C	TSP12-21C	TSP12-22C	TSP12-23C	TSP12-24C		
		Sample Location:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12		
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Bottom Depth (m):	1.75	1.80	1.95	1.70	1.65	1.70	1.80	1.95		
		Date Sampled:	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024		
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Naphthalene		M	2800	mg/kg	0.10	0.18	< 0.10	0.25	< 0.10	0.30	< 0.10	0.31
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	0.33	0.54	0.26	0.79	0.42	0.50
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.26	0.21
Fluoranthene		M	2800	mg/kg	0.10	0.88	0.99	1.5	0.70	1.6	1.2	1.5
Pyrene		M	2800	mg/kg	0.10	0.98	0.98	1.3	0.76	1.4	1.3	1.4
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.62	0.55	0.68	0.41	0.78	0.70	0.77
Chrysene		M	2800	mg/kg	0.10	0.67	0.65	0.74	0.55	0.92	0.85	0.87
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.1	1.1	1.4	0.80	1.5	1.5	1.4
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.43	0.37	0.52	0.32	0.48	0.52	0.46
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.0	0.83	1.2	0.62	1.1	1.1	1.1
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.65	0.59	0.96	0.49	0.83	0.93	0.84
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.78	0.64	0.89	0.49	0.94	0.91	0.88
Total Of 16 PAH's		N	2800	mg/kg	2.0	7.3	7.0	10	5.4	11	9.7	10

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559
Quotation No.: Q24-35340		Chemtest Sample ID.:	1861906	1861907	1861908	1861909	1861910	1861911	1861912		
Order No.: S3240		Client Sample Ref.:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12
		Client Sample ID.:	TSP12-25C	TSP12-26C	TSP12-27C	TSP12-28C	TSP12-29C	TSP12-30C	TSP12-31C		
		Sample Location:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12		
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Bottom Depth (m):	1.80	1.75	1.75	1.90	1.95	1.80	1.55		
		Date Sampled:	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024		
Determinand	HWOL Code	Accred.	SQP	Units	LOD						
Moisture		N	2030	%	0.020	12	12	12	12	12	13
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones and Roots	Stones, Roots and Brick	Stones, Roots and Brick	Stones and Roots	Stones and Roots	Stones and Roots
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	15	9.6	27	14	15	30
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	130	86	170	140	120	180
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	350	220	390	270	330	520
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	240	160	280	250	240	440
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	14	22	48	< 10	28
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	740	470	860	680	700	920
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	740	490	890	720	700	950
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	1.8	1.5	< 1.0	1.9
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	19	12	27	18	18	27
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	65	46	71	60	59	73
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	58	43	67	83	67	110
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	100	42	81	110	95	210
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	140	100	170	160	140	210
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	250	140	250	270	240	420
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	880	570	1000	840	850	1100
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	980	630	1100	990	940	1400
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559
Quotation No.: Q24-35340		Chemtest Sample ID.:	1861906	1861907	1861908	1861909	1861910	1861911	1861912		
Order No.: S3240		Client Sample Ref.:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12		
		Client Sample ID.:	TSP12-25C	TSP12-26C	TSP12-27C	TSP12-28C	TSP12-29C	TSP12-30C	TSP12-31C		
		Sample Location:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12		
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Bottom Depth (m):	1.80	1.75	1.75	1.90	1.95	1.80	1.55		
		Date Sampled:	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024		
Determinand	HWOL Code	Accred.	SOP	Units	LOD						
Naphthalene		M	2800	mg/kg	0.10	0.19	0.31	1.2	0.16	0.20	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	0.15	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	0.11	0.52	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	0.14	0.48	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.71	0.52	1.5	0.33	0.60	0.73
Anthracene		M	2800	mg/kg	0.10	0.35	0.20	0.49	0.19	0.21	0.27
Fluoranthene		M	2800	mg/kg	0.10	2.2	1.3	2.3	1.5	1.8	2.0
Pyrene		M	2800	mg/kg	0.10	1.9	1.1	1.9	1.3	1.6	1.8
Benzo[a]anthracene		M	2800	mg/kg	0.10	1.1	0.66	1.0	0.85	0.87	0.90
Chrysene		M	2800	mg/kg	0.10	1.1	0.57	1.0	0.91	0.67	0.97
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.8	1.2	1.6	1.3	1.4	1.4
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.57	0.44	0.64	0.44	0.48	0.55
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.3	0.88	1.4	0.98	1.1	1.4
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.99	0.74	0.94	0.69	0.79	0.85
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.18	0.18	0.26	0.13	0.13	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	1.0	0.83	0.96	0.78	0.86	0.96
Total Of 16 PAH's		N	2800	mg/kg	2.0	13	9.3	16	9.6	11	12

