

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

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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.

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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.: 24-24570-1

Initial Date of Issue: 06-Aug-2024

Re-Issue Details:

Client Sanctus Limited

Client Address:



Contact(s): Labs

Project S3240 Ardrossan North Shore

Quotation No.:



Date Received: 01-Aug-2024

Order No.:

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:



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	TSP06-12K
		Sample Location:	TSP06	TSP06	TSP06	TSP06	TSP06	TSP06	TSP06
		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	6.6	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 >C8-C10 (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
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
		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
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.21	0.24	0.26
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.13
Fluoranthene		M	2800	mg/kg	0.10	0.71	0.53	0.57
Pyrene		M	2800	mg/kg	0.10	0.74	0.50	0.59
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.37	< 0.10	0.39
Chrysene		M	2800	mg/kg	0.10	0.29	< 0.10	0.39
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	0.69	< 0.10	0.53
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.19	< 0.10	0.32
Benzo[a]pyrene		M	2800	mg/kg	0.10	0.56	< 0.10	0.48
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.39	< 0.10	0.41
Dibenz(a,h)Anthracene		N	2800	mg/kg	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
Total Of 16 PAH's		N	2800	mg/kg	2.0	4.7	< 2.0	4.6

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	

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Total - Aliphatics & Aromatics
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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:



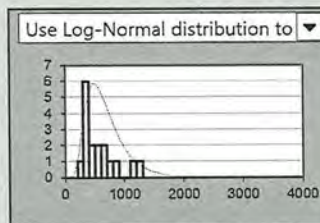
Test Results

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

Dataset	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

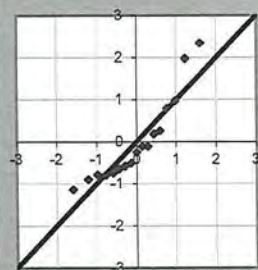


Normality test

Significance level 5%

Non-normal distribution

Use: Auto: Chebychev



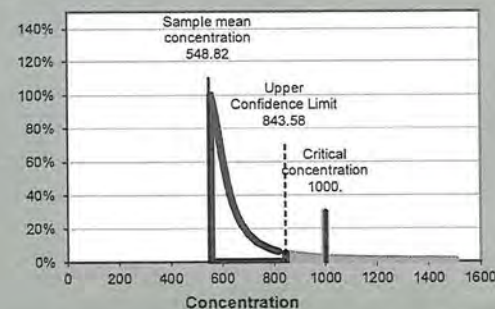
Test scenario:

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

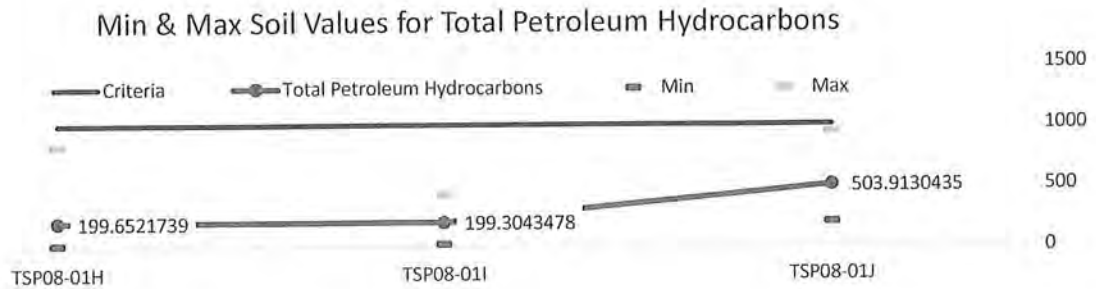
Report ID (Lab): Eurofins

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.

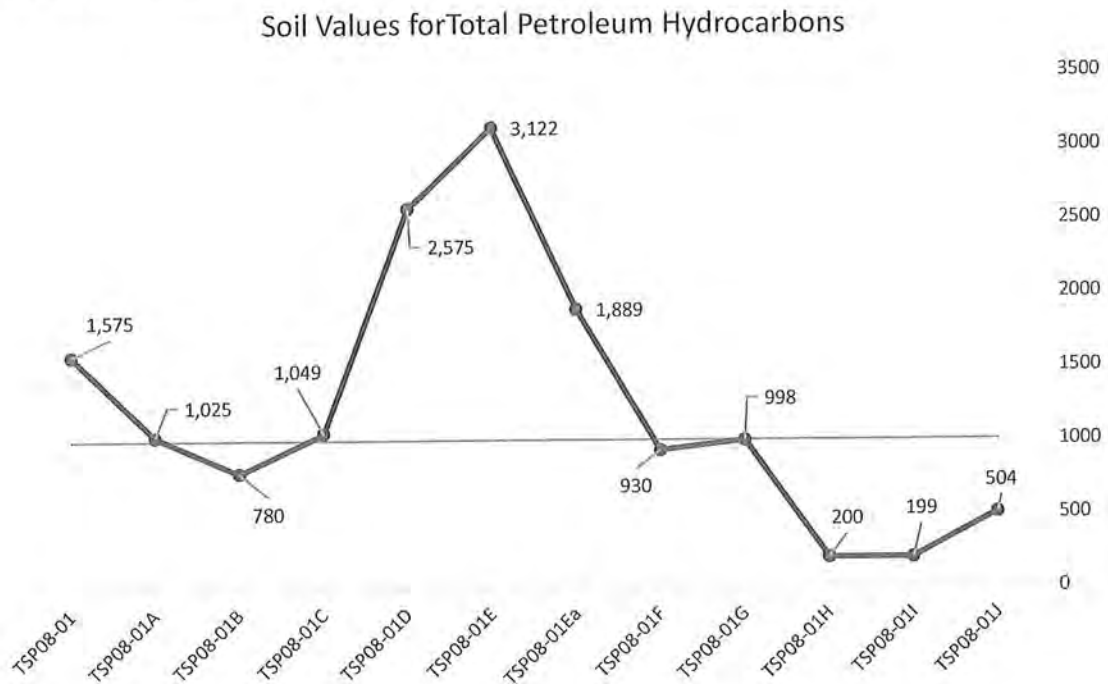
Data Review

Data Trend for Total TPH levels:

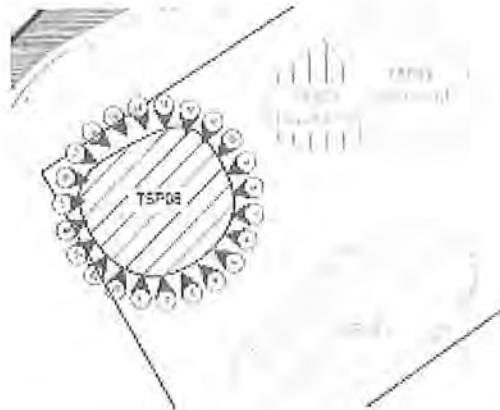


Additional Trendline Data – long term review:

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:

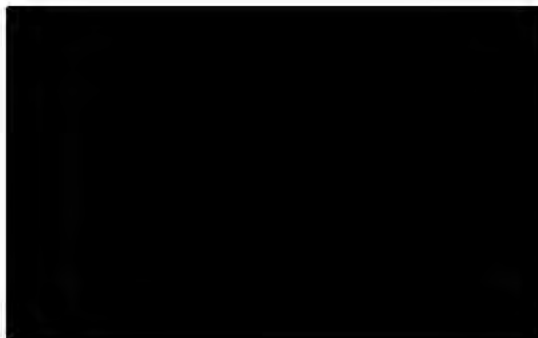
- Stainless steel/washable sampling devices (trowels, buckets, etc) will be employed for the gathering of the soils samples and cleaned between each sample location so that consecutive samples are not cross-contaminated.
- The sample positions shown above indicate the position relative to the base boundary 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



Record of reuse

For Sanctus Use Only:

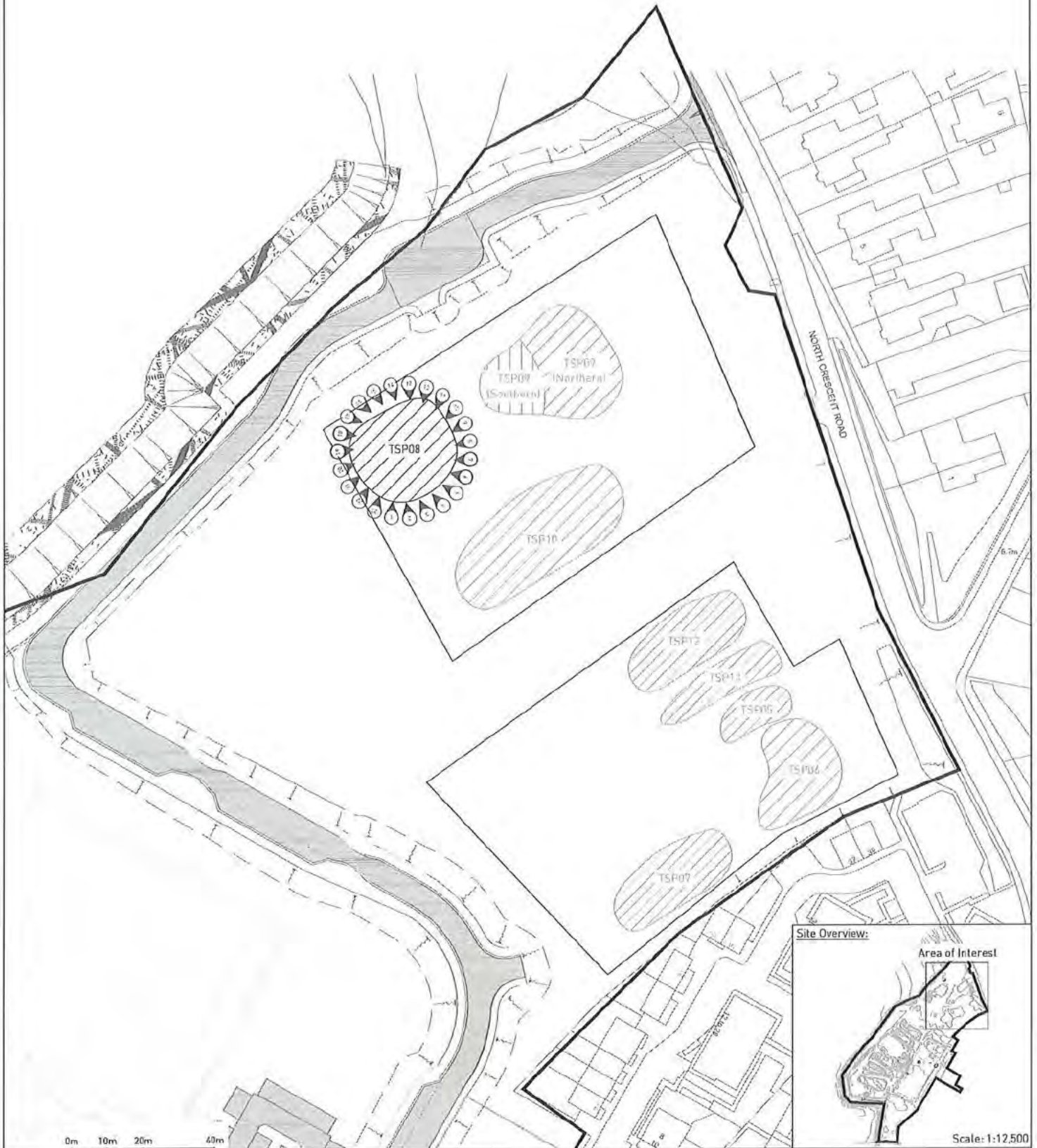
Approved for reuse:

