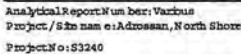
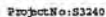


Appendix I Sanctus Stockpile Screening and Chemical Analysis

[illegible]

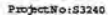
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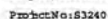
[illegible]



Petroleum Hydrocarbons

[illegible]

[illegible]



Abstract

Petrolium Hydrocarbons[illegible]

Seneca	g/ha	5	1	1	1	1	105	0	1	5.00	4.08
Taleno	g/ha	5	1	1	1	1	105	0	1	5.00	4.08
Phylloscopa	g/ha	5	1	1	1	1	105	0	1	5.00	4.08
g & m - g/ha	g/ha	5	1	1	1	1	105	0	1	5.00	4.08
Corvina	g/ha	5	1	1	1	1	105	0	1	5.00	4.08
MTB Math (Temporary Budget)	g/ha	5	1	1	1	1	105	0	1	5.00	4.08

Appendix J Area 20 Investigation.

		Trial Pit Log									
Project Name: Ardrossan North Shore				Client: North Ayrshire Council				Date: 10/09/2024			
Location: Ardrossan, Scotland						Easting: 222866.23		Northing: 642759.61			
Project No.: S3240 Remediation				Equipment: 20t 360 Excavator							
Location Number STP21		Location Type TP		Level 4.32m AoD		Logged By PMcD		Scale 1:25		Page Number Sheet 1 of 1	

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth (m)	Type	Results					
							Dark brown to reddish brown, clayey, gravelly, SAND. Sand is fine to coarse. Gravels are angular to subrounded, fine to coarse, comprising red brick, concrete, flint and granite. (Engineered Fill of TSP05).	1
				2.20	2.12		Yellowish brown to greenish yellow, SAND. Sand is fine to medium, with occasional shell fragments. Slight organic odour at 3.00.	2
	3.00 - 3.60	ES						3
				3.60	0.72		End of Trial Pit at 3.60m	4
								5

Dimensions		Trench Support and Comment		
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks
2.20	1.80	Spalling material sat 2.20m.	None	No Hydrocarbon type Odour or Staining Noted. Slight Organic Odour noted at 3.00m.

Remarks - Machine Excavated. - Logged for Environmental Purposes Only. - No Groundwater encountered. - Backfilled with arisings.	
---	--



Plate No.: 1

Title.: Trial Pit STP21, Located within Area 20, to maximum depth of 3.60m bgl



Plate No.: 2

Title.: Arisings from STP21 from 0.00 – 3.60m bgl.



Contract No.: S3240

Date: 16/09/2024

Contract Name: Ardrossan, North Shore



Final Report

Report No.: 24-29534-1

Initial Date of Issue: 17-Sep-2024

Re-Issue Details:

Client Sanctus Limited

Client Address:

Contact(s): Labs

Project 3240 Ardossan North Shore

Quotation No.: Q24-35340

Date Received: 13-Sep-2024

Order No.: S3240

Date Instructed: 13-Sep-2024

No. of Samples: 1

Turnaround (Wkdays): 3

Results Due: 17-Sep-2024

Date Approved: 17-Sep-2024

Approved By:

Details: [Redacted], Technical Director

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

Results - Soil

Project: 3240 Ardossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				24-29534
Quotation No.: Q24-35340		Chemtest Sample ID.:				1865965
Order No.: S3240		Client Sample Ref.:				STP
		Client Sample ID.:				STP21
		Sample Location:				STP21
		Sample Type:				SOIL
		Top Depth (m):				3.00
		Bottom Depth (m):				3.60
		Date Sampled:				10-Sep-2024
		Asbestos Lab:				DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
ACM Type		U	2192		N/A	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected
Moisture		N	2030	%	0.020	7.5
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	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	18
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	44
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	29
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	91
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	91
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	12
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	52
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	5.9
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	100
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	110
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	190
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	200
Benzene		M	2760	µg/kg	1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0

Results - Soil

Project: 3240 Ardossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				24-29534
Quotation No.: Q24-35340		Chemtest Sample ID.:				1865965
Order No.: S3240		Client Sample Ref.:				STP
		Client Sample ID.:				STP21
		Sample Location:				STP21
		Sample Type:				SOIL
		Top Depth (m):				3.00
		Bottom Depth (m):				3.60
		Date Sampled:				10-Sep-2024
		Asbestos Lab:				DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
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
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.98
Anthracene		M	2800	mg/kg	0.10	0.33
Fluoranthene		M	2800	mg/kg	0.10	1.3
Pyrene		M	2800	mg/kg	0.10	1.0
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.40
Chrysene		M	2800	mg/kg	0.10	0.30
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	4.3

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	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35–C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35–C40	Acetone/Heptane extraction / GCxGC FID detection	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics. (cf. USEPA Method 8260) *please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7, >C7–C8, >C8–C10 Aromatics: >C5–C7, >C7–C8, >C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenzo[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	

Report Information

Key

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

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

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

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

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

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

All results are expressed on a dry weight basis.

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

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

All Asbestos testing is performed at the indicated laboratory.

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

Sample Deviation Codes

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

Sample Retention and Disposal

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

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

Charges may apply to extended sample storage.

Water Sample Category Key for Accreditation

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

Report Information

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

Clean Up Codes

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

HWOL Acronym System

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

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

**Appendix G S3240-015 Phase 03 Verification Report:
S3240-017**



Phase 03 Verification Report

Ardrossan, North Shore



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

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Disclaimer

Sanctus Limited has prepared this Verification Report relating to the sectional hand over of Phase 03 of the Ardrossan North Shore site on the instruction of North Ayrshire Council (Client). This document is for the sole specific use of the Client and for the particular project as referred to herein. Copies may be passed to third parties only with the express written permission of Sanctus and then no professional liability or warranty will be extended to such parties without the express written confirmation of Sanctus.

Document Reference: S3240-017 Phase 03				Issue: Issue C
Date:	Status:	Name:	Position:	Signature:
09/10/2024	Prepared By:		Remediation Surveyor	
21/10/2024	Checked By:		Senior Environmental Engineer	
22/11/2024	Authorised By:		Contracts Director	

Revision Status.			
Revision:	Date:	Sections Revised	Description of Revision:
Issue A			First revision following completion of Phase 03 works
Issue B	29/11/2024		Updated following regulator comments.
Issue C	11/03/2025	Section 6.0, D3240/098 & D3240/100.	Updated following regulator comments.

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1.0 Introduction

Sanctus limited have been appointed by North Ayrshire Council (NAC) (Client) to undertake the phased ground remediation of their site at Ardrossan North Shore (Site). The scheme involves the targeted excavation of known areas of elevated hydrocarbon contamination, de-watering and removal of NAPL (Non-Aqueous Phase Liquid – a free phase product) from ground water (if present) and the bioremediation of soils containing elevated Petroleum and Polycyclic Aromatic Hydrocarbon Contaminants to agreed, site suitable levels.