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559
Quotation No.: Q24-35340		Chemtest Sample ID.:	1861913	1861914	1861915	1861916	1861917	1861918	1861919		
Order No.: S3240		Client Sample Ref.:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12
		Client Sample ID.:	TSP12-32C	TSP12-33C	TSP12-34C	TSP12-35C	TSP12-36C	TSP12-37C	TSP12-38C		
		Sample Location:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12		
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Bottom Depth (m):	1.60	1.70	1.80	1.65	1.60	1.85	1.60		
		Date Sampled:	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024		
Determinand	HWOL Code	Accred.	SOP	Units	LOD						
Moisture		N	2030	%	0.020	12	9.0	13	12	11	12
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones and Roots	Stones, Roots and Brick	Stones and Roots	Stones, Roots and Brick	Stones and Roots	Stones, Roots and Wood
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	7.7	3.3	4.6	20	12	13
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	77	52	68	84	99	100
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	170	95	110	190	270	290
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	110	72	80	110	200	210
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	12	13	< 10	13	14
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	360	220	270	400	580	610
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	360	230	280	400	600	630
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	1.8	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	7.9	7.0	6.0	20	12	16
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	27	26	35	53	59	47
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	34	24	32	44	58	44
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	44	29	36	97	60	59
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	69	57	73	120	130	110
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	110	87	110	220	190	170
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	430	280	340	520	710	720
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	470	320	390	620	790	790
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559
Quotation No.: Q24-35340		Chemtest Sample ID.:	1861913	1861914	1861915	1861916	1861917	1861918	1861919	1861919	1861919
Order No.: S3240		Client Sample Ref.:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12
		Client Sample ID.:	TSP12-32C	TSP12-33C	TSP12-34C	TSP12-35C	TSP12-36C	TSP12-37C	TSP12-38C	TSP12-38C	TSP12-38C
		Sample Location:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	1.60	1.70	1.80	1.65	1.60	1.85	1.60	1.60	1.60
		Date Sampled:	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD						
Naphthalene		M	2800	mg/kg	0.10	0.35	0.21	< 0.10	0.24	0.20	0.19
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.44	0.43	1.2	0.28	0.37	0.35
Anthracene		M	2800	mg/kg	0.10	0.20	0.21	0.50	0.14	0.19	0.20
Fluoranthene		M	2800	mg/kg	0.10	1.7	1.6	2.8	0.85	1.1	1.0
Pyrene		M	2800	mg/kg	0.10	1.5	1.5	2.3	0.83	0.99	0.93
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.93	0.87	1.3	0.45	0.56	0.53
Chrysene		M	2800	mg/kg	0.10	0.91	0.84	1.3	0.54	0.58	0.44
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.5	1.5	2.0	1.1	1.0	0.97
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.51	0.58	0.72	0.32	0.31	0.29
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.3	1.1	1.6	0.86	0.81	0.76
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.85	0.78	1.0	0.65	0.63	0.58
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.17	0.20	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.80	0.80	1.1	0.68	0.67	0.67
Total Of 16 PAH's		N	2800	mg/kg	2.0	11	11	16	6.9	7.4	6.9

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				24-28559	24-28559
Quotation No.: Q24-35340		Chemtest Sample ID.:				1861920	1861921
Order No.: S3240		Client Sample Ref.:				TSP12	TSP12
		Client Sample ID.:				TSP12-39C	TSP12-40C
		Sample Location:				TSP12	TSP12
		Sample Type:				SOIL	SOIL
		Top Depth (m):				0.00	0.00
		Bottom Depth (m):				1.65	1.85
		Date Sampled:				03-Sep-2024	03-Sep-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Moisture		N	2030	%	0.020	12	12
Soil Colour		N	2040		N/A	Brown	Brown
Other Material		N	2040		N/A	Stones, Roots and Brick	Stones and Roots
Soil Texture		N	2040		N/A	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	9.3	15
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	78	130
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	190	350
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	130	270
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	17	11
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	410	760
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	420	770
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	12	19
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	42	61
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	28	56
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	32	92
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	82	140
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	110	230
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	490	890
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	540	1000
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				24-28559	24-28559
Quotation No.: Q24-35340		Chemtest Sample ID.:				1861920	1861921
Order No.: S3240		Client Sample Ref.:				TSP12	TSP12
		Client Sample ID.:				TSP12-39C	TSP12-40C
		Sample Location:				TSP12	TSP12
		Sample Type:				SOIL	SOIL
		Top Depth (m):				0.00	0.00
		Bottom Depth (m):				1.65	1.85
		Date Sampled:				03-Sep-2024	03-Sep-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Naphthalene		M	2800	mg/kg	0.10	0.18	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.39	0.20
Anthracene		M	2800	mg/kg	0.10	0.19	0.10
Fluoranthene		M	2800	mg/kg	0.10	1.3	0.62
Pyrene		M	2800	mg/kg	0.10	1.2	0.55
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.73	0.29
Chrysene		M	2800	mg/kg	0.10	0.73	0.23
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.3	0.50
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.42	0.17
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.0	0.44
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.82	0.36
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.85	0.36
Total Of 16 PAH's		N	2800	mg/kg	2.0	9.1	3.8

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8–C10 Aromatics: >C5–C7,>C7–C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request .

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

All Asbestos testing is performed at the indicated laboratory .

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

Sample Deviation Codes

-
- A - Date of sampling not supplied
 - B - Sample age exceeds stability time (sampling to extraction)
 - C - Sample not received in appropriate containers
 - D - Broken Container
 - E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

All water samples will be retained for 14 days from the date of receipt.

Charges may apply to extended sample storage.