Beginning of Movement from stockpile:

End of Movement into site:



- Legend:
- Site Boundary
 - ▨ Treated Stockpile 08 Sample Location



SANCIUS

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	02/08/2024

APPROVED

Project Name:
North Shore, Ardrossan

Client:
North Ayrshire Council

Drawing Title:
Treated Stockpile 08 Sample Locations

Contract No:
S3240

Drawing No:
D3240/078

Scale @ A3:
1:1000

Sample ID	Date Sampled	TS-01	TS-02	TS-03	TS-04	TS-05	TS-06	TS-07	TS-08	TS-09	TS-10	TS-11	TS-12	TS-13	TS-14	TS-15	TS-16	TS-17	TS-18	TS-19	TS-20
TS-001-01H	09/07/2024	10	0.02	0.02	0.05	1	2	8	8	0.01	0.01	0.05	1	2	10	10	10	10	10	10	
		1000	70	270	47	210	1000	1000	1000	140	200	74	30	173.87	540	1000	1000	1000	1000	1000	
TS-001-01H	09/07/2024	99	< 0.020	< 0.020	< 0.050	< 1.0	< 2.0	< 8.0	29	< 0.010	< 0.010	< 0.050	< 1.0	< 2.0	< 10	< 47	47	47	47	47	
TS-001-02H	09/07/2024	64	< 0.020	< 0.020	< 0.050	< 1.0	< 2.0	< 8.0	23	< 0.010	< 0.010	< 0.050	< 1.0	< 2.0	< 10	21	21	21	21	21	
TS-001-03H	09/07/2024	56	< 0.020	< 0.020	< 0.050	< 1.0	< 2.0	< 8.0	26	< 0.010	< 0.010	< 0.050	< 1.0	< 2.0	< 10	17	17	17	17	17	
TS-001-04H	09/07/2024	26	< 0.020	< 0.020	< 0.050	< 1.0	< 2.0	< 8.0	15	< 0.010	< 0.010	< 0.050	< 1.0	< 2.0	< 10	< 10	< 10	< 10	< 10	< 10	
TS-001-05H	09/07/2024	84	< 0.020	< 0.020	< 0.050	< 1.0	5.8	16	38	< 0.010	< 0.010	< 0.050	< 1.0	< 2.0	< 10	16	16	16	16	16	
TS-001-06H	09/07/2024	160	< 0.020	< 0.020	< 0.050	< 1.0	< 2.0	13	54	< 0.010	< 0.010	< 0.050	< 1.0	2.9	11	55	69	69	69	69	
TS-001-07H	09/07/2024	21	< 0.020	< 0.020	< 0.050	< 1.0	< 2.0	< 8.0	9.5	< 10	< 0.010	< 0.010	< 0.050	< 1.0	< 2.0	< 10	< 10	< 10	< 10	< 10	
TS-001-08H	09/07/2024	79	< 0.020	< 0.020	< 0.050	< 1.0	< 2.0	8.8	42	< 0.010	< 0.010	< 0.050	< 1.0	< 2.0	< 10	14	14	14	14	14	
TS-001-09H	09/07/2024	65	< 0.020	< 0.020	< 0.050	< 1.0	< 2.0	< 8.0	35	< 0.010	< 0.010	< 0.050	< 1.0	< 2.0	< 10	11	11	11	11	11	
TS-001-10H	09/07/2024	51	< 0.020	< 0.020	< 0.050	< 1.0	< 2.0	< 8.0	24	< 0.010	< 0.010	< 0.050	< 1.0	< 2.0	< 10	13	13	13	13	13	
TS-001-11H	09/07/2024	50	< 0.020	< 0.020	< 0.050	< 1.0	< 2.0	< 8.0	29	< 0.010	< 0.010	< 0.050	< 1.0	< 2.0	< 10	< 10	< 10	< 10	< 10	< 10	
TS-001-12H	09/07/2024	180	< 0.020	< 0.020	< 0.050	< 1.0	3.2	13	58	< 0.010	< 0.010	< 0.050	< 1.0	< 2.0	< 10	71	71	71	71	71	
TS-001-13H	09/07/2024	67	< 0.020	< 0.020	< 0.050	< 1.0	2.3	8.3	31	< 0.010	< 0.010	< 0.050	< 1.0	< 2.0	< 10	13	13	13	13	13	
TS-001-14H	09/07/2024	49	< 0.020	< 0.020	< 0.050	< 1.0	< 2.0	< 8.0	22	< 0.010	< 0.010	< 0.050	< 1.0	< 2.0	< 10	14	14	14	14	14	
TS-001-15H	09/07/2024	61	< 0.020	< 0.020	< 0.050	< 1.0	< 2.0	< 8.0	39	< 0.010	< 0.010	< 0.050	< 1.0	< 2.0	< 10	< 10	< 10	< 10	< 10	< 10	
TS-001-16H	09/07/2024	830	< 0.020	< 0.020	< 0.050	< 1.0	< 2.0	140	220	< 0.010	< 0.010	< 0.050	< 1.0	17	110	260	290	290	290	290	
TS-001-17H	09/07/2024	770	< 0.020	< 0.020	< 0.050	< 1.0	29	150	220	< 0.010	< 0.010	< 0.050	< 1.0	11	93	200	210	210	210	210	
TS-001-18H	09/07/2024	250	< 0.020	< 0.020	< 0.050	< 1.0	14	56	85	< 0.010	< 0.010	< 0.050	< 1.0	< 2.0	33	56	88	88	88	88	
TS-001-19H	09/07/2024	140	< 0.020	< 0.020	< 0.050	< 1.0	9.2	36	41	< 0.010	< 0.010	< 0.050	< 1.0	< 2.0	24	27	51	51	51	51	
TS-001-20H	09/07/2024	310	< 0.020	< 0.020	< 0.050	< 1.0	< 2.0	70	120	< 0.010	< 0.010	< 0.050	< 1.0	4.4	40	66	110	110	110	110	
TS-001-21H	09/07/2024	570	< 0.020	< 0.020	< 0.050	< 1.0	25	140	250	< 0.010	< 0.010	< 0.050	< 1.0	2	47	88	140	140	140	140	
TS-001-22H	09/07/2024	430	< 0.020	< 0.020	< 0.050	4.1	37	81	120	< 0.010	< 0.010	< 0.050	< 1.0	3.5	48	110	160	160	160	160	
TS-001-23H	09/07/2024	180	< 0.020	< 0.020	< 0.050	< 1.0	8	30	55	< 0.010	< 0.010	< 0.050	< 1.0	< 2.0	23	47	70	70	70	70	
TS-001-01I	17/07/2024	230	< 0.05	< 0.10	< 0.05	9.3	38	54	34	< 0.05	< 0.05	< 0.05	< 1.0	6	18	14	38	38	38	38	
TS-001-02I	17/07/2024	230	< 0.05	< 0.10	< 0.05	12	38	71	46	< 0.05	< 0.05	< 0.05	< 1.0	6.1	17	16	39	39	39	39	
TS-001-03I	17/07/2024	110	< 0.05	< 0.10	< 0.05	6.5	27	36	25	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	7.4	5.2	13	13	13	13	
TS-001-04I	17/07/2024	250	< 0.05	< 0.10	< 0.05	13	52	72	54	< 0.05	< 0.05	< 0.05	1.2	7.8	24	10	40	40	40	40	
TS-001-05I	17/07/2024	200	< 0.05	< 0.10	< 0.05	11	33	58	27	< 0.05	< 0.05	< 0.05	< 1.0	6.7	24	17	47	47	47	47	
TS-001-06I	17/07/2024	320	< 0.05	< 0.10	< 0.05	13	55	83	78	< 0.05	< 0.05	< 0.05	1.1	8.3	27	17	54	54	54	54	
TS-001-07I	17/07/2024	140	< 0.05	< 0.10	< 0.05	12	35	43	28	< 0.05	< 0.05	< 0.05	< 1.0	5.4	10	4.5	20	20	20	20	
TS-001-08I	17/07/2024	380	< 0.05	< 0.10	< 0.05	21	89	110	60	< 0.05	< 0.05	< 0.05	4	8.8	36	4	52	52	52	52	
TS-001-09I	17/07/2024	33	< 0.05	< 0.10	< 0.05	8.6	15	1.7	< 3.0	28	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	3.5	< 2.0	< 2.0	< 2.0	< 2.0	
TS-001-10I	17/07/2024	140	< 0.05	< 0.10	< 0.05	10	27	38	25	< 0.05	< 0.05	< 0.05	< 1.0	< 2.0	12	7.9	23	23	23	23	
TS-001-11I	17/07/2024	150	< 0.05	< 0.10	< 0.05	10	27	44	22	< 0.05	< 0.05	< 0.05	< 1.0	4.4	14	11	29	29	29	29	
TS-001-12I	17/07/2024	430	< 0.05	< 0.10	< 0.05	23	100	120	92	< 0.05	< 0.05	< 0.05	4.8	12	40	13	70	70	70	70	
TS-001-13I	17/07/2024	220	< 0.05	< 0.10	< 0.05	10	39	56	52	< 0.05	< 0.05	< 0.05	< 1.0	5.3	17	16	28	28	28	28	
TS-001-14I	17/07/2024	150	< 0.05	< 0.10	< 0.05	10	31	51	29	< 0.05	< 0.05	< 0.05	< 1.0	3.2	12	8.2	24	24	24	24	
TS-001-15I	17/07/2024	180	< 0.05	< 0.10	< 0.05	13	33	60	23	< 0.05	< 0.05	< 0.05	< 1.0	6.7	16	14	37	37	37	37	
TS-001-16I	17/07/2024	200	< 0.05	< 0.10	< 0.05	11	32	49	25	< 0.05	< 0.05	< 0.05	< 1.0	4	12	17	23	23	23	23	
TS-001-17I	17/07/2024	170	< 0.05	< 0.10	< 0.05	11	46	50	29	< 0.05	< 0.05	< 0.05	< 1.0	5	19	6.8	31	31	31	31	
TS-001-18I	17/07/2024	270	< 0.05	< 0.10	< 0.05	15	51	69	29	< 0.05	< 0.05	< 0.05	1.2	8.7	27	17	54	54	54	54	
TS-001-19I	17/07/2024	330	< 0.05	< 0.10	< 0.05	16	85	110	44	< 0.05	< 0.05	< 0.05	1.6	6.5	32	24	64	64	64	64	
TS-001-20I	17/07/2024	120	< 0.05	< 0.10	< 0.05	10	25	32	9.2	< 0.05	< 0.05	< 0.05	< 1.0	2.8	7.7	5.6	15	15	15	15	
TS-001-21I	17/07/2024	220	< 0.05	< 0.10	< 0.05	9.4	22	30	6.2	< 0.05	< 0.05	< 0.05	< 1.0	5.9	24	20	50	50	50	50	
TS-001-22I	17/07/2024	22	< 0.05	< 0.10	< 0.05	5.6	10	< 2.0	< 3.0	16	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	4.9	< 2.0	< 2.0	< 2.0	< 2.0	
TS-001-23I	17/07/2024	89	< 0.05	< 0.10	< 0.05	6.9	24	29	11	< 0.05	< 0.05	< 0.05	< 1.0	2.9	7.3	5.1	15	15	15	15	
TS-001-01J	30/07/2024	370	< 0.05	< 0.10	< 0.05	< 2.0	55	130	100	< 0.05	< 0.05	< 0.05	< 1.0	7.2	34	9.2	59	59	59	59	
TS-001-02J	30/07/2024	560	< 0.05	< 0.10	< 0.05	2.2	61	160	100	< 0.05	< 0.05	< 0.05	< 1.0	7.3	35	30	72	72	72	72	
TS-001-03J	30/07/2024	450	< 0.05	< 0.10	< 0.05	< 2.0	74	150	130	< 0.05	< 0.05	< 0.05	< 1.0	7.9	37	12	57	57	57	57	
TS-001-04J	30/07/2024	470	< 0.05	< 0.10	< 0.05	< 2.0	69	160	140	< 0.05	< 0.05	< 0.05	< 1.0	6.8	45	11	62	62	62	62	
TS-001-05J	30/07/2024	480	< 0.05	< 0.10	< 0.05	2.3	88	160	140	< 0.05	< 0.05	< 0.05	1.1	12	42	7.1	61	61	61	61	
TS-001-06J	30/07/2024	620	< 0.05	< 0.10	< 0.05	13	93	260	190	< 0.05	< 0.05	< 0.05	2.4	17	51	7.6	78	78	78	78	
TS-001-07J	30/07/2024	300	< 0.05	< 0.10	< 0.05	< 2.0	46	110	87	< 0.05	< 0.05	< 0.05	< 1.0	4.1	26	11	42	42	42	42	
TS-001-08J	30/07/2024	690	< 0.05	< 0.10	< 0.05	< 2.0	83	270	220	< 0.05	< 0.05	< 0.05	< 1.0	8.6	43	9.5	62	62	62	62	
TS-001-09J	30/07/2024	200	< 0.05	< 0.10	< 0.05	< 2.0	33	62	56	< 0.05	< 0.05	< 0.05	< 1.0	7.1	19	7.2	34	34	34	34	
TS-001-10J	30/07/2024	610	< 0.05	< 0.10	< 0.05	< 2.0	96	200	180	< 0.05	< 0.05	< 0.05									