The report relates to the works completed between August 2024 and September 2024 and has been produced in accordance with the Verification measures, where appropriate, within Section 25.0 of the Remediation Strategy (1).

This report should be read in conjunction with the Phase 01 Verification Report (2), the Phase 02 Verification Report (3) and the Sanctus Remediation Strategy, Revision E (1).

This report details the remedial works completed within remediation Areas 21 and 22, as shown on the Sanctus' Drawings D3240/007, included within Appendix A.

All additional and future remediation works pertaining to Sanctus's scope of remediation works will be verified within addendum reports (anticipated references and dates are provided within Table 1-1).

Table 1-1: Addendum Verification Reporting Dates

Anticipated Report Reference	Report Description	Anticipated Production Date
S3240-018	Verification report addressing all remedial works completed at the Ardrossan north Shore Site	March 2025

Any remedial works, monitoring & verification that fall outside of the Sanctus Scope will be completed, verified and documented by the clients appointed follow on contractors and/or Environmental Consultant, EnviroCentre.

The works detailed below have been undertaken in accordance with the Sanctus produced Remediation Strategy, (1).

This document has been produced for review and acceptance by North Ayrshire Council (NAC), for the partial discharge planning condition 4 of application No. N/21/01161/PP.

A photographic log of the works completed are included within Appendix B, while photographs relating to the validation of groundwater, where encountered, are included separately within Appendix C.

2.0 Phase 03 Ground Remediation

The Phase 03 site portion is detailed on drawing D3240/007 Rev C. The anticipated ground remediation area extents have been identified based on historic site investigation data where either free phase product had been identified or soil contamination levels for hydrocarbon contaminants indicated that there was risk to the ground water environment. As part of the Phase 02 works, remediation Area 23, located within Phase 03, shown on Sanctus' Drawing D3240/007 Rev C, was also completed.

The remedial works completed in these areas include the following and are detailed within Section 3.0:

- Excavation across the targeted remediation areas (Areas 21 & 22) detailed on Sanctus' Drawing D3240/097, included within Appendix A, with overburden materials segregated for re-use following confirmation of suitability through laboratory analysis;
- Excavation and removal of hydrocarbon impacted soils and transport to the Sanctus Waste Treatment Area for bioremediation;
- Groundwater pumping and removal of encountered Free Phase hydrocarbons and sheens prior to treatment/subsequent discharge to foul sewer through an agreed trade effluent consent;
- Validation of groundwater and excavation extents against the Sanctus Remedial Criteria (Detailed within Appendix D);
- Reinstatement of remediation areas using site suitable materials (confirmed to pass the remedial target criteria through chemical analysis) to existing site levels; and
- Re-use of bioremediated soils within remediation areas, once confirmed as suitable for use and agreed with regulators;

During the remediation works, the excavation extents' anticipated locations and depths were variable, with such assumed positions detailed within Drawing D3240/007. The actual extents were surveyed and recorded and are detailed within Sanctus' Drawing S3240/097, as included in Appendix A. The interaction of the remediation areas and the proposed development are shown in Sanctus' Drawing D3240/028, included within Appendix A.

3.0 Completed Works

Anticipated excavation extents of hydrocarbon and free phase impacted soils/groundwater were identified and modelled prior to Sanctus' involvement, based on the historic site investigation data where groundwater or soils analysis indicated the presence of free phase hydrocarbon product or a potential risk to the groundwater environment and/or human health.

Although forming part of the Phase 03 works, Area 23 was adjoined to the Area 12 excavations. As such, the works related to Area 23 were completed within the Phase 02 works and subsequently verified within the Phase 02 verification report (3).

Hydrocarbon contaminated materials underlying overburden materials (further discussed within Section 6.0) were excavated to their full lateral and vertical extents within all targeted remedial areas. The impacted materials were transported and placed within the waste treatment areas for bioremediation treatment. All encountered groundwater was managed as detailed within Section 4.0.

On completion of the excavation and removal of impacted materials, the excavation extents were surveyed by Sanctus and representative excavation extent validation soil samples obtained in accordance with the Sanctus Remedial Strategy (1) Section 17.0. The validation results are summarised within the following sub-sections.

All excavation extents are shown on Sanctus' Drawing D3240/097, included within Appendix A. All soil validation locations for Area 21 and 22 are shown on Sanctus' Drawing D3240/098 and 100, included within Appendix A.

3.1 Area 21

Table 3-1: Area 21 soil validation location summary

Soil Validation ID	Depths (m bgl)	Description	Pass/ Fail
V404	0.00 - 3.50	Area 21 Excavation Base	Pass
V405	0.00 - 3.50	Area 21 Excavation Northern Face	Pass
V406	0.00 - 3.50	Area 21 Excavation Eastern Face	Pass
V407	0.00 - 3.50	Area 21 Excavation Southern Face	Pass
V408	0.00 - 3.50	Area 21 Excavation Western Face	Pass
V409	0.00 - 3.50	Area 21 Excavation Western Face	Pass

3.2 Area 22

Table 3-2: Area 22 soil validation location summary

Soil Validation ID	Depths (m bgl)	Description	Pass/ Fail
V410	0.00 - 2.80	Area 22 Excavation Base	Pass
V411	0.00 - 2.80	Area 22 Excavation Southern Face	Pass
V412	0.00 - 2.80	Area 22 Excavation Southern Face	Pass
V413	0.00 - 2.80	Area 22 Excavation Western Face	Pass
V414	0.00 - 2.80	Area 22 Excavation Western Face	Pass
V415	0.00 - 2.80	Area 22 Excavation Northern Face	Pass
V416	0.00 - 2.80	Area 22 Excavation Northern Face	Pass

Soil Validation ID	Depths (m bgl)	Description	Pass/ Fail
V417	0.00 – 3.20	Area 22 Excavation Eastern Face	Pass
V418	1.00-2.80	Area 22 Excavation Eastern Face	Pass
V419	1.00-2.80	Area 22 Excavation Northern Face	Pass
V420	0.00 – 2.80	Area 22 Excavation Base	Pass
V421	0.00 – 2.80	Area 22 Excavation Base	Pass
V422	0.00 – 3.20	Area 22 Excavation Base	Pass

3.3 Area 23

As part of the works undertaken within Phase 02, Area 23 was excavated, verified and reinstated with the Area 12 works and is covered within the Phase 02 verification report (3).