Water Sample Category Key for Accreditation

-
- DW - Drinking Water
 - GW - Ground Water
 - LE - Land Leachate
 - NA - Not Applicable

Report Information

PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

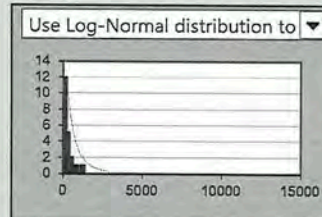
Test Results

Client/client ref: Sanctus
Project ref: S3240

Site ref: Ardrossan
Data description: Total TPH TSP12 Round 1

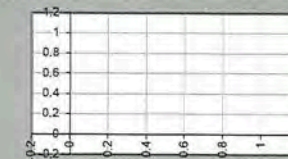
Date: 30-Aug-2024
User details: JRA

Dataset	Total TPH
Sample mean, $\bar{x}$	277.43
Sample standard deviation, s	279.13
Sample size, n	40
Critical concentration, Cc	1000



Outliers & non-detects

Outliers present?	NO
Significance level	5%
Outliers removed?	0
Non-detects	0

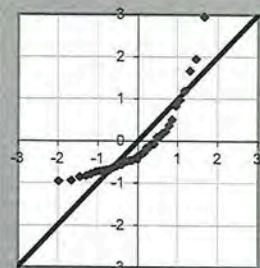


Normality test

Significance level 5%

Non-normal distribution

Use: Auto: Chebychev

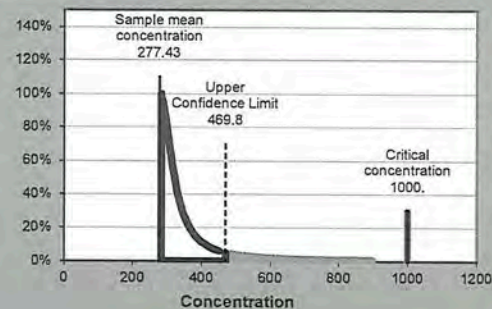


Test scenario: Planning: is true mean lower than critical concentration ($\mu < C_c$)?

Null hypothesis: The true mean concentration is equal to or greater than the critical concentration: $\mu \geq C_c$

Alternative hypothesis: The true mean concentration is less than the critical concentration: $\mu < C_c$

Probability that true mean exceeds the concentration given on the x axis



Evidence against Null hypothesis:

100%

Base decision on: evidence level

Evidence level required: 95%

Balance of probability? N/A

Reject Null Hypothesis? Yes

$\mu < C_c$ (re this dataset)

Test Results

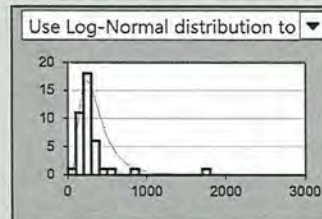
Client/client ref: Sanctus
Project ref: S3240

Site ref: Ardrossan

Date: 10-Sep-2024

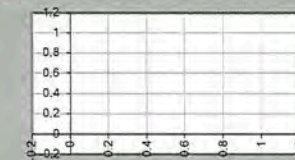
Data description: Total TPH levels TSP12 Round 2 User details: JRA

Datase	Total TPH
Sample mean, $\bar{x}$	291.95
Sample standard deviation, s	262.99
Sample size, n	40
Critical concentration, Cc	1000



Outliers & non-detects

Outliers present?	YES
Significance level	5%
Outliers removed?	0
Non-detects	0

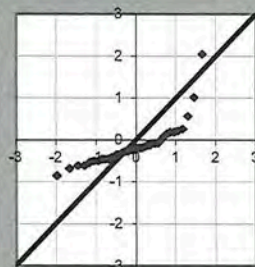


Normality test

Significance level 5%

Non-normal distribution

Use: Auto: Chebychev



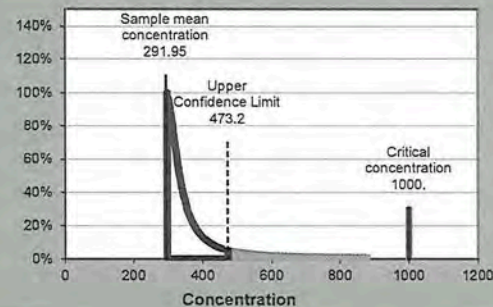
Test scenario:

Planning: is true mean lower than critical concentration ($\mu < C_c$)?

Null hypothesis: The true mean concentration is equal to or greater than the critical concentration: $\mu \geq C_c$

Alternative hypothesis: The true mean concentration is less than the critical concentration: $\mu < C_c$

Probability that true mean exceeds the concentration given on the x axis



Evidence against Null hypothesis:

100%

Base decision on: evidence level

Evidence level required: 95%

Balance of probability? N/A

Reject Null Hypothesis? Yes

$\mu < C_c$ (re this dataset)