Environmental Science

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

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

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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.



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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/weighting	%	0.001	ISO 17025	-	-	-	< 0.001	< 0.001
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	-	-	Loose Fibres	Loose Fibres
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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
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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 _{EH_CU_ID_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_ID_AL}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	5.6
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_ID_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	16
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_ID_AL}	mg/kg	8	MCERTS	29	23	26	15	38
TPHCWG - Aliphatic >EC5 - EC35 _{EH_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 _{EH_CU_ID_AR}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_ID_AR}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_ID_AR}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_ID_AR}	mg/kg	10	MCERTS	47	21	17	< 10	16
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_ID_AR}	mg/kg	10	NONE	47	21	17	< 10	16

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



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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/weighting	%	0.001	ISO 17025	< 0.001	-	< 0.001	-	-
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	Loose Fibres	-	Loose Fibres	-	-
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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
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4041



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_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 _{EH_CU_ID_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_ID_AL}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_ID_AL}	mg/kg	8	MCERTS	13	< 8.0	8.8	< 8.0	< 8.0
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_ID_AL}	mg/kg	8	MCERTS	54	9.5	42	35	24
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+H6_ID_AL}	mg/kg	10	NONE	67	< 10	50	35	24

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 _{EH_CU_ID_AR}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_ID_AR}	mg/kg	2	MCERTS	2.9	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_ID_AR}	mg/kg	10	MCERTS	11	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_ID_AR}	mg/kg	10	MCERTS	55	< 10	14	11	13
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+H6_ID_AR}	mg/kg	10	NONE	69	< 10	14	11	13

TPH (EC10 - EC40) _{EH_CU_ID_TOTAL}	mg/kg	10	MCERTS	160	21	79	65	51
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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
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	-	-	-	Loose Fibres
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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
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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_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 _{EH_CU_ID_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_ID_AL}	mg/kg	2	MCERTS	< 2.0	3.2	2.3	< 2.0	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_ID_AL}	mg/kg	8	MCERTS	< 8.0	13	8.3	< 8.0	< 8.0
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_ID_AL}	mg/kg	8	MCERTS	29	58	31	22	39
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_ID_AL}	mg/kg	10	NONE	29	75	42	22	39

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 _{EH_CU_ID_AR}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_ID_AR}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_ID_AR}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_ID_AR}	mg/kg	10	MCERTS	< 10	71	13	14	< 10
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_ID_AR}	mg/kg	10	NONE	< 10	71	13	14	< 10

TPH (EC10 - EC40) _{EH_CU_ID_TOTAL}	mg/kg	10	MCERTS	50	180	67	49	61
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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



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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/weighting	%	0.001	ISO 17025	< 0.001	0.001	-	-	-
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	Loose Fibres	Loose Fibres	-	-	-
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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
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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_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 _{EH_CU_ID_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_ID_AL}	mg/kg	2	MCERTS	< 2.0	39	14	9.2	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_ID_AL}	mg/kg	8	MCERTS	140	150	56	36	70
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_ID_AL}	mg/kg	8	MCERTS	220	220	85	41	120
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_ID_AL}	mg/kg	10	NONE	360	400	160	86	190

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 _{EH_CU_ID_AR}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_ID_AR}	mg/kg	2	MCERTS	17	11	< 2.0	< 2.0	4.4
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_ID_AR}	mg/kg	10	MCERTS	110	93	33	24	40
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_ID_AR}	mg/kg	10	MCERTS	260	200	56	27	66
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_ID_AR}	mg/kg	10	NONE	390	310	88	51	110

TPH (EC10 - EC40) _{EH_CU_ID_TOTAL}	mg/kg	10	MCERTS	830	770	250	140	310
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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



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



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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



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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	L054B	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



Final Report

Report No.: 24-22989-1

Initial Date of Issue: 23-Jul-2024

Re-Issue Details:

Client Sanctus Limited

Client Address:



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:



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
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
		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
		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:	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
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, Roots and Glass	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 >C8-C10 (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	9.3	12	6.5	13	11	13	12
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	38	38	27	52	33	55	35
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	54	71	36	72	58	83	43
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	34	46	25	54	27	78	26
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10	< 10	15	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	140	170	95	190	130	230	120
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	140	170	95	190	130	240	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
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	1.2	< 1.0	1.1	< 1.0
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
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	18	17	7.4	24	24	27	10
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	14	16	5.2	10	17	17	4.5
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	58	20	1.3	14	23	23	2.1
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	38	39	13	43	47	54	20
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	96	59	14	57	71	77	22
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	210	110	230	180	280	140
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	230	230	110	250	200	320	140
Naphthalene		M	2700	mg/kg	0.10	0.21	< 0.10	0.16	< 0.10	< 0.10	0.14	< 0.10
Acenaphthylene		M	2700	mg/kg	0.10	0.19	< 0.10	0.19	< 0.10	< 0.10	0.22	< 0.10
Acenaphthene		M	2700	mg/kg	0.10	0.10	< 0.10	0.13	< 0.10	< 0.10	0.15	< 0.10
Fluorene		M	2700	mg/kg	0.10	0.15	< 0.10	0.25	< 0.10	< 0.10	0.28	< 0.10
Phenanthrene		M	2700	mg/kg	0.10	1.5	0.74	0.51	0.77	0.37	0.79	0.39

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	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	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	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	0.19	0.22	0.31	0.26	0.38	0.15	0.36	0.28
Fluoranthene		M	2700	mg/kg	0.10	1.7	2.4	2.4	1.9	1.1	1.2	2.7	1.6
Pyrene		M	2700	mg/kg	0.10	2.0	2.3	2.5	2.1	1.2	1.2	2.7	1.7
Benzo[a]anthracene		M	2700	mg/kg	0.10	1.1	1.2	1.3	1.1	0.81	0.93	1.4	1.4
Chrysene		M	2700	mg/kg	0.10	1.3	1.4	1.5	0.88	0.90	0.79	1.4	1.2
Benzo[b]fluoranthene		M	2700	mg/kg	0.10	2.2	2.8	2.6	2.3	1.8	1.9	3.0	2.6
Benzo[k]fluoranthene		M	2700	mg/kg	0.10	0.64	1.1	0.74	0.99	0.70	0.75	1.0	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	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	1.8
Dibenz(a,h)Anthracene		M	2700	mg/kg	0.10	0.42	1.0	0.41	0.91	0.66	0.72	1.1	0.86
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	2.2
Total Of 16 PAH's		M	2700	mg/kg	2.0	16	20	19	16	12	12	21	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
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.:				TSP08-17I	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								
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	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	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	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	< 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	< 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	1.2	1.6	< 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	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	< 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	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:	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	0.16	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

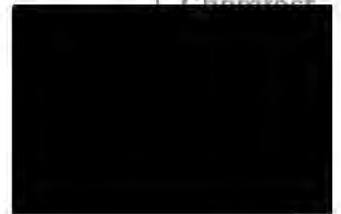
NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

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:





Final Report

Report No.: 24-24570-1
Initial Date of Issue: 06-Aug-2024

Re-Issue Details:

Client Sanctus Limited

Client Address:



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:



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.	SOP	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	83
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.	SQP	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	1844475	1844476
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	TSP08-17J	TSP08-18J
		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
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
		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
		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	0.20	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	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
		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
Soil Colour		N	2040		N/A	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
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	< 2.0	5.3	< 2.0	3.7	5.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	56	95	54	79	110	51
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	150	210	120	160	260	130
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	120	200	93	130	190	96
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	16	31	13	20	34	15
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	330	510	270	380	560	280
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	340	540	280	400	590	290
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	10	8.6	5.6	9.4	18	6.2
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	35	54	28	40	66	29
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	9.8	16	18	6.8	14	4.7
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	11	23	13	11	16	8.1
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	55	79	51	56	100	40
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	65	100	64	67	120	48
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	380	590	320	430	660	320
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	410	650	350	460	710	340
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.:	24-24570	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			
		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							
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*; 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:



**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

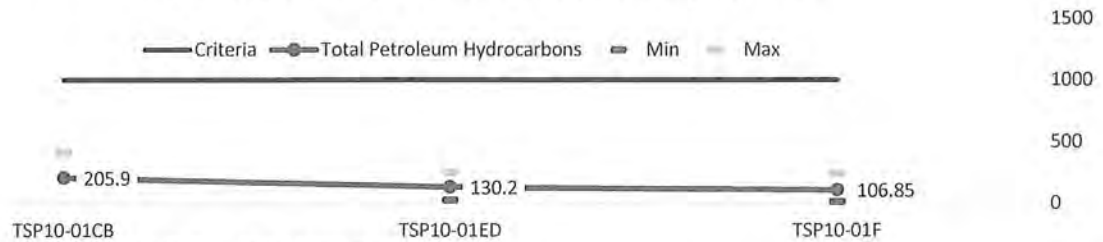
Comments:**Test Results: PASS / FAIL**

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:

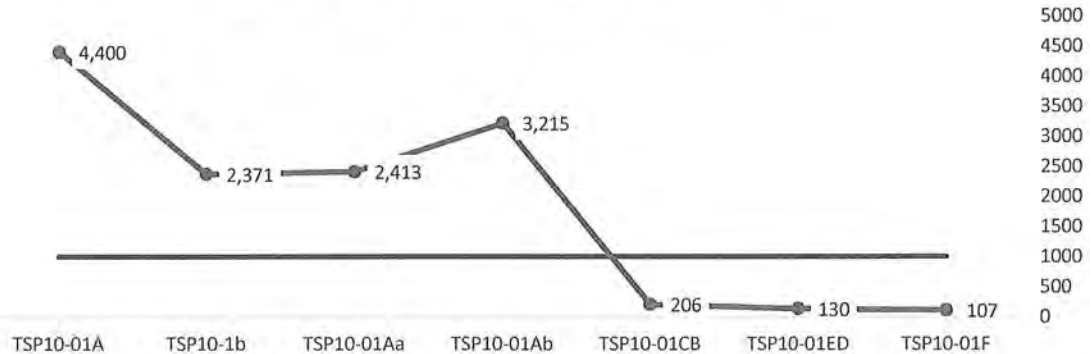
Min & Max Soil Values for Total Petroleum Hydrocarbons

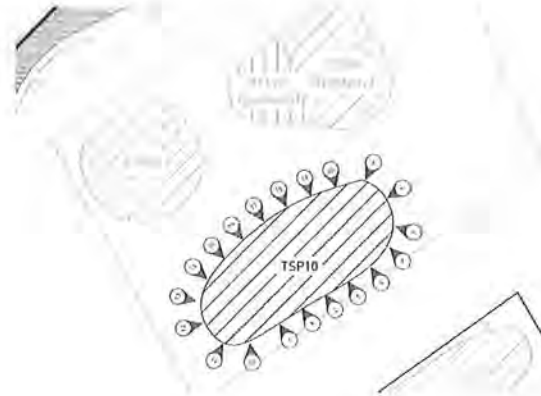


Additional Trendline Data – long term review:

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 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.



Record of reuse

For Sanctus Use Only:

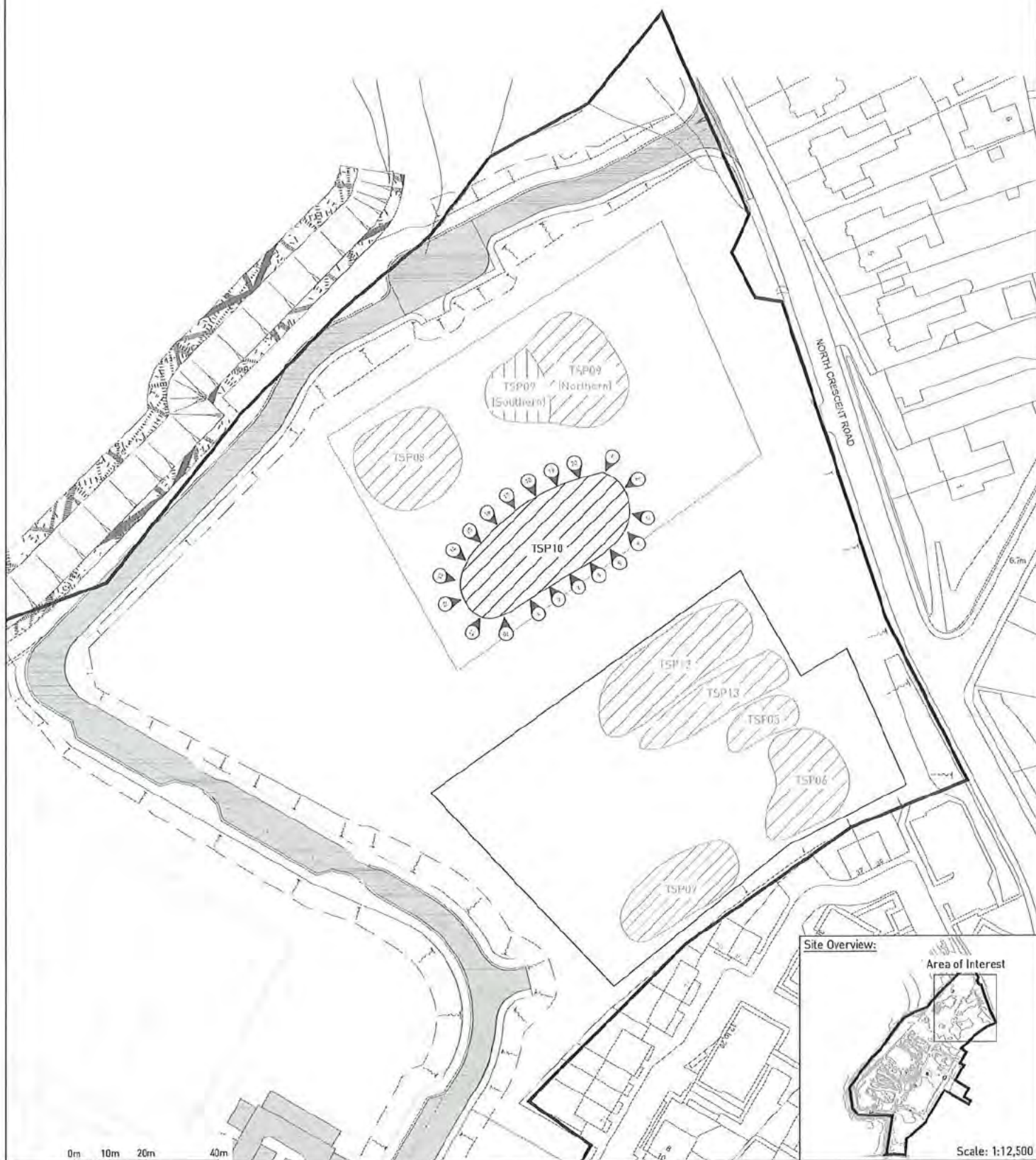
Approved for reuse:

Beginning of Movement from stockpile:

End of Movement into site:



- Legend:
- Site Boundary
 - ▨ Treated Stockpile Location



Scale: 1:12,500

sanctus

Drawing Notes:
Based on client supplied DWG -
ARCDROSSAN 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 10 Locations

Contract No.
S3240

Drawing No.
D3240/102

Scale @ A3:
1:1000

Sample ID	Date Sampled	Asph TPH N10- C11	Aliphatic TPH N10- C11	Aliphatic TPH N10- C11	Aliphatic TPH N10- C11	Aliphatic TPH N10- C11	Aliphatic TPH N10- C11	Aliphatic TPH N10- C11	Aliphatic TPH N10- C11	Aliphatic TPH N10- C11	Aliphatic TPH N10- C11	Aliphatic TPH N10- C11	Aliphatic TPH N10- C11	Aliphatic TPH N10- C11	Aliphatic TPH N10- C11	Aliphatic TPH N10- C11	Aliphatic TPH N10- C11	Aliphatic TPH N10- C11
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	10	10	10	10	10	10	10	10	10
Reopening Criteria		1000	78	230	60	330	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	< 1.0	2.8	11	5.1
TSP10-03C	17/07/2024	160	< 0.05	< 0.10	< 0.05	11	30	37	31	110	< 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	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	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	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	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	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	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	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	3.5	20	48	22	93
TSP10-12B	17/07/2024	290	< 0.05	< 0.10	< 0.05	11	34	63	53	160	< 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	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	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	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	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	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	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	< 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	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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	64	< 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	< 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	< 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	< 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	< 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	< 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	< 1.0	11	31	36	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	< 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	< 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	< 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	< 1.0	4.6	26	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	< 1.0	2.8	26	30	59
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	< 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	< 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	< 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	< 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	< 1.0	2.3	24	34	60
TSP10-08F	20/08/2024	96	< 0.05	< 0.10	< 0.05	< 2.0	7.8	25	25	57	< 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	< 1.0	< 1.0	7.1	19	26
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	< 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	< 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	< 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	< 1.0	< 1.0	< 2.0	< 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	< 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	< 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	< 0.05	< 1.0	< 1.0	23	31	54
TSP10-17F	20/08/2024	60	< 0.05	< 0.10	< 0.05	< 2.0	< 1.0	25	9.3	35	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	6.9	10	17
TSP10-18F	20/08/2024	14	< 0.05	< 0.10	< 0.05	< 2.0	< 1.0	< 2.0	3.1	< 5.0	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	3	5.5	8.4
TSP10-19F	20/08/2024	28	< 0.05	< 0.10	< 0.05	< 2.0	< 1.0	9.3	4.8	14	< 0.05	< 0.05	< 0.05	< 1.0	< 1.0	3.9	7.8	



Final Report

Report No.: 24-24570-1

Initial Date of Issue: 06-Aug-2024

Re-Issue Details:

Client Sanctus Limited

Client Address:



Contact(s): Labs

Project S3240 Ardrossan North Shore

Quotation No.:



Date Received: 01-Aug-2024

Order No.:

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:



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	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	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	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	9.2	9.8	8.1	7.4	7.3	7.9	6.7	6.3
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones and Roots	Stones	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	3.2	7.2	4.5	3.3	< 2.0	2.8	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	70	110	92	71	45	110	69	37
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	190	220	160	180	130	180	140	77
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	150	130	140	150	100	140	120	66
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	20	< 10	20	22	17	23	16	10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	410	460	390	400	280	440	320	180
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	430	460	410	420	300	460	340	190
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	9.2	19	6.2	9.5	10	17	8.0	4.2
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	46	59	43	43	32	58	39	24
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	5.4
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	16	73	23	15	8.7	13	9.8	3.2
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	64	100	58	62	55	82	56	33
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	79	170	82	77	64	95	66	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	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	480	560	450	460	340	520	380	210
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	510	630	500	500	360	550	410	230
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
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			
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								
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	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								
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	0.44	0.51	0.18
Acenaphthylene		N	2800	mg/kg	0.10	0.38	0.32	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	0.40	0.31	0.12	< 0.10
Fluorene		M	2800	mg/kg	0.10	0.42	0.50	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.94	1.8	0.54	0.71
Anthracene		M	2800	mg/kg	0.10	0.70	0.87	0.23	0.31
Fluoranthene		M	2800	mg/kg	0.10	2.5	3.0	1.4	2.0
Pyrene		M	2800	mg/kg	0.10	2.6	2.9	1.3	2.2
Benzo[a]anthracene		M	2800	mg/kg	0.10	2.2	2.4	0.70	1.2
Chrysene		M	2800	mg/kg	0.10	2.3	2.3	0.76	1.2
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	3.0	2.9	1.1	2.2
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	2.1	1.8	0.33	0.77
Benzo[a]pyrene		M	2800	mg/kg	0.10	2.6	2.7	1.1	1.9
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	2.5	2.3	0.72	1.2
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	1.6	1.6	0.15	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	2.5	2.3	0.78	1.3
Total Of 16 PAH's		N	2800	mg/kg	2.0	27	28	9.7	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:

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Final Report

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

Re-Issue Details:

Client Sanctus Limited

Client Address:

Contact(s): Labs
Project S3240 Adrossan North Shore

Quotation No.:

Date Received: 15-Aug-2024

Order No.:

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:

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		
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		
		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	4.0	< 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	24-26282
Quotation No.: Q24-35340		Chemtest Sample ID.:	1852000	1852001	1852002	1852003	1852004	1852005	1852006	1852007			
Order No.: S3240		Client Sample Ref.:	TSP10	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			
		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								
Naphthalene		M	2800	mg/kg	0.10	0.24	< 0.10	0.35	< 0.10	0.13	< 0.10	< 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	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	0.20	< 0.10	< 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	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	2.0	0.35	0.43	0.36	< 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	0.12	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	2.6	0.81	1.2	1.1	1.1	1.3	0.99	0.92
Pyrene		M	2800	mg/kg	0.10	2.3	0.85	1.1	1.0	1.1	1.3	0.94	0.91
Benzo[a]anthracene		M	2800	mg/kg	0.10	1.1	0.46	0.60	0.50	< 0.10	0.81	0.45	0.39
Chrysene		M	2800	mg/kg	0.10	1.1	0.44	0.66	0.55	< 0.10	0.81	0.34	0.48
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.5	0.87	1.1	0.84	< 0.10	1.2	0.78	0.77
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.66	0.25	0.37	0.28	< 0.10	0.43	0.22	0.29
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.2	< 0.10	0.86	0.74	< 0.10	0.95	0.66	0.70
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	0.52
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.25	< 0.10	0.12	< 0.10	< 0.10	< 0.10	0.11	< 0.10
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	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	5.5

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			
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			
		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:	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	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	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			
		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:	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	< 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	0.26
Phenanthrene		M	2800	mg/kg	0.10	0.24	0.89	0.62	0.47	2.5	0.41	0.67	0.83
Anthracene		M	2800	mg/kg	0.10	< 0.10	0.70	0.16	0.28	0.88	0.14	0.26	0.56
Fluoranthene		M	2800	mg/kg	0.10	0.76	3.8	1.5	1.7	6.6	1.0	3.0	2.8
Pyrene		M	2800	mg/kg	0.10	0.78	3.2	1.2	1.6	5.4	0.96	2.6	2.5
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.38	1.7	0.71	1.3	2.4	0.48	1.2	2.5
Chrysene		M	2800	mg/kg	0.10	0.41	1.7	0.73	1.5	2.4	0.46	1.2	2.6
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	2.1	1.1	1.8	3.1	0.72	1.8	3.1
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	0.81	0.42	1.2	1.0	0.24	0.68	2.2
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	1.8	0.72	1.4	2.8	0.67	1.6	2.5
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	2.6
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	0.37	< 0.10	0.95	0.32	< 0.10	0.29	1.9
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	2.6
Total Of 16 PAH's		N	2800	mg/kg	2.0	2.6	20	8.5	15	31	6.2	16	27

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*; 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:





Final Report

Report No.: 24-26904-1
Initial Date of Issue: 23-Aug-2024

Re-Issue Details:

Client: Sanctus Limited
Client Address:

Contact(s): Labs
Project: S3240 Adrossan North Shore
Quotation No.: Q24-35340
Order No.: S3240
No. of Samples: 20
Turnaround (Wkdays): 3
Date Approved: 23-Aug-2024

Date Received: 21-Aug-2024
Date Instructed: 21-Aug-2024
Results Due: 23-Aug-2024

Approved By:

Details:

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	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	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	< 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	0.31	0.48	< 0.10	0.31	< 0.10	0.59	0.38	0.39
Anthracene		M	2800	mg/kg	0.10	0.16	0.35	< 0.10	0.16	< 0.10	0.26	0.16	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	0.94	2.1	1.2	1.2	1.3	1.8	1.8	1.5
Pyrene		M	2800	mg/kg	0.10	0.91	2.0	1.2	1.1	1.2	1.7	1.7	1.3
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.52	1.8	0.60	0.64	0.61	0.92	0.83	0.72
Chrysene		M	2800	mg/kg	0.10	0.56	1.6	0.70	0.63	0.68	0.93	0.96	0.75
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.0	2.5	1.1	1.4	1.1	1.5	1.7	1.3
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.34	1.9	0.38	0.43	0.43	0.64	0.50	0.48
Benzo[a]pyrene		M	2800	mg/kg	0.10	0.79	2.1	0.99	1.2	0.96	1.2	1.5	1.1
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	0.85
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	1.4	< 0.10	< 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	0.85
Total Of 16 PAH's		N	2800	mg/kg	2.0	6.9	21	7.7	8.9	7.9	12	12	9.2

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	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	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	9.5
Soil Colour		N	2040		N/A	Brown	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	Stones and Brick
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	0.12	< 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	1.8	3.4	< 1.0	< 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	27	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	20	31
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	74	61	29	< 5.0	< 5.0	< 5.0	48	86
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	74	61	29	< 10	< 10	< 10	48	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	< 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	< 1.0	< 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	23
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	19	25	29	11	< 2.0	6.4	20	31
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	41
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	26	34	47	20	< 5.0	11	25	54
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	73	82	73	22	< 10	11	110	96
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	100	94	76	25	< 10	15	73	140
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	150	140	100	27	< 10	15	160	180
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.:	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	8.7	43	9.2
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones and Roots	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	< 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	3.5
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	25	< 2.0	9.3	28
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	9.3	3.1	4.8	18
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	35	< 5.0	14	51
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	35	< 10	14	51
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	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	6.9	3.0	3.9	5.5
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	10	5.5	7.8	13
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	8.2	1.1	1.8	29
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	17	8.4	12	18
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	25	< 10	14	48
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	52	13	26	69
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	60	14	28	99
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 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	< 0.10	< 0.10	< 0.10
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	0.91	0.39	0.52	0.51
Anthracene		M	2800	mg/kg	0.10	0.32	0.22	0.24	0.26
Fluoranthene		M	2800	mg/kg	0.10	2.4	1.5	1.8	2.1
Pyrene		M	2800	mg/kg	0.10	2.1	1.5	1.6	1.9
Benzo[a]anthracene		M	2800	mg/kg	0.10	1.3	0.82	0.93	1.2
Chrysene		M	2800	mg/kg	0.10	1.2	0.65	1.1	1.3
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	2.0	1.6	1.7	2.3
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.71	0.58	0.54	0.82
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.7	1.3	1.4	2.0
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	1.3	1.0	1.3	1.5
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	0.21	< 0.10	0.33
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	1.3	1.2	1.3	1.7
Total Of 16 PAH's		N	2800	mg/kg	2.0	15	11	12	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	
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

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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

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

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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:





Final Report

Report No.: 24-27049-1

Initial Date of Issue: 02-Sep-2024

Re-Issue Details:

Client Sanctus Limited

Client Address:



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:



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-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	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	1.2
Pyrene		U	2800	mg/kg	0.10	1.1
Benzo[a]anthracene		U	2800	mg/kg	0.10	0.72
Chrysene		U	2800	mg/kg	0.10	0.75
Benzo[b]fluoranthene		U	2800	mg/kg	0.10	1.1
Benzo[k]fluoranthene		U	2800	mg/kg	0.10	0.40
Benzo[a]pyrene		U	2800	mg/kg	0.10	0.88
Indeno(1,2,3-c,d)Pyrene		U	2800	mg/kg	0.10	0.70
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10
Benzo[g,h,i]perylene		U	2800	mg/kg	0.10	0.74
Total Of 16 PAH's		N	2800	mg/kg	2.0	8.4

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	

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U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
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For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

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-
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 - B - Sample age exceeds stability time (sampling to extraction)
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 - D - Broken Container
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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.

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

Report Information

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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:



**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:

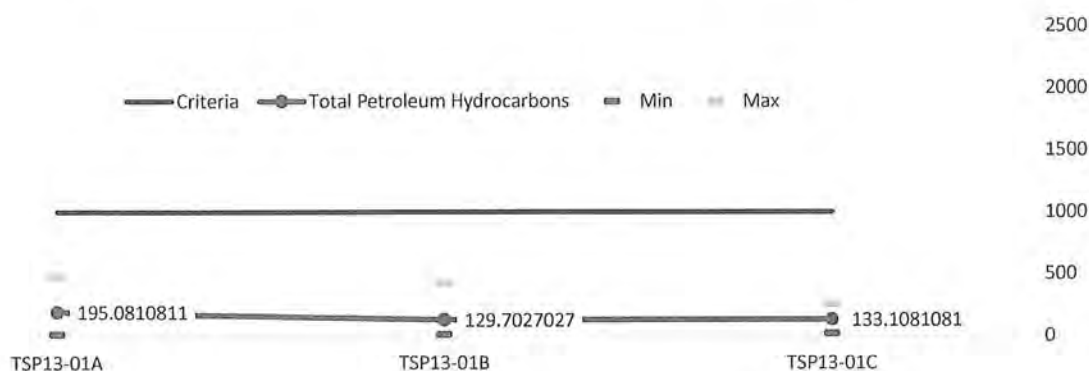
Test Results: PASS / FAIL

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

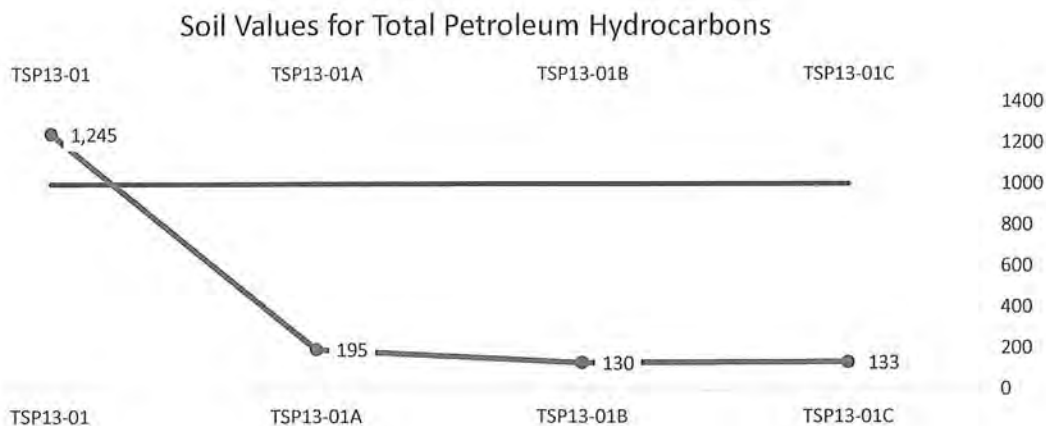
Data Trend for Total TPH levels:

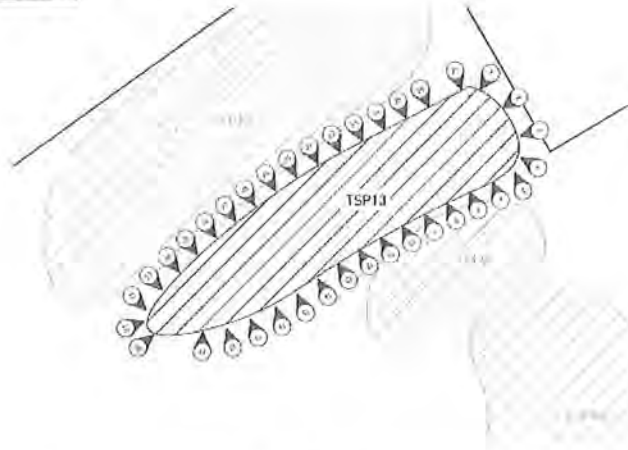
Min & Max Soil Values for Total Petroleum Hydrocarbons



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.



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.



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

TSP04

TSP03

Site Overview:

Area of Interest

Scale: 1:12,500

sanctus

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 13 Sample Locations

Contract No:
S3240

Drawing No:
D3240/104

Scale @ A3:
1:500

1 of 4



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: 

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: 

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	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	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	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):	0.00	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	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	10
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 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	5.4	2.6	4.9	4.3	3.1	4.8	2.9	2.8
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	27	14	14	11	16	17	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	33	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	19	< 3.0
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	84	43	53	24	39	67	71	31
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	84	43	53	24	39	67	71	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	< 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	9.7	< 1.0	1.9	< 1.0	< 1.0	< 1.0	4.0	< 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	6.3
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	< 2.0
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	< 1.0
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	77	20	22	13	7.5	40	41	8.3
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	80	20	22	13	< 10	47	43	< 10
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	160	63	75	37	46	110	110	40
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	160	63	75	37	47	110	110	40
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.:	24-26562	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	340
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	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	9.0	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	1853103	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	TSP13-32A	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*; 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

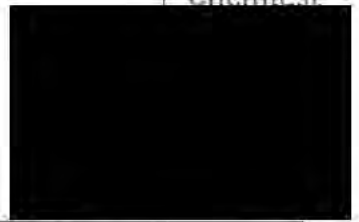
NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

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:





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:



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	1854577	1854578
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	TSP13-09B	TSP13-10B
		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):	1.7	1.75	1.6	1.75	1.6	1.75	1.55	1.7	1.7	1.7
		Bottom Depth (m):	1.7	1.75	1.6	1.75	1.6	1.75	1.55	1.7	1.7	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	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 >C8-C10 (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	1854577	1854578
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	TSP13-09B	TSP13-10B
		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):	1.7	1.75	1.6	1.75	1.6	1.75	1.55	1.7	1.7	1.7
		Bottom Depth (m):	1.7	1.75	1.6	1.75	1.6	1.75	1.55	1.7	1.7	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	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	TSP13	TSP13
		Sample Type:	SOIL	SOIL	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	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
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							
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	< 0.10	0.56	0.66	0.23	< 0.10	0.42	0.33
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.21	0.15	< 0.10	0.19	0.16
Fluoranthene		M	2800	mg/kg	0.10	1.1	1.3	1.5	0.93	< 0.10	1.4	1.3
Pyrene		M	2800	mg/kg	0.10	1.1	1.2	1.4	0.94	< 0.10	1.1	1.3
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.58	0.60	0.80	0.52	< 0.10	0.63	0.71
Chrysene		M	2800	mg/kg	0.10	0.63	0.68	0.83	0.57	< 0.10	0.69	0.75
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.3	1.3	1.5	1.1	< 0.10	1.2	1.3
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.38	0.46	0.44	0.35	< 0.10	0.38	0.46
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.1	1.1	1.2	0.89	< 0.10	1.0	1.1
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
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	0.91	0.93	0.99	0.80	< 0.10	0.88	0.86
Total Of 16 PAH's		N	2800	mg/kg	2.0	8.0	9.0	11	7.2	< 2.0	8.7	9.0

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.:	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	TSP13	TSP13
		Sample Type:	SOIL	SOIL	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	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
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							
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	6.5	0.88	0.44	1.4	0.49	0.22	0.38
Anthracene		M	2800	mg/kg	0.10	1.8	0.48	0.18	0.42	0.24	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	24	3.7	1.7	2.9	2.1	1.1	1.5
Pyrene		M	2800	mg/kg	0.10	20	3.4	1.6	2.4	1.8	1.0	1.3
Benzo[a]anthracene		M	2800	mg/kg	0.10	9.8	1.8	0.93	1.2	0.99	0.58	0.78
Chrysene		M	2800	mg/kg	0.10	8.6	1.8	1.0	1.2	1.0	0.54	0.81
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	13	2.9	1.5	1.9	1.7	1.1	1.5
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	4.3	1.1	0.56	0.58	0.58	0.33	0.47
Benzo[a]pyrene		M	2800	mg/kg	0.10	12	2.6	1.3	1.4	1.4	0.98	1.2
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
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	1.2	< 0.10	< 0.10	< 0.10	< 0.10	0.12	< 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
Total Of 16 PAH's		N	2800	mg/kg	2.0	120	23	11	16	12	7.6	10

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
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	TSP13	TSP13
		Sample Type:	SOIL	SOIL	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	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	0.41	< 0.10	0.57	0.42	0.41	0.47	0.79
Anthracene		M	2800	mg/kg	0.10	0.24	< 0.10	0.34	0.17	0.24	0.28	0.55
Fluoranthene		M	2800	mg/kg	0.10	1.7	0.83	2.5	1.6	1.4	2.3	2.5
Pyrene		M	2800	mg/kg	0.10	1.6	0.86	2.4	1.4	1.3	2.2	2.5
Benzo[a]anthracene		M	2800	mg/kg	0.10	1.0	< 0.10	2.0	0.64	0.88	1.2	1.8
Chrysene		M	2800	mg/kg	0.10	1.1	< 0.10	1.9	0.68	0.80	1.3	2.0
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.8	< 0.10	3.0	1.2	1.4	2.7	2.8
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.65	< 0.10	1.9	0.44	0.58	0.75	1.7
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.7	< 0.10	2.4	0.92	1.2	2.3	2.3
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
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.32	< 0.10	1.5	< 0.10	0.35	< 0.10	1.2
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
Total Of 16 PAH's		N	2800	mg/kg	2.0	14	< 2.0	24	8.9	11	17	23

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
Soil Colour		N	2040		N/A	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones
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	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	20	18
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	68	44
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	69	42
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	11
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	160	100
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	160	120
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	5.0	7.3
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	24	82
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	34	83
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	31	22
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	63	170
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	94	190
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	220	280
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	250	310
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: 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

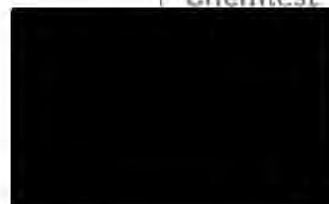
NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

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:





Final Report

Report No.: 24-28143-1

Initial Date of Issue: 05-Sep-2024

Re-Issue Details:

Client Sanctus Limited

Client Address:



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:



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
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							
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	0.41	0.54	0.28	0.51	0.31	0.24	0.56
Anthracene		M	2800	mg/kg	0.10	0.18	< 0.10	< 0.10	0.30	0.22	0.19	0.33
Fluoranthene		M	2800	mg/kg	0.10	1.3	1.6	1.0	1.8	1.5	0.92	2.1
Pyrene		M	2800	mg/kg	0.10	1.2	1.4	1.0	1.7	1.4	0.92	1.9
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.57	0.74	0.51	1.2	0.82	0.50	1.1
Chrysene		M	2800	mg/kg	0.10	0.64	0.80	0.57	1.1	0.82	0.63	1.1
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.2	1.4	1.1	1.9	1.5	0.98	2.0
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.43	0.49	0.36	0.92	0.52	0.35	0.73
Benzo[a]pyrene		M	2800	mg/kg	0.10	0.97	1.2	0.89	1.6	1.4	0.82	1.7
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
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.57	< 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
Total Of 16 PAH's		N	2800	mg/kg	2.0	8.6	10	7.2	15	11	7.1	14

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	15	18	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	11	< 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
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							
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	0.90	0.87	0.74	0.23	0.60	0.38	0.38
Anthracene		M	2800	mg/kg	0.10	0.58	0.50	0.49	< 0.10	0.29	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	2.4	3.2	2.9	0.87	2.1	1.5	2.0
Pyrene		M	2800	mg/kg	0.10	2.1	2.6	2.5	0.83	1.8	1.4	1.7
Benzo[a]anthracene		M	2800	mg/kg	0.10	1.3	1.9	1.6	0.47	0.88	0.84	0.91
Chrysene		M	2800	mg/kg	0.10	1.4	1.9	1.6	0.57	0.94	0.87	0.68
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.8	2.9	2.5	0.88	1.5	1.5	1.7
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.76	1.3	1.2	0.33	0.54	0.68	0.50
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.5	2.5	2.1	0.77	1.5	1.2	1.2
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
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.44	0.62	0.52	< 0.10	< 0.10	0.43	0.21
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
Total Of 16 PAH's		N	2800	mg/kg	2.0	16	22	20	6.2	12	11	12

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		
		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		
		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):	1.65	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		
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	0.80	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	160
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	46	110	69	71	25	37	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	1.3	< 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
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		
		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		
		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):	1.85	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		
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
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	0.98	0.60	0.40	0.47	0.26	1.7	0.79
Anthracene		M	2800	mg/kg	0.10	0.51	0.35	< 0.10	< 0.10	0.14	0.58	0.48
Fluoranthene		M	2800	mg/kg	0.10	3.3	2.6	1.6	1.8	0.90	4.1	3.2
Pyrene		M	2800	mg/kg	0.10	2.8	2.4	1.5	1.7	0.90	3.9	2.8
Benzo[a]anthracene		M	2800	mg/kg	0.10	1.7	1.5	1.2	1.1	0.49	2.2	1.5
Chrysene		M	2800	mg/kg	0.10	1.8	1.5	1.2	1.1	0.44	2.5	1.6
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	2.8	2.6	1.8	2.1	1.1	4.4	3.1
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.94	0.78	1.1	0.77	0.34	1.3	1.1
Benzo[a]pyrene		M	2800	mg/kg	0.10	2.2	2.2	1.6	1.9	0.91	4.2	2.5
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
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	0.62	0.30	< 0.10	0.51	< 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
Total Of 16 PAH's		N	2800	mg/kg	2.0	20	18	14	14	7.3	32	21