4.0 Groundwater

During these excavation works, removal of visually and olfactory impacted hydrocarbon soils occurred within the targeted remediation extents and the groundwater that was encountered was removed via pumping to facilitate the excavation and the reinstatement works.

Dewatered ground and surface waters were pumped through the Sanctus Water Treatment Equipment, detailed on Sanctus' Drawing D3240/009, included within Appendix A, prior to discharge to the foul sewer through the agreed trade effluent consent.

Table 4-1, below, summarises the durations target remediation areas were left open and groundwater removed and treated, where required. No visual free product or sheens were identified within the groundwater encountered during the Phase 03 works.

Table 4-1: Phase 03 Groundwater Summary

Sanctus Excavation ID and Area (m ²)	Duration of Excavated Area, whilst left open	Free Phase Product Description (When initially encountered)	Product Thickness (where quantifiable)	Area Recharge Rate (Qualitative)
Area 21	5 Days	N/A	N/A	Recharge to standing ground water level within 6 hours of 100mm Ø pump being switched off
Area 22	5 Days	N/A	N/A	Recharge to standing ground water level within 6 hours of 100mm Ø pump being switched off

The validation process, as detailed within Appendix J of the Sanctus Remediation Strategy (1) was followed, with the demonstrable validation evidence included within Appendix C. The bailer sample locations, used to demonstrate the absence of NAPL (Free product) within groundwater are shown on Sanctus' Drawings S3240/099 and 101 within Appendix A.

The bailer samples further demonstrated the visual absence of any measurable/demonstrable free product within all groundwater encountered within this phase of works. No sheens or visual free product was left within the excavations at the time of re-instatement.

5.0 Bio-Remediated Soils

Sanctus undertook the bioremediation of hydrocarbon impacted soils in accordance with Section 14.13 and 14.14 of the approved Remediation Strategy (1) and the Waste Management License, ref WML/L/5005884.

Previously successfully remediated soils within Treatment Stockpiles (TSPs) 05-11 & 13 were utilised within the backfill and reinstatement of Phase 02 excavations. Only TSP12 was re-used within the Phase 03 works. The demonstration of suitability and achieving the agreed remedial criteria for treatment stockpiles 05 to 11 & 13 was included within the Phase 02 verification. The demonstration of suitability for all materials will be included within the overall verification report. AT the time of issue the overall verification and treatment process is still ongoing.

The hydrocarbon impacted soils undergoing treatment were stockpiled within a designated quarantine area, prior to screening and processing to remove unsuitable materials i.e. wood, metals and concrete. This process also had the added benefit of disturbing the soil structure and oxygenating the treated soils whilst adding the dosing media.

The dosing was undertaken in accordance with the supplier's design and guidance, with each 50m³ of impacted soils dosed with 20 ltrs of Bio-8 Surge bio stimulant and 1 packet of Bio-8 Bacteria mixed within 1,000ltrs of water. Representative samples were then collected to obtain starting concentrations from the Treatment stockpiles.

The bioagent and growth medium were mixed with 1,000ltrs of water, a minimum of 2hours prior to application to allow time for activation and agitation. During the application the flow/dosing rate was continuously monitored by Sanctus there were no changes to dosing or application rates based upon areas of excavation and historic maximum TPH concentrations, as the chosen product and dosing rate was suitable for all anticipated concentrations following a review of the site investigation data.

Previously undertaken monitoring by Sanctus within the materials re-used within Phase 02, including Coliform Analysis, available Oxygen (O₂) and Carbon Dioxide (CO₂) and temperature monitoring throughout the treatment process demonstrated that the treated soils demonstrated microbial activity and that the reductions achieved in TPH were due to the

bioremediation and not through natural attenuation. This analysis and data presentation is included within Appendix G.

Following the degradation of the hydrocarbons present within the soils (as indicated by falling total petroleum hydrocarbons to <1,000mg/kg), samples were obtained at a frequency of 1 sample per 100m³, until 3no consecutive rounds passed the remedial criteria and were suitable for re-use without posing a risk to the groundwater environment or site end users.

The treatment process, sampling strategy and consecutive sampling rounds are summarised within stockpile specific declaration notices and submitted to NAC and SEPA to confirm no objection with the re-use of materials and that they passed the remedial criteria. No objection was raised following submission for the treated stockpiles detailed within Table 5-1, below.

Table 5-1: Bioremediated Stockpiles Summary

Sanctus Stockpile ID	Approximate Volume (m ³)	Sanctus Declaration Note Reference	Area of Re-use in Phase 03	Depth of Re-use (m AOD)
TSP12	4,000	010	Area 21 & Area 22	Area 21: 2.93-4.37 Area 22: 1.80-4.00

The materials were sampled, reviewed and deemed suitable in accordance with Sanctus Technical Note SL2274.3240.02 Rev B, included within Appendix F, and in line with the Sanctus Remediation Strategy (1). A copy of declaration notice 010 is also included within Appendix F.

6.0 Overburden Soils and Stockpiles

Overburden soils (generally above the contaminated layer of soil) were excavated, transported and stockpiled temporarily on site, prior to reuse. These materials were excavated in 500mm deep layers under an Environmental Watching Brief, conducted by a Sanctus Environmental Engineer.

The stockpiled overburden materials were then sampled at a frequency of 1 sample per 250m³, as per Section 17.0 of the Remediation Strategy (1) and assigned a unique Stockpile (SP) reference. The obtained soil analysis was screened against the Sanctus remedial criteria to confirm suitability for re-use. Materials failing the remedial criteria following chemical analysis were assessed as unsuitable for immediate re-use and were quarantined for further inspection prior to treatment. These materials were treated in accordance with the Remediation Strategy.

Soil samples obtained from SP076 (487m³), indicated laboratory results (references #1869055 and #1869056) failed the remedial criteria, due to the hydrocarbons exceeding the 1,000mg/kg cumulative total.

These soil analysis results for the stockpile SP076 were not consistent with the observed materials in the physical stockpile and did not demonstrate any visual or olfactoral hydrocarbon impact. Sanctus queried the analysis results with the laboratory, who conducted a further 3no tests per soil sample (laboratory references #1872373 -> #1872378), shown within the stockpile screening sheet included within Appendix H. No additional samples from SP076 were retrieved.

The re-tests indicated the samples were below the respective remedial criteria and confirmed the materials were suitable for re-use. No deviation codes were noted on the laboratory reports indicating that quality assurance of the samples was maintained. The chemical analysis is included within Appendix H.

SP077 (01-04) was formed of 981m³, which was demonstrated as suitable for re-use, based on the analysis achieving the remedial criteria.