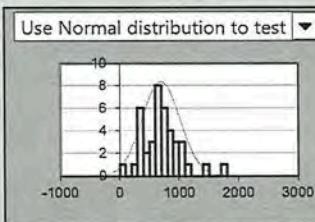
Test Results

Client/client ref: Sanctus
Project ref: S3240

Site ref: Ardrossan
Data description: Total TPH levels TSP12 Rd 3

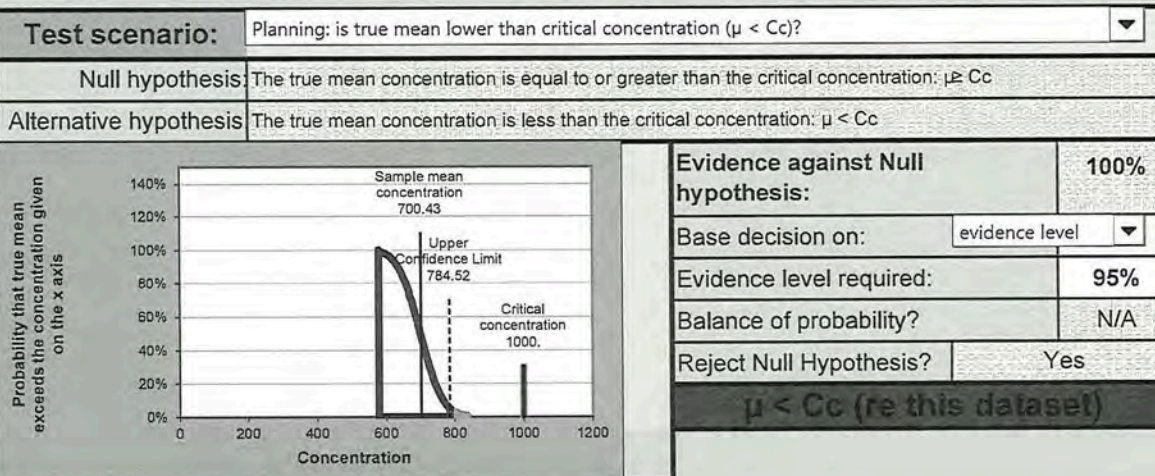
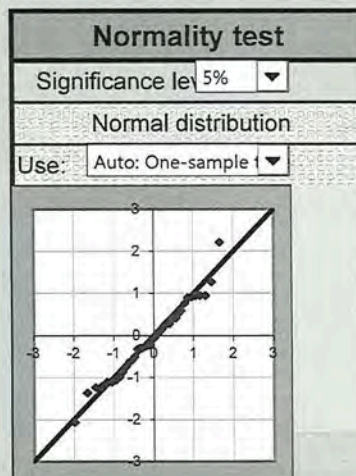
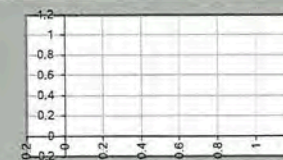
Date: 10-Sep-2024
User details: JRA

Dataset	Total TPH
Sample mean, $\bar{x}$	700.43
Sample standard deviation, s	315.68
Sample size, n	40
Critical concentration, Cc	1000



Outliers & non-detects

Outliers present?	YES
Significance level	5%
Outliers removed?	0
Non-detects	0



**Treated Stockpile Reuse Validation Form 011 – TSP23****Stockpile ID**

Stockpile ID: TSP23

Material Volume:

406 m³

Validation Samples Included

5 No.

Tested Location: Treatment Area 02

Stockpile Creation Date: 16/10/2024

Release Date: TBC

Sampling Data (3No. full rounds for validation to release)

Passing Round 1 (Overall Sample Round 9 of 11)	Sample Date: 12/02/2025	Report Number & Date: 25-05315–26/02/2025	Lab: Eurofins
Passing Round 2 (Overall Sample Round 10 of 11)	Sample Date: 19/02/2025	Report Number & Date: 25-06193–10/03/2025	Lab: Eurofins
Passing Round 3 (Overall Sample Round 11 of 11)	Sample Date: 11/03/2025	Report Number & Date: 25-08705–21/03/2025	Lab: Eurofins

Sampling Data**Passing Round 1**

Report Number: 25-05315

Report Date: 26/02/2025

Sample ID (Sample Names): TSP23-01E → TSP23-05E

Report ID (Lab): Eurofins

Comments:

Test Results: PASS / FAIL

Overall, 9th round of sampling undertaken from the treated Stockpile. No exceedances seen throughout. Sanctus deem this round of sampling as chemically suitable for reuse.

Passing Round 2

Report Number: 25-06193

Report Date: 10/03/2025

Sample ID (Sample Names): TSP23-01F → TSP23-05F

Report ID (Lab): Eurofins

Comments:

Test Results: PASS / FAIL

Overall, 10th round of sampling undertaken from the treated Stockpile. No exceedances seen throughout. Sanctus deem this round of sampling as chemically suitable for reuse.

Passing Round 3

Report Number: 25-08705

Report Date: 21/03/2025

Sample ID (Sample Names): TSP23-01G → TSP23-05G

Report ID (Lab): Eurofins

Comments:

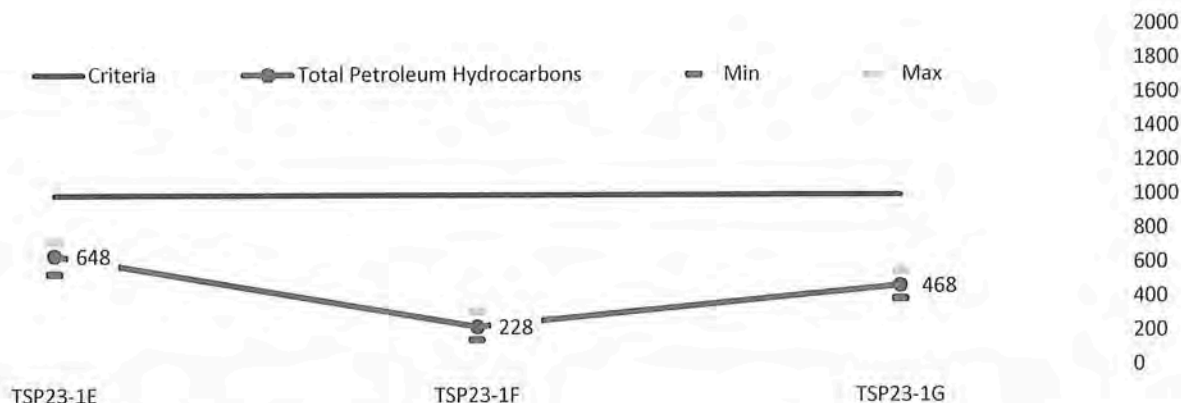
Test Results: PASS / FAIL

Overall, 11th round of sampling undertaken from the treated Stockpile. No exceedances seen throughout. Sanctus deem this round of sampling as chemically suitable for reuse.

Data Review

Data Trend for Total TPH levels:

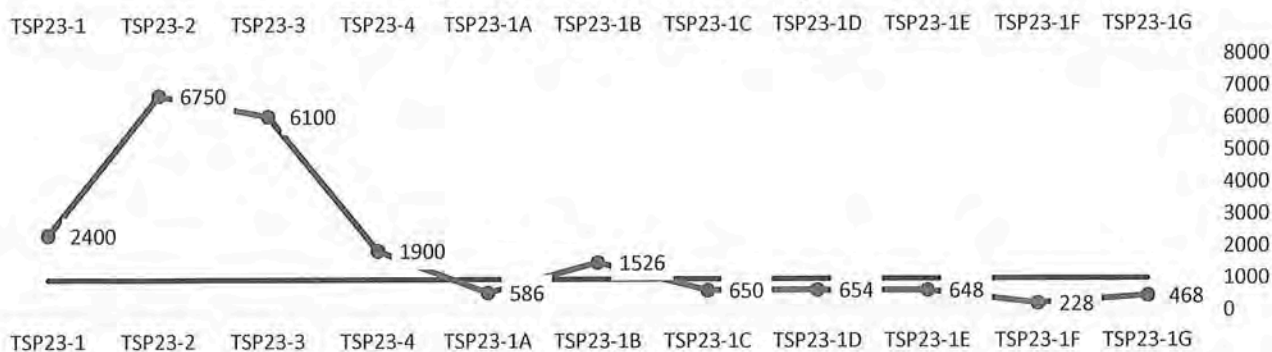
Min & Max Soil Values for Total Petroleum Hydrocarbons

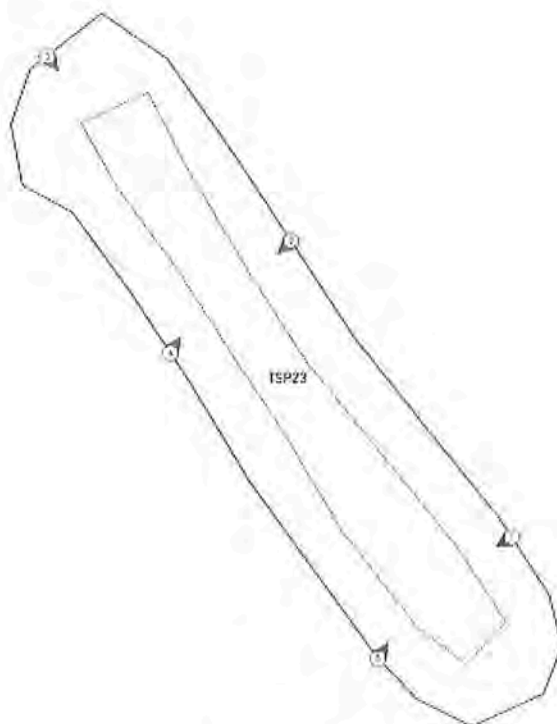


Additional Trendline Data – long term review:

Further to the above spread of data for the final 3 No. rounds, the total TPH levels from October 2024, for the treated stockpile, are shown below. The chart shows a significant decrease in the averaged total TPH levels, and the final result presents a reduction of total TPH level of 93.06 % when compared to the highest material's contents (6,750 mg/kg (16th October 2024), compared to 468 mg/kg (11th March 2025)):

Soil Values for Total Petroleum Hydrocarbons



Treated Stockpile Sample Plan:**Sampling Strategy:**

All samples have been taken in compliance with ISO BS 18400, including the following notes:

- Stainless steel/washable sampling devices (trowels, buckets, etc) will be employed for the gathering of the soils samples and cleaned between each sample location so that consecutive samples are not cross-contaminated.
- The sample positions shown above indicate the position relative to the base boundary of the stockpile. All samples are taken from a within the body of the Stockpile, retrieved by an excavator. This is done as a safe sample retrieval option as well as to target an internal representative sample location mid-way from the edge to the centre of the Stockpile, as discussed under BS ISO 18400-104:2018 (Sampling Strategies), subsection 9.
- The subsequent sample depths were between 1-2 m below the Stockpile's surface and a minimum of 4No. characteristic subsamples were taken from an area of approximately 1m² of the newly exposed material. The 4No. or more sub-locations were chosen in a X-pattern and the combined testing soil material is described as a composite sample, following a systematic stratified random sub-sampling location of a 3-dimensional source.
- The mechanically retrieved material is then sub-sampled into the required sampling jars/pots by the Sanctus Engineer as a representative sample from the numbered location.