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*; 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:

[REDACTED]

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

Stockpile ID

Stockpile ID: TSP13

Material Volume:

4,000 m³

Validation Samples Included

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:

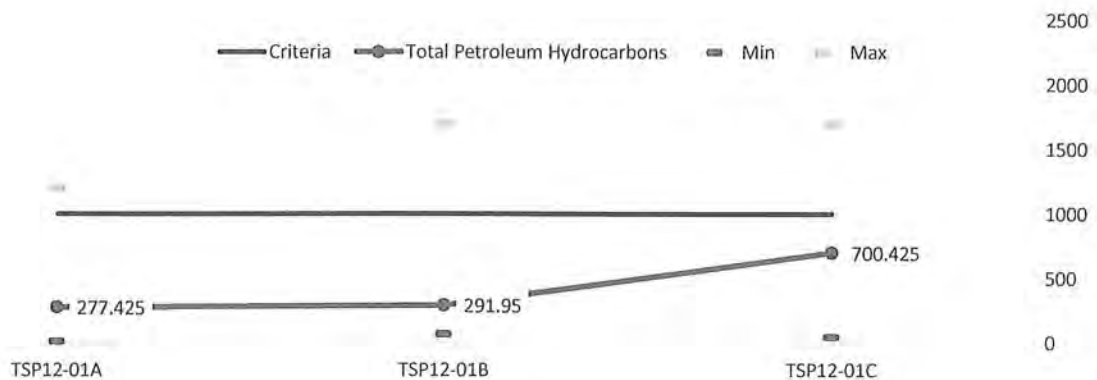
Test Results: PASS / FAIL

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:

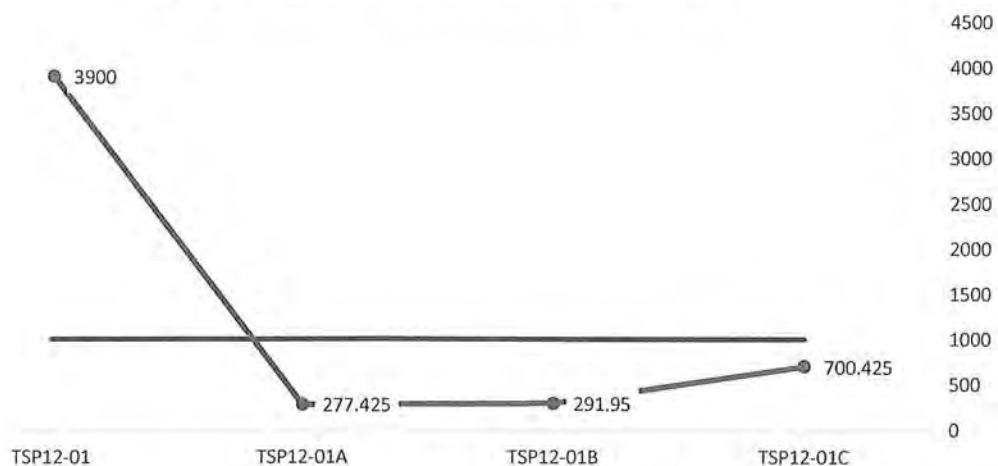
Min & Max Soil Values for Total Petroleum Hydrocarbons

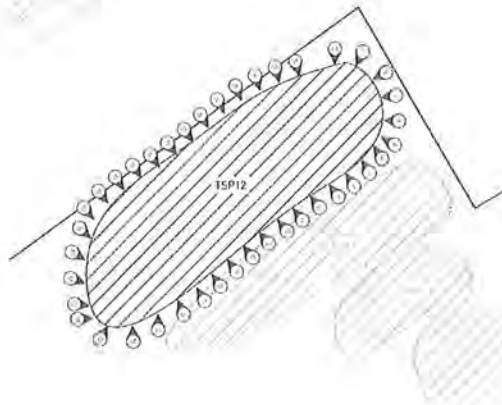


Additional Trendline Data – long term review:

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.



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

Drawing Notes:
Based on client supplied DWG -
AR08055AN 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 12 Sample Locations		
Contract No: 53240	Drawing No: 03240/103	Scale @ A3: 1:500

[illegible]



Final Report

Report No.: 24-27293-1
Initial Date of Issue: 29-Aug-2024

Re-Issue Details:

Client Sanctus Limited

Client Address:



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:



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	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	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	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):	1.55	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	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	0.15
Acenaphthylene		N	2800	mg/kg	0.10	0.15	0.11	< 0.10	< 0.10	0.11	< 0.10	0.13	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	0.17	0.11	< 0.10	< 0.10	0.16	< 0.10	0.15	< 0.10
Phenanthrene		U	2800	mg/kg	0.10	0.70	0.51	0.64	0.44	0.92	0.34	1.7	0.69
Anthracene		U	2800	mg/kg	0.10	0.26	0.19	0.29	0.19	0.45	0.18	0.58	0.30
Fluoranthene		U	2800	mg/kg	0.10	1.8	1.2	1.3	1.3	1.9	0.87	3.9	1.8
Pyrene		U	2800	mg/kg	0.10	1.6	1.2	1.2	1.3	1.8	0.83	3.3	1.6
Benzo[a]anthracene		U	2800	mg/kg	0.10	0.98	0.71	0.70	0.84	1.0	0.46	1.9	1.1
Chrysene		U	2800	mg/kg	0.10	0.91	0.71	0.74	0.88	1.1	0.50	1.9	1.1
Benzo[b]fluoranthene		U	2800	mg/kg	0.10	1.8	1.4	1.2	1.4	1.2	0.82	2.6	2.0
Benzo[k]fluoranthene		U	2800	mg/kg	0.10	0.61	0.47	0.38	0.50	0.58	0.29	0.99	0.66
Benzo[a]pyrene		U	2800	mg/kg	0.10	1.4	1.1	1.0	1.2	1.4	0.62	2.2	1.7
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	1.2
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	0.18	< 0.10	0.18	0.27	< 0.10	0.28	0.27
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	1.1
Total Of 16 PAH's		N	2800	mg/kg	2.0	13	9.9	9.3	10	14	6.2	23	14

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
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							
Naphthalene		U	2800	mg/kg	0.10	0.13	0.28	0.17	< 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
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	0.15	< 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
Anthracene		U	2800	mg/kg	0.10	0.16	0.46	1.1	0.21	0.25	0.20	0.18
Fluoranthene		U	2800	mg/kg	0.10	1.1	2.6	8.4	1.0	1.5	1.3	1.1
Pyrene		U	2800	mg/kg	0.10	0.98	2.3	6.7	1.1	1.4	1.2	1.0
Benzo[a]anthracene		U	2800	mg/kg	0.10	0.51	1.5	3.3	0.65	0.82	0.72	0.58
Chrysene		U	2800	mg/kg	0.10	0.57	1.4	3.1	0.65	0.91	0.81	0.68
Benzo[b]fluoranthene		U	2800	mg/kg	0.10	0.96	2.3	4.5	1.2	1.6	1.3	1.0
Benzo[k]fluoranthene		U	2800	mg/kg	0.10	0.31	0.83	1.6	0.46	0.48	0.52	0.40
Benzo[a]pyrene		U	2800	mg/kg	0.10	0.79	1.7	3.9	0.96	0.97	1.0	0.77
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
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.13	< 0.10	0.47	< 0.10	0.22	< 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
Total Of 16 PAH's		N	2800	mg/kg	2.0	7.3	17	43	8.3	11	9.2	7.4

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	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):	1.70	1.80	1.60	1.50	1.50	1.55	1.40	1.40	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	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
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	53	2.5	3.5	3.4	5.2	7.7	4.5
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
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	U	2690	mg/kg	2.00	200	28	< 2.0	< 2.0	31	110	19
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	U	2690	mg/kg	3.00	170	12	< 3.0	< 3.0	26	88	15
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	16	< 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
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	590	48	< 10	< 10	93	280	48
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	3.3	< 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
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	77	19	5.8	4.5	26	61	19
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
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	21	< 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
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	160	25	< 10	< 10	43	150	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	700	73	15	11	140	360	81
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	740	73	15	11	140	420	83
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.:	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	< 0.10
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	0.26	< 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	3.8
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
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								
Moisture		N	2030	%	0.020	15	18	17	18	17	13	14	6.3
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	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	3.5	5.0	4.3	4.7	2.9	4.5	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	4.3	15
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	U	2690	mg/kg	2.00	15	35	36	46	77	19	15	30
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	U	2690	mg/kg	3.00	11	24	23	30	90	13	7.1	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	U	2690	mg/kg	5.00	33	80	80	100	180	45	31	77
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	33	80	80	100	180	45	31	77
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	< 1.0	4.9	3.6	4.8	< 1.0	1.6	< 1.0	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	40
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	26
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	16
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	25	58	56	65	17	36	18	71
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	26	63	68	81	22	40	18	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	58	140	140	170	200	81	48	150
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	59	140	150	180	200	84	48	160
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.:	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*; 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:





Final Report

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

Re-Issue Details:

Client: Sanctus Limited
Client Address:



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:



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	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							
Moisture		N	2030	%	0.020	11	10	13	9.7	23	13	7.8
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	3.8	3.5	3.4	17	4.0	3.5	4.8
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	17	14	30	54	15	6.3	96
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	50	47	76	100	74	57	700
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	40	30	61	90	62	65	560
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10	16	< 10	110
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	110	95	170	260	160	130	1400
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	110	95	170	260	170	130	1500
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	4.2	2.7	7.2	4.7	2.6	< 1.0	22
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	40	30	29	20	17	5.1	180
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	33	31	26	15	26	9.3	35
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	40	38	22	57	54	3.2	17
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	78	63	63	40	46	14	240
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	120	100	85	97	100	18	260
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	160	230	300	200	150	1600
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	230	200	250	360	270	150	1700
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	0.12	< 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.:	1859745	1859746	1859747	1859748	1859749	1859750	1859751	1859752			
Order No.: S3240		Client Sample Ref.:	TSP12	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	TSP12	TSP12	TSP12
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0	0	0	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	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	0.18	< 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	0.34	0.15	0.40	0.20	0.25	0.23	1.0	< 0.10
Anthracene		M	2800	mg/kg	0.10	0.18	0.10	0.22	0.15	0.13	0.13	0.37	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	0.68	0.68	1.3	0.75	0.76	0.69	1.8	0.35
Pyrene		M	2800	mg/kg	0.10	0.73	0.73	1.2	0.79	0.70	0.78	1.6	0.37
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.40	0.38	0.71	0.42	0.42	0.42	0.88	0.21
Chrysene		M	2800	mg/kg	0.10	0.42	0.40	0.66	0.54	0.38	0.44	0.84	0.25
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	0.72	0.74	0.96	0.95	0.68	0.73	1.2	0.42
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.27	0.22	0.33	0.29	0.23	0.24	0.51	0.12
Benzo[a]pyrene		M	2800	mg/kg	0.10	0.58	0.67	0.79	0.78	0.62	0.65	1.1	0.31
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	0.27
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.23	< 0.10
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	0.29
Total Of 16 PAH's		N	2800	mg/kg	2.0	5.4	5.2	7.8	6.1	5.1	5.4	11	2.6