Additional soils excavated from the same area of origin as those from SP077 (01-04), were placed in stockpile adjacent to SP077 (01-04). These materials were assigned the same SP

ID but were segregated from SP077 (01-04), due to a slight hydrocarbon type odour detected by the onsite engineer. This stockpile SP077 (05-08) represents an additional 864m³ of materials and the analysis results confirmed that the materials were unsuitable for re-use without treatment. All of the SP077 analysis is included within Appendix H.

The materials from SP077 (05-08) were sampled on the same date as SP077 (01-04), but due to their failure against the remedial criteria, were not re-used within the works and were transferred for bio treatment within the waste treatment area. These materials formed part of TSP024.

At the time of reporting TSP024 is undergoing bioremediation. The materials treatment and verification will be discussed within the Sanctus Phase 04 verification report (S3240-018).

Excavated soils displaying visual and strong olfactory evidence of contamination, were transported directly to the Sanctus Waste Treatment Areas for bioremediation treatment.

A summary of the formed overburden stockpiles and their area of origin is detailed within Table 6-1, with the screening and associated chemical analysis included within Appendix H. A detailed summary for the areas of re-use are detailed within Table 6-2, overleaf.

Table 6-1: Sanctus Stockpile Summary.

Sanctus Stockpile ID	Stockpile Volume (m³)	Sanctus Sample ID	Area of Origin	Result
SP075*	1,976	SP075-01*	Area 22 Overburden	Pass
		SP075-02*	Area 22 Overburden	Pass
		SP075-03*	Area 22 Overburden	Pass
		SP075-04*	Area 22 Overburden	Pass
		SP075-05*	Area 22 Overburden	Pass
		SP075-06	Area 22 Overburden	Pass
		SP075-07	Area 22 Overburden	Pass
		SP075-08	Area 22 Overburden	Pass
SP076	487	SP076-01	Area 21 Overburden	Retested
		SP076-02	Area 21 Overburden	Retested
		SP076-01 Retest 1	Area 21 Overburden	Pass
		SP076-01 Retest 2	Area 21 Overburden	Pass
		SP076-01 Retest 3	Area 21 Overburden	Pass
		SP076-02 Retest 1	Area 21 Overburden	Pass
		SP076-02 Retest 2	Area 21 Overburden	Pass
		SP076-02 Retest 3	Area 21 Overburden	Pass
SP077 (01-04)	981	SP077-01	Area 21 Overburden	Pass
		SP077-02	Area 21 Overburden	Pass
		SP077-03	Area 21 Overburden	Pass
		SP077-04	Area 21 Overburden	Pass
SP077 (05-08)	864	SP077-05	Area 21 Overburden	Fail
		SP077-06	Area 21 Overburden	Fail
		SP077-07	Area 21 Overburden	Pass
		SP077-08	Area 21 Overburden	Fail
SP078	1,476	SP078-01	Area 22 Overburden	Pass

Sanctus Stockpile ID	Stockpile Volume (m³)	Sanctus Sample ID	Area of Origin	Result
		SP078-02	Area 22 Overburden	Pass
		SP078-03	Area 22 Overburden	Pass
		SP078-04	Area 22 Overburden	Pass
		SP078-05	Area 22 Overburden	Pass
		SP078-06	Area 22 Overburden	Pass
*For the first 5no samples of SP075 (SP075-01 – SP075-05), these material was used within the infilling works of Phase 02 only and the suitability of which is detailed within S3240-015, Rev D.				

Table 6-2: Sanctus Stockpiles Re-use Summary

Sanctus Excavation ID	Maximum Excavation Depth (m bgl)	Stockpiles Used to Re-instate
Area 21	4.25	SP075 (05-08), SP076, TSP12
Area 22	3.70	SP077(01-04), SP078, TSP12

7.0 Outstanding and Ongoing Works

As previously discussed within Section 1.0, this report pertains to the remedial works undertaken within the Phase 03 area only, of the wider Ardrossan North Shore Site.

At the time of production, the following works are still to be completed by Sanctus:

- Completion of the bioremediation of hydrocarbon impacted soils, compared to the Remedial Target Criteria, detailed within Appendix D, to be retained on site under the management of the client and EnviroCentre. The re-use of these materials is to be agreed with regulators under a separate remediation strategy. The details of the ongoing treatment for all treatment stockpiles not previously mentioned will be detailed within the Phase 04 verification report (S3240-018).

8.0 Summary and Conclusion

Based on the above lines of evidence and those included within the following appendices, the remedial objectives for the Phase 03 site (Areas 21 & 22) have been met, with the confirmed removal of materials posing unsuitable risk to the ground water and the water environment.

This has been achieved through the removal of the source previously present within the impacted soils, achieved through the excavation of impacted soils containing elevated hydrocarbon contamination. No impacted groundwater containing sheens and/or free product were identified within Phase 03.

Materials re-used to infill excavations to site levels were confirmed as suitable for re-use, through the bioremediation and reduction of hydrocarbon contaminants to the agreed remedial criteria and verified in accordance with the remediation strategy or the segregation, stockpiling and verification of overburden soils.

Although the source of the contamination has been removed, as required from the Sanctus Remediation Strategy (1), due to the site's history, the potential remains for previously unidentified contamination to be identified during the next phases of the site's development. As such, the remediation strategy and site investigation data should be made available for all contractors involved with the development scheme and the discovery strategy within Section 21.0 of the Remediation Strategy (1) followed.

9.0 References

1. **Sanctus Limited.** *Ardrossan North Shore Remediation Strategy.* August 2024.
2. **Sanctus Limited .** *Ardrossan North Shore Phase 01 Verification Report, Revision C .* June 2024.
3. **Sanctus Limited.** *Ardrossan North Shore Phase 02 Verification Report.* s.l. : Sanctus Limited, September 2024.

Appendix A Sanctus' Drawings



- Legend:
- Site Boundary
 - Phase 3 - Remediation Area
 - - - Phasing Sequence Line

Phase 3
North Residential



Note: Drawing to be read in conjunction with D3240/005 and D3240/006.