Sanctus Declaration:

We confirm that:

1. The material that this form relates to, has been sampled representatively, as discussed above and in accordance with the client's requirements (Ardrossan Remediation Specification Rev E).
2. The material has been proven to be suitable for REUSE on site as there are 3 No. consecutive rounds, with a statistical insignificant number of exceedances of the accepted reuse criteria. No exceedances are seen within the all three monitoring rounds and each round's average for the total TPH levels have been significantly below the 1,000 mg/kg threshold level.
3. The laboratory analysis results are representative of the materials investigated.
4. The material released will also be recorded spatially at its reuse location.

NAME: [REDACTED]
POSITION: Senior Environmental Engineer
DATE: 04/04/2025
SIGNED:

X

[REDACTED]
Senior Environmental Engineer

Record of reuse

For Sanctus Use Only:

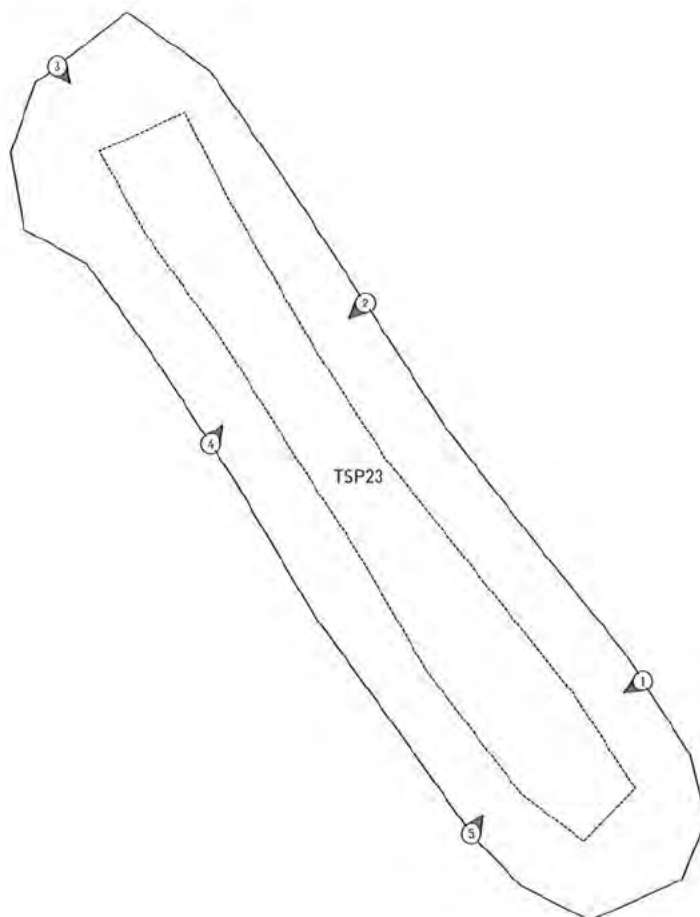
Approved for reuse:

Beginning of Movement from stockpile:

End of Movement into site:



- Legend:
- Contractual Phasing Boundary
 - Top of Bank
 - Bottom of Bank
 - Treatment Stockpile Sample Location



0m 2m 4m 8m



Sanctus House, 1 Olympus Park Business Centre,
Quedgeley, Glos, GL2 4DH
T: 01453 928222
E: info@sanctusltd.co.uk www.sanctusltd.com

Drawing Notes:
Based on client supplied DWG -
ARDROSSAN 2D produced by Aird Group,
23/03/2020. Must be printed in colour.

Site Address:
Raylight Place
Ardrossan
North Ayrshire
Scotland

Rev.	Description	Date
A	First Issue	11/03/2025

APPROVED

Project Name:
North Shore, Ardrossan

Client:
North Ayrshire Council

Drawing Title:
Treatment Stockpile 23 Sample Location Plan

Contract No:
53240

Drawing No:
D3240/119

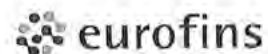
Scale @ A3:
1:200 / See Inset

Drawn By:

DC Check By:

Approved By:

Sample ID	Date Sampled	Total Petroleum Hydrocarbons	Aliphatic TPH >C5-C6	Aliphatic TPH >C6-C9	Aliphatic TPH >C9-C10	Aliphatic TPH >C10-C12	Aliphatic TPH >C12-C16	Aliphatic TPH >C16-C21	Aliphatic TPH >C21-C35	Aliphatic TPH >C10-C35	Aromatic TPH >C5-C7	Aromatic TPH >C7-C8	Aromatic TPH >C8-C10	Aromatic TPH >C10-C12	Aromatic TPH >C12-C16	Aromatic TPH >C16-C21	Aromatic TPH >C21-C35	Aromatic TPH >C10-C35
Units		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOD		10	0.02	0.02	0.05	1	2	8	8		0.01	0.01	0.05	1	2	10	10	
Screening Criteria		1000	78	230	65	330	1000	1000	1000		140	290	7.34	48.3	173.47	540	1000	
TSP23-01E	12/02/2025	540	< 0.05	< 0.10	< 0.05	< 2.0	47	180	130	360	< 0.05	< 0.05	< 0.05	< 1.0	4	22	89	110
TSP23-02E	12/02/2025	670	< 0.05	< 0.10	< 0.05	3	80	200	150	440	< 0.05	< 0.05	< 0.05	< 1.0	8	23	100	130
TSP23-03E	12/02/2025	680	< 0.05	< 0.10	< 0.05	5	66	230	170	470	< 0.05	< 0.05	< 0.05	< 1.0	8	21	93	120
TSP23-04E	12/02/2025	730	< 0.05	< 0.10	< 0.05	6	79	220	160	470	< 0.05	< 0.05	< 0.05	< 1.0	7	21	110	130
TSP23-05E	12/02/2025	610	< 0.05	< 0.10	< 0.05	< 2.0	61	180	94	330	< 0.05	< 0.05	< 0.05	< 1.0	16	78	120	220
TSP23-01F	19/02/2025	210	< 0.05	< 0.10	< 0.05	4	17	46	32	97	< 0.05	< 0.05	< 0.05	< 1.0	4	25	61	90
TSP23-02F	19/02/2025	220	< 0.05	< 0.10	< 0.05	3	22	48	37	110	< 0.05	< 0.05	< 0.05	< 1.0	7	31	50	87
TSP23-03F	19/02/2025	150	< 0.05	< 0.10	< 0.05	2	12	33	26	73	< 0.05	< 0.05	< 0.05	< 1.0	2	22	42	66
TSP23-04F	19/02/2025	240	< 0.05	< 0.10	< 0.05	3	15	51	28	96	< 0.05	< 0.05	< 0.05	2	7	38	67	110
TSP23-05F	19/02/2025	320	< 0.05	< 0.10	< 0.05	3	14	23	9	49	< 0.05	< 0.05	< 0.05	< 1.0	4	46	110	160
TSP23-01G	11/03/2025	400	< 0.05	< 0.10	< 0.05	< 2.0	30	120	39	180	< 0.05	< 0.05	< 0.05	< 1.0	9	61	110	180
TSP23-02G	11/03/2025	450	< 0.05	< 0.10	< 0.05	< 2.0	36	120	37	190	< 0.05	< 0.05	< 0.05	< 1.0	6	65	120	190
TSP23-03G	11/03/2025	390	< 0.05	< 0.10	< 0.05	< 2.0	36	94	41	170	< 0.05	< 0.05	< 0.05	< 1.0	8	67	110	190
TSP23-04G	11/03/2025	550	< 0.05	< 0.10	< 0.05	< 2.0	45	140	42	230	< 0.05	< 0.05	< 0.05	< 1.0	10	72	140	220
TSP23-05G	11/03/2025	550	< 0.05	< 0.10	< 0.05	2	59	120	43	230	< 0.05	< 0.05	< 0.05	< 1.0	11	96	140	250



Chemtest
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.: 25-05315-1
Initial Date of Issue: 26-Feb-2025

Re-Issue Details:

Client: Sanctus Limited
Client Address: 1 Olympus Park Business Centre
Quedgeley
Gloucester
Gloucestershire
GL2 4DH

Contact(s): Labs

Project: S3240 Ardrossan North Shore

Quotation No.: Q24-35340

Date Received: 14-Feb-2025

Order No.: S3240

Date Instructed: 14-Feb-2025

No. of Samples: 5

Turnaround (Wkdays): 5

Results Due: 20-Feb-2025

Date Approved: 26-Feb-2025

Approved By:



Details: [Redacted] Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				25-05315	25-05315	25-05315	25-05315	25-05315
Quotation No.: Q24-35340		Chemtest Sample ID.:				1932963	1932964	1932965	1932966	1932967
Order No.: S3240		Client Sample Ref.:				TSP23	TSP23	TSP23	TSP23	TSP23
		Client Sample ID.:				TSP23-01E	TSP23-02E	TSP23-03E	TSP23-04E	TSP23-05E
		Sample Location:				TSP23	TSP23	TSP23	TSP23	TSP23
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):				1.70	1.70	1.75	1.65	1.80
		Date Sampled:				12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
Moisture		N	2030	%	0.020	15	13	13	14	14
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	3.0	5.0	6.1	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	47	80	66	79	61
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	180	200	230	220	160
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	130	150	170	160	94
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	360	440	470	470	320
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	360	440	470	470	320
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	3.7	7.6	7.6	6.6	16
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	22	23	21	21	78
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	89	100	93	110	120
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	67	97	97	120	79
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	110	130	120	130	220
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	180	230	220	250	300
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	470	570	590	610	530
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	540	670	690	730	610
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.19	0.17