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	1859768	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	TSP12-24B	TSP12-24B
		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	0	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	1.60	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	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	2.5
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	49
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	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	< 0.10
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	1.1	0.49	1.1	0.29	0.31	0.31	0.50
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:





Final Report

Report No.: 24-28559-1

Initial Date of Issue: 10-Sep-2024

Re-Issue Details:

Client Sanctus Limited

Client Address:



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:



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											
Quotation No.: Q24-35340		Chemtest Sample ID.: 1861882											
Order No.: S3240		Client Sample Ref.: TSP12											
		Client Sample ID.: TSP12-01C											
		Sample Location: TSP12											
		Sample Type: SOIL											
		Top Depth (m): 0.00											
		Bottom Depth (m): 1.70											
		Date Sampled: 03-Sep-2024											
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Moisture		N	2030	%	0.020	12	12	12	13	12	13	11	13
Soil Colour		N	2040		N/A	Brown	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	Stones and Brick
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	80	100	87	100	< 1.0	72	59	150
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	240	240	210	210	40	160	130	290
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	140	190	130	150	< 3.0	120	92	240
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	25	32	23	24	< 10	21	22	69
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	460	530	420	460	41	350	280	680
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	490	560	450	490	41	370	310	750
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	0.13
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	23	29	27	30	< 1.0	29	33	25
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	55	93	120	87	6.1	73	59	100
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	47	42	110	45	< 2.0	30	29	65
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	86
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	130	160	250	160	6.3	130	120	190
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	140	190	270	190	< 10	140	120	280
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	590	690	670	620	47	480	400	870
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	630	750	720	680	47	500	430	1000
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.:	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	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):	1.70	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	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	1861898	1861899	1861900
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	TSP12-17C	TSP12-18C	TSP12-19C
		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	1.65	1.70	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	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	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								
Moisture		N	2030	%	0.020	12	12	12	12	12	12	11	14
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	2.1	13	10	13	12
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	93	56	120	120	89	98	130	120
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	200	100	310	250	210	270	230	300
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	150	63	230	240	130	200	160	210
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	23	15	36	47	22	18	10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	440	220	660	610	440	580	540	650
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	460	240	690	660	460	600	550	650
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	< 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	28	20	25	28	13	15	19	16
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	75	41	76	83	54	52	66	49
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	39	16	40	34	42	49	44	68
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	3.0	1.3	24	22	39	61	54	110
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	140	77	140	140	110	120	130	130
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	140	78	160	170	150	180	180	240
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	580	300	800	760	550	700	660	780
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	610	310	860	830	610	780	730	890
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.:	1861898	1861899	1861900	1861901	1861902	1861903	1861904	1861905			
Order No.: S3240		Client Sample Ref.:	TSP12	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			
		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	< 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	0.33	0.54	0.26	0.79	0.42	0.50	0.31
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.26	0.21	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	0.88	0.99	1.5	0.70	1.6	1.2	1.5	0.90
Pyrene		M	2800	mg/kg	0.10	0.98	0.98	1.3	0.76	1.4	1.3	1.4	0.94
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.62	0.55	0.68	0.41	0.78	0.70	0.77	0.46
Chrysene		M	2800	mg/kg	0.10	0.67	0.65	0.74	0.55	0.92	0.85	0.87	0.55
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.1	1.1	1.4	0.80	1.5	1.5	1.4	1.0
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.43	0.37	0.52	0.32	0.48	0.52	0.46	0.39
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.0	0.83	1.2	0.62	1.1	1.1	1.1	0.90
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	0.70
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	0.78	0.64	0.89	0.49	0.94	0.91	0.88	0.64
Total Of 16 PAH's		N	2800	mg/kg	2.0	7.3	7.0	10	5.4	11	9.7	10	6.8

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						
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	130
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	350	220	390	270	330	370
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	240	160	280	250	240	400
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
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	0.18
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	0.15	< 0.10	< 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	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	0.14	0.48	< 0.10	< 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	0.49
Anthracene		M	2800	mg/kg	0.10	0.35	0.20	0.49	0.19	0.21	0.27	0.19
Fluoranthene		M	2800	mg/kg	0.10	2.2	1.3	2.3	1.5	1.8	2.0	1.6
Pyrene		M	2800	mg/kg	0.10	1.9	1.1	1.9	1.3	1.6	1.8	1.5
Benzo[a]anthracene		M	2800	mg/kg	0.10	1.1	0.66	1.0	0.85	0.87	0.90	0.93
Chrysene		M	2800	mg/kg	0.10	1.1	0.57	1.0	0.91	0.67	0.97	0.90
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.8	1.2	1.6	1.3	1.4	1.4	1.6
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.57	0.44	0.64	0.44	0.48	0.55	0.56
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.3	0.88	1.4	0.98	1.1	1.4	1.3
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	0.98
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.18	0.18	0.26	0.13	0.13	< 0.10	0.22
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	1.0	0.83	0.96	0.78	0.86	0.96	0.97
Total Of 16 PAH's		N	2800	mg/kg	2.0	13	9.3	16	9.6	11	12	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
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	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	12
Soil Colour		N	2040		N/A	Brown	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	Stones, Roots 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	7.7	3.3	4.6	20	12	13	14
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	77	52	68	84	99	100	99
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	170	95	110	190	270	290	280
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	110	72	80	110	200	210	150
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	12	13	< 10	13	14	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	360	220	270	400	580	610	550
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	360	230	280	400	600	630	550
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	1.8	< 1.0	< 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	13
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	27	26	35	53	59	47	72
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	34	24	32	44	58	44	130
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	44	29	36	97	60	59	260
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	69	57	73	120	130	110	210
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	110	87	110	220	190	170	470
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	430	280	340	520	710	720	760
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	470	320	390	620	790	790	1000
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
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		
		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							
Naphthalene		M	2800	mg/kg	0.10	0.35	0.21	< 0.10	0.24	0.20	0.19	0.17
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	0.44	0.43	1.2	0.28	0.37	0.35	0.39
Anthracene		M	2800	mg/kg	0.10	0.20	0.21	0.50	0.14	0.19	0.20	0.21
Fluoranthene		M	2800	mg/kg	0.10	1.7	1.6	2.8	0.85	1.1	1.0	2.1
Pyrene		M	2800	mg/kg	0.10	1.5	1.5	2.3	0.83	0.99	0.93	1.8
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.93	0.87	1.3	0.45	0.56	0.53	0.90
Chrysene		M	2800	mg/kg	0.10	0.91	0.84	1.3	0.54	0.58	0.44	0.90
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.5	1.5	2.0	1.1	1.0	0.97	1.4
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.51	0.58	0.72	0.32	0.31	0.29	0.47
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.3	1.1	1.6	0.86	0.81	0.76	1.3
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	0.73
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.17	0.20	< 0.10	< 0.10	< 0.10	< 0.10	0.17
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.80	0.80	1.1	0.68	0.67	0.67	0.84
Total Of 16 PAH's		N	2800	ma/ka	2.0	11	11	16	6.9	7.4	6.9	11

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*; 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:



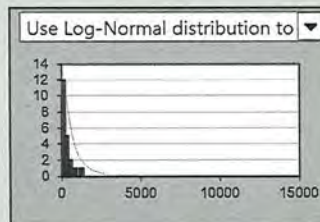
Test Results

Client/client ref: Sanctus
Project ref: S3240

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

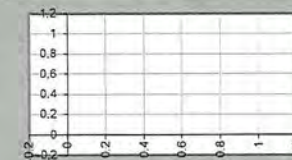
Date: 30-Aug-2024
User details: JRA

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

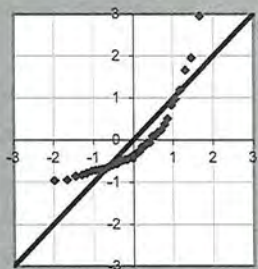


Normality test

Significance level 5%

Non-normal distribution

Use: Auto: Chebychev



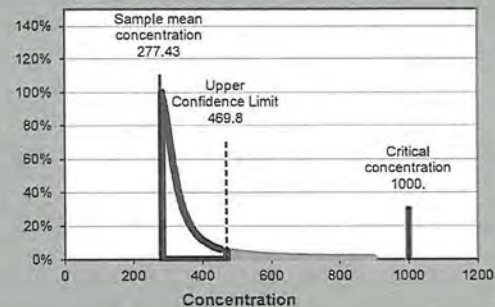
Test scenario:

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

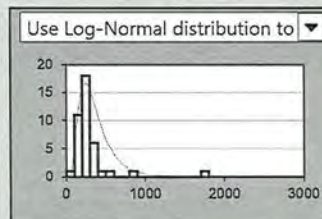
Client/client ref: Sanctus
Project ref: S3240

Site ref: Ardrossan

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

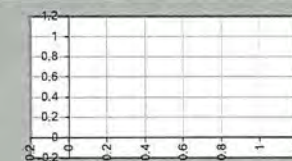
Date: 10-Sep-2024

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

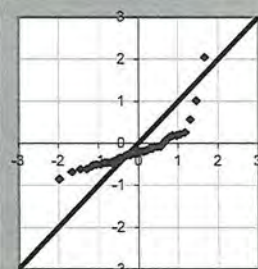


Normality test

Significance level 5%

Non-normal distribution

Use: Auto: Chebychev



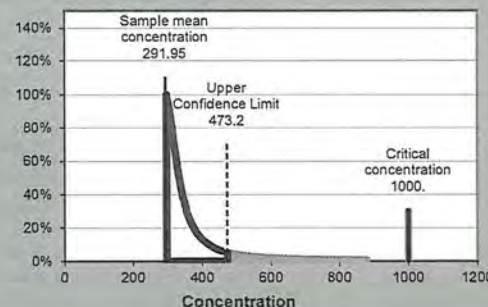
Test scenario:

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)

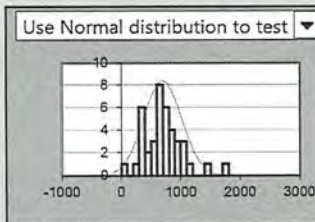
Test Results

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