Site Overview:



Scale: 1:12,500



Drawing Notes:
Based on client supplied DWG -
ARDROSSAN 2D produced by Ard 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	20/09/2023
B	Area IDs Updated	17/11/2023
C	Boundary Added	12/09/2024

APPROVED

Project Name:
North Shore, Ardrossan
Client:
North Ayrshire Council

Drawing Title:
Phase 3 - Proposed Phasing Plan Areas

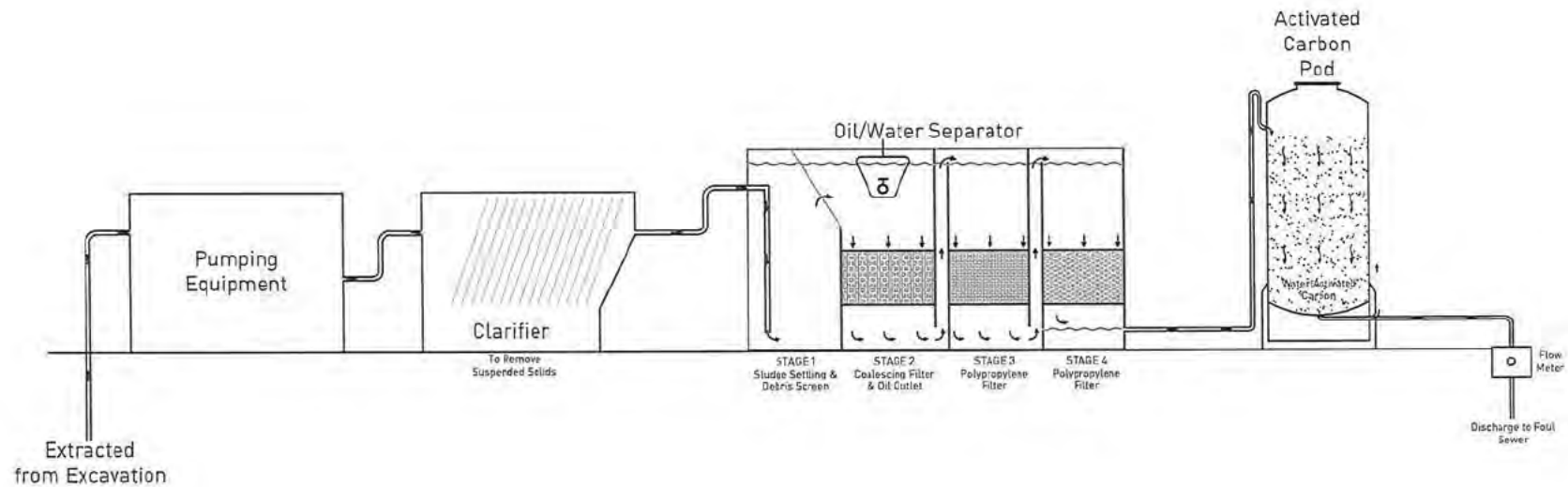
Contract No:
S3240

Drawing No:
D3240/007

Scale @ A3:
1:1250

Drawn By:
QC Check

Sanctus Groundwater Treatment System - Schematic Only



sanctus

Legend:

Drawing Notes:

Site Address:
Faylight Place
Ardrossan
North Ayrshire
KA22 8AF

Rev.	Description	Date
A	First Issue	06/09/2023

Project Name:
North Shore, Ardrossan

Client:
North Ayrshire Council

Drawing Title:
Water Treatment System with Carbon Pod Schematic

Contract No:
S3240

Drawing No:
D3240/009

Scale @ A4:
NTS

Drawn By:

QC Check By:

Approved By:



Legend
— Proposed Remediation
— As-Built Excavation
— Boundary Line (Not to Scale)

Phase 1-3 Completed Remediation Excavation As Built Surveys



Sanclius Inc.
2000 North 1st Street, Suite 100
Tampa, FL 33602
Phone: (813) 241-1111
Fax: (813) 241-1112
Email: info@sanclius.com
Website: www.sanclius.com

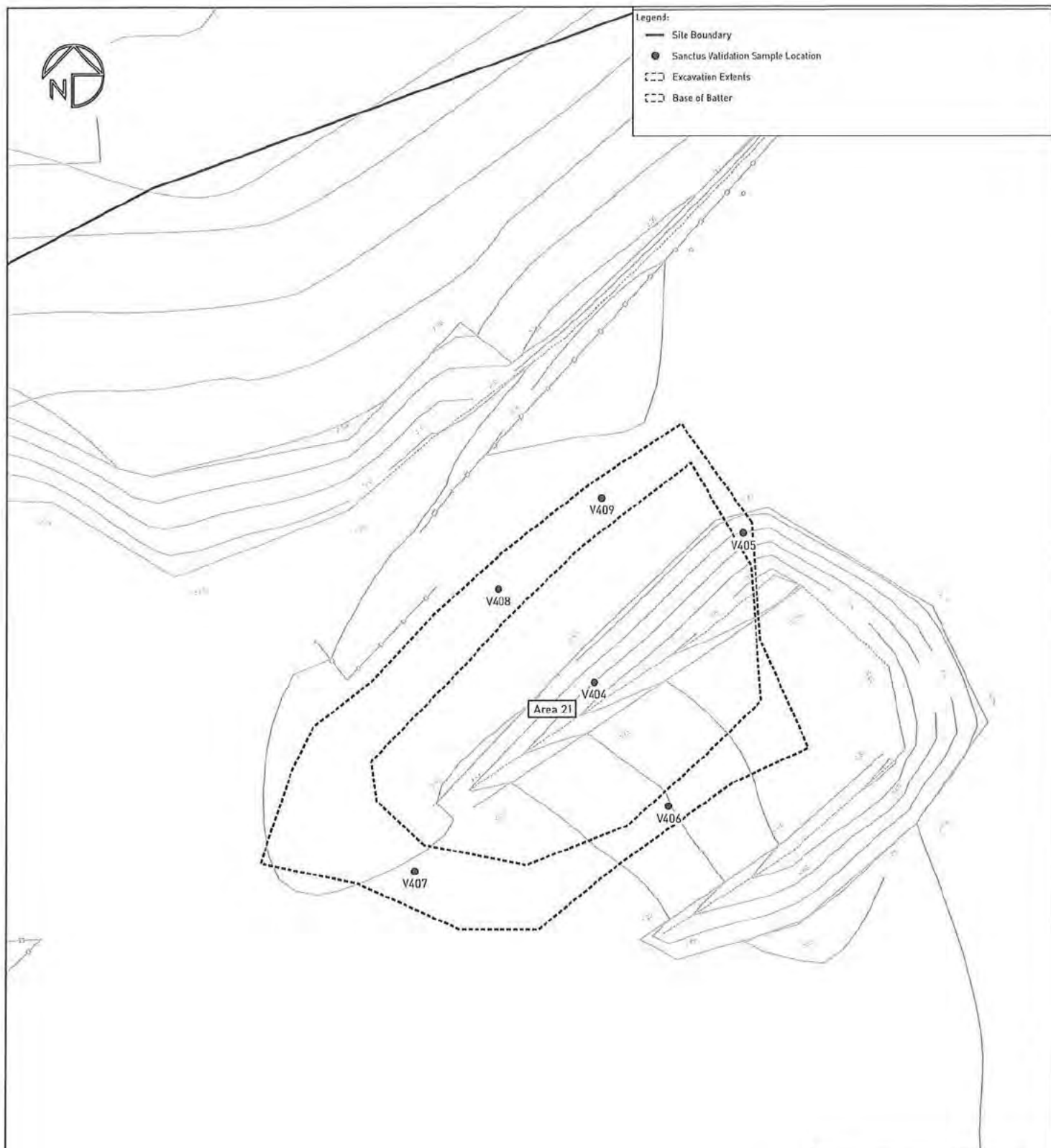
Rev. Description
A Final Report
APPROVED