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-05315	25-05315	25-05315	25-05315	25-05315
Quotation No.: Q24-35340		Chemtest Sample ID.:	1932963	1932964	1932965	1932966	1932967
Order No.: S3240		Client Sample Ref.:	TSP23	TSP23	TSP23	TSP23	TSP23
		Client Sample ID.:	TSP23-01E	TSP23-02E	TSP23-03E	TSP23-04E	TSP23-05E
		Sample Location:	TSP23	TSP23	TSP23	TSP23	TSP23
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	1.70	1.70	1.75	1.65	1.80
		Date Sampled:	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025	12-Feb-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	4.1	1.4
Anthracene		M	2800	mg/kg	0.10	1.0	0.74
Fluoranthene		M	2800	mg/kg	0.10	6.4	2.5
Pyrene		M	2800	mg/kg	0.10	5.0	2.5
Benzo[a]anthracene		M	2800	mg/kg	0.10	3.5	2.1
Chrysene		M	2800	mg/kg	0.10	3.4	2.0
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	4.6	2.2
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	1.8	1.4
Benzo[a]pyrene		M	2800	mg/kg	0.10	3.4	1.9
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	2.8	2.1
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	1.2
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	2.4	2.1
Total Of 16 PAH's		N	2800	mg/kg	2.0	38	22

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2030	Moisture and Stone Content of Soils (Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description (Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35–C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35–C40	Acetone/Heptane extraction / GCxGC FID detection	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics. (cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7, >C7–C8, >C8–C10 Aromatics: >C5–C7, >C7–C8, >C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenzo[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request .

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

All Asbestos testing is performed at the indicated laboratory .

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

NEW_ASB Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL

DURHAM Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

A - Date of sampling not supplied

B - Sample age exceeds stability time (sampling to extraction)

C - Sample not received in appropriate containers

D - Broken Container

E - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

All water samples will be retained for 14 days from the date of receipt.

Charges may apply to extended sample storage.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com



Chemtest
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.: 25-06193-1

Initial Date of Issue: 10-Mar-2025

Re-Issue Details:

Client: Sanctus Limited

Client Address: 1 Olympus Park Business Centre
Quedgeley
Gloucester
Gloucestershire
GL2 4DH

Contact(s): Labs

Project: S3240 Ardrossan North Shore

Quotation No.: Q24-35340

Date Received: 21-Feb-2025

Order No.: S3240

Date Instructed: 21-Feb-2025

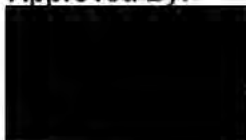
No. of Samples: 5

Turnaround (Wkdays): 5

Results Due: 27-Feb-2025

Date Approved: 10-Mar-2025

Approved By:



Details: [Redacted], Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				25-06193	25-06193	25-06193	25-06193	25-06193
Quotation No.: Q24-35340		Chemtest Sample ID.:				1936981	1936982	1936983	1936984	1936985
Order No.: S3240		Client Sample Ref.:				TSP23	TSP23	TSP23	TSP23	TSP23
		Client Sample ID.:				TSP23-01F	TSP23-02F	TSP23-03F	TSP23-04F	TSP23-05F
		Sample Location:				TSP23	TSP23	TSP23	TSP23	TSP23
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):				1.70	1.70	1.75	1.65	1.80
		Date Sampled:				19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
Moisture		N	2030	%	0.020	14	14	14	14	13
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	3.5	3.1	2.3	2.5	2.5
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	17	22	12	15	14
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	45	48	33	51	23
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	32	37	26	28	9.0
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	97	110	73	96	49
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	97	110	73	96	49
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	1.6	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	3.8	6.5	1.6	7.4	4.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	25	31	22	38	46
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	61	50	42	67	110
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	18	23	11	27	110
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	90	87	66	110	160
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	110	110	77	140	270
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	190	200	140	210	210
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	210	220	150	240	320
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	< 0.10	0.16	0.16	0.15	0.17

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	25-06193	25-06193	25-06193	25-06193	25-06193
Quotation No.: Q24-35340		Chemtest Sample ID.:	1936981	1936982	1936983	1936984	1936985
Order No.: S3240		Client Sample Ref.:	TSP23	TSP23	TSP23	TSP23	TSP23
		Client Sample ID.:	TSP23-01F	TSP23-02F	TSP23-03F	TSP23-04F	TSP23-05F
		Sample Location:	TSP23	TSP23	TSP23	TSP23	TSP23
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	1.70	1.70	1.75	1.65	1.80
		Date Sampled:	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025	19-Feb-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	0.12
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.93	0.62
Anthracene		M	2800	mg/kg	0.10	0.39	0.25
Fluoranthene		M	2800	mg/kg	0.10	2.5	1.9
Pyrene		M	2800	mg/kg	0.10	2.2	1.8
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.91	0.98
Chrysene		M	2800	mg/kg	0.10	0.82	0.86
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.8	1.7
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.62	0.56
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.2	1.4
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	1.1	1.1
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	0.21
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	1.3	1.2
Total Of 16 PAH's		N	2800	mg/kg	2.0	14	13

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C,	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8–C10 Aromatics: >C5–C7,>C7–C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenzo[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request .

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

All Asbestos testing is performed at the indicated laboratory .

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

NEW_ASB Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL

DURHAM Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

A - Date of sampling not supplied

B - Sample age exceeds stability time (sampling to extraction)

C - Sample not received in appropriate containers

D - Broken Container

E - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

All water samples will be retained for 14 days from the date of receipt.

Charges may apply to extended sample storage.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com