Date
2/1/2024

Project Name
North Shore Apartment
Client
North Shore Apartment
Drawing Title
Phase 1-3 Remediation Excavation As-Built Survey
Drawing No.
SCL-PA3
Scale (NAT)
1" = 100'
Drawn By
SCL-PA3
Checked By
SCL-PA3



- Legend:
- Site Boundary
 - Sanctus Validation Sample Location
 - - - Excavation Extents
 - - - Base of Batter



0m 2m 4m 8m

sanctus

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

Site Address:
Raylight Place
Ardrossan
North Ayrshire
Scotland

Rev.	Description	Date
A	First Issue	26/09/2024
B	Location Added	04/02/2025

APPROVED

Date
26/09/2024
04/02/2025

Project Name:
North Shore, Ardrossan
Client:
North Ayrshire Council

Drawing Title:
Area 21 - Sanctus Validation Sample Location Plan

Contract No:
53240

Drawing No:
03240/098

Scale @ A3:
1:200 / See Inset

Drawn By:

QC Check By:

Approved By:



- Legend:
- Site Boundary
 - Sanctus Groundwater Validation Sample Location
 - - - Excavation Extents
 - - - Base of Batter

Area 21
01



0m 2.5m 5m 10m



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

Site Address:
Raylight Place
Ardrossan
North Ayrshire
Scotland

Rev.	Description	Date
A	First Issue	26/09/2024

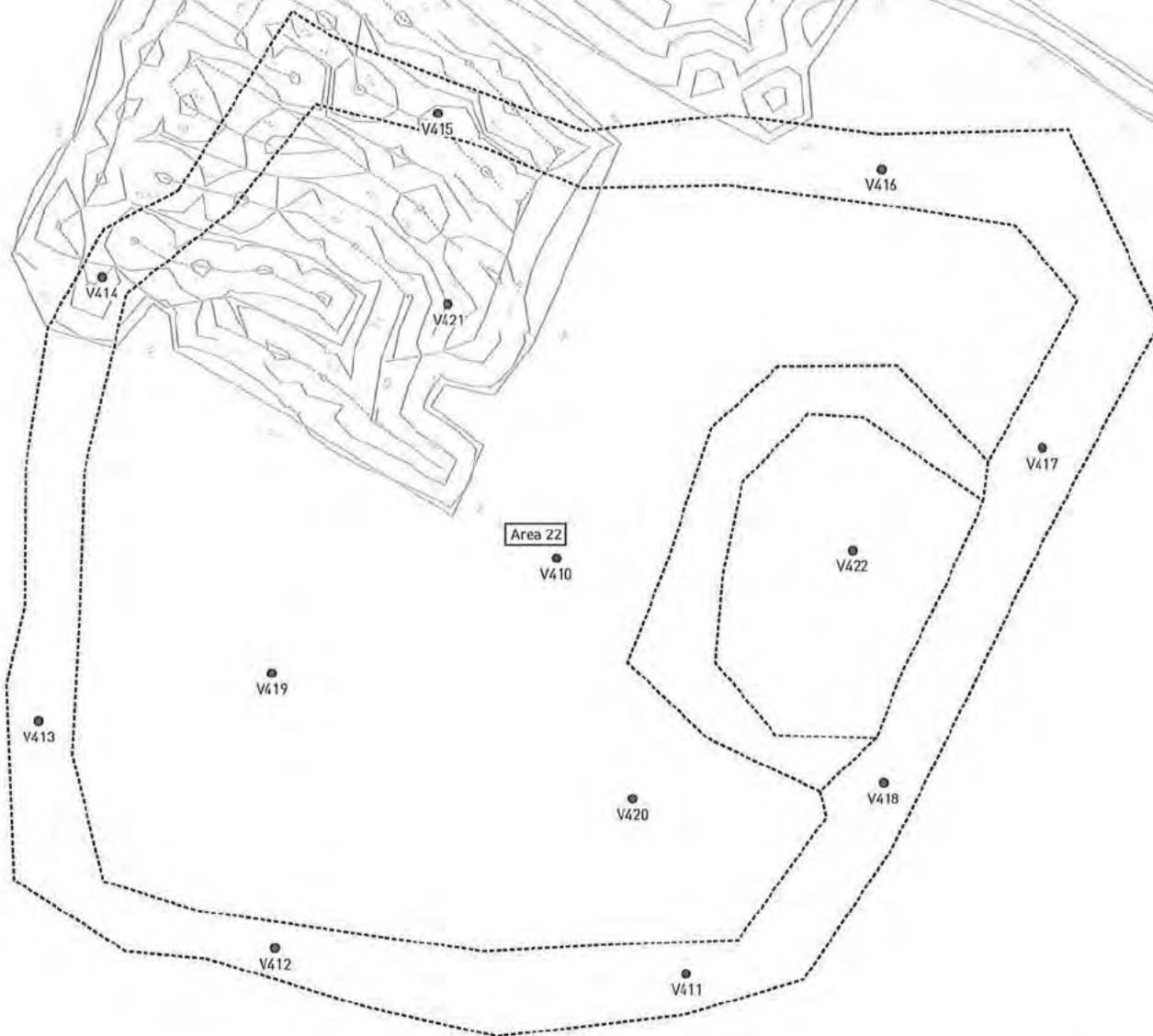
APPROVED

Project Name: North Shere, Ardrossan		
Client: North Ayrshire Council		
Drawing Title: Area 21 - Sanctus Groundwater Validation Sample Location Plan		
Contract No: S3240	Drawing No: D3240/099	Scale @ A3: 1:200 / See Inset
Drawn By:	QC Check By:	Approved By:



Legend:

- Site Boundary
- Sanctus Validation Sample Location
- - - Excavation Extents
- - - Base of Batter



0m 2.5m 5m 10m

Site Map:



Scale: 1:12,500

sanctus

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

Site Address:
Raylight Place
Ardrossan
North Ayrshire
Scotland

Rev.	Description	Date
A	First Issue	26/09/2024
B	Location Added	04/02/2025

APPROVED

Project Name:
North Shore, Ardrossan
Client:
North Ayrshire Council

Drawing Title:
Area 22 - Sanctus Validation Sample Location Plan

Contract No:
53240

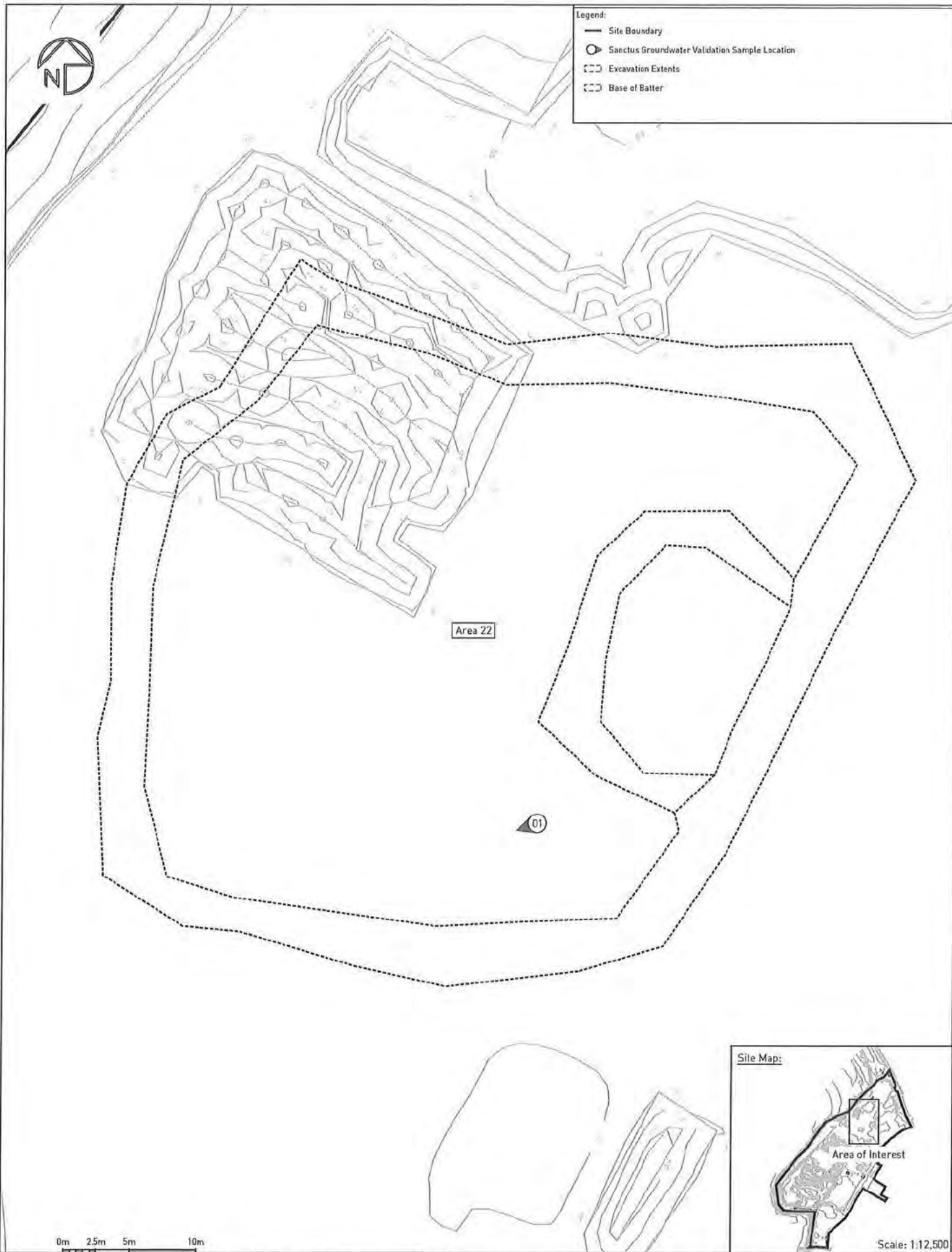
Drawing No:
D3240/100

Scale @ A3:
1:250 / See Inset

Drawn By:

QC Check By:

Approved By:



sanctus

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

Site Address:
Raylight Place
Ardrossan
North Ayrshire
Scotland

Rev.	Description	Date
A	First Issue	26/09/2024

APPROVED

Project Name:
North Shore, Ardrossan

Client:
North Ayrshire Council

Drawing Title:
Area 22 - Sanctus Groundwater Validation Sample Location Plan

Contract No:
S3240

Drawing No:
D3240/101

Scale @ A3:
1:250 / See Inset

Drawn By:

QC Check By:

Approved By:

Appendix B Sanctus Site Work Photographs

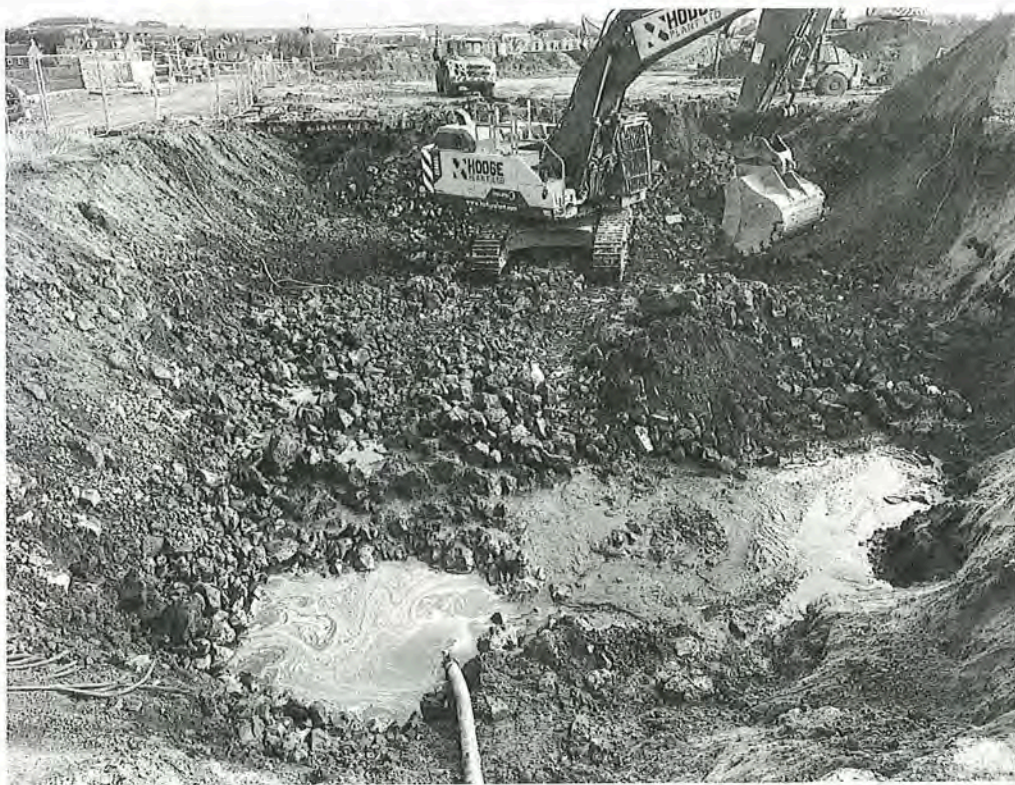


Plate No.: 1

Title.: Area 21 Excavation Looking North .

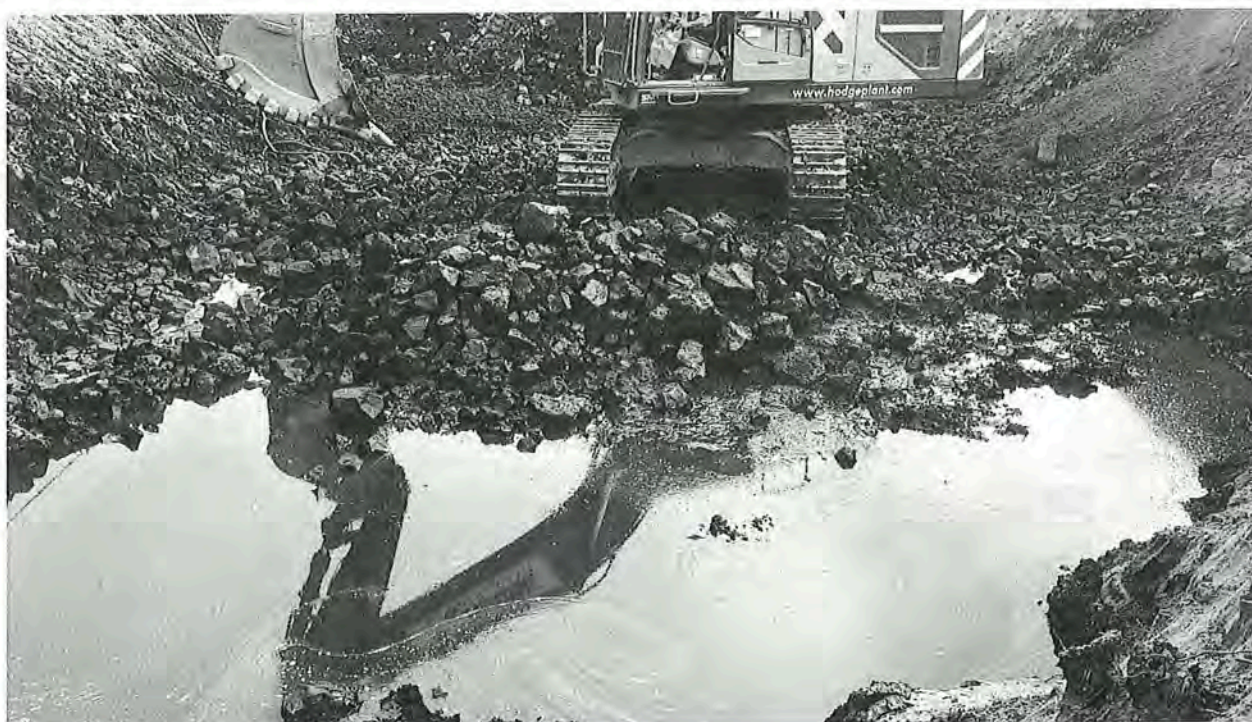


Plate No.: 2

Title.: Area 21 Groundwater showing no Sheen or Free Phase Product.

sanctus

Contract No.: S3240

Date: 17/09/2024

Contract Name: Ardrossan, North Shore



Plate No.: 3

Title.: Dewatering of Area 21.

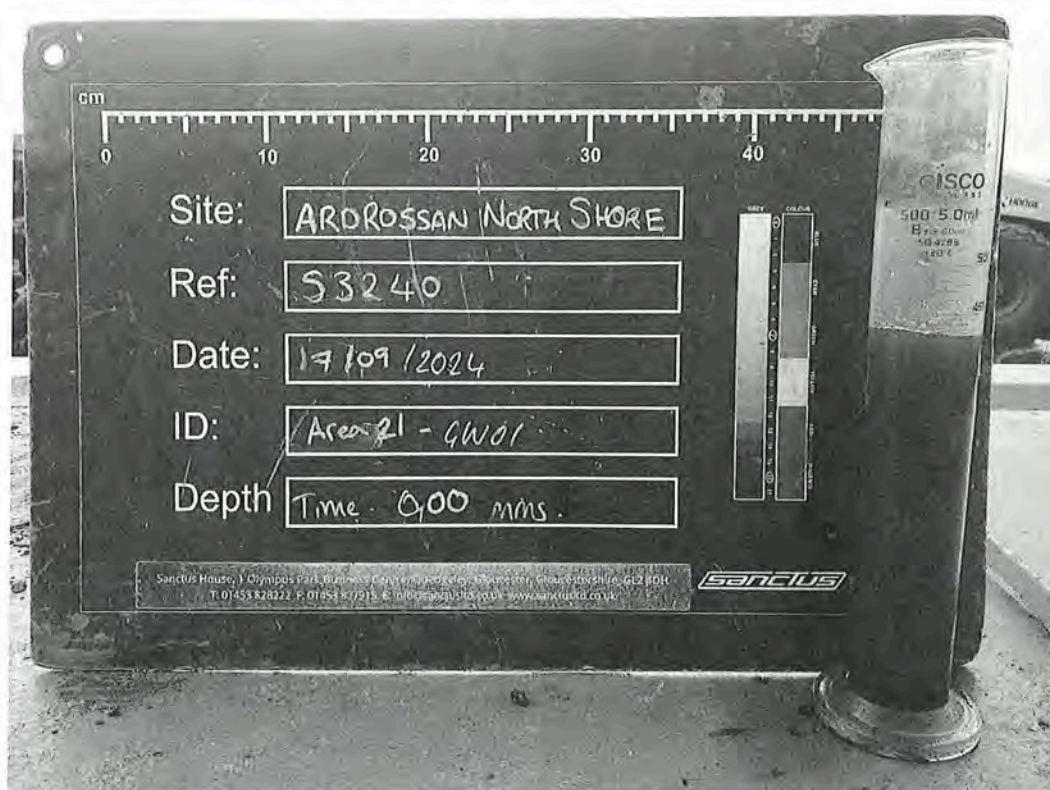


Plate No.: 4

Title.: Area 21 Groundwater 01 at 0 minutes .

sanclius

Contract No.: S3240

Date: 17/09/2024

Contract Name: Ardrossan, North Shore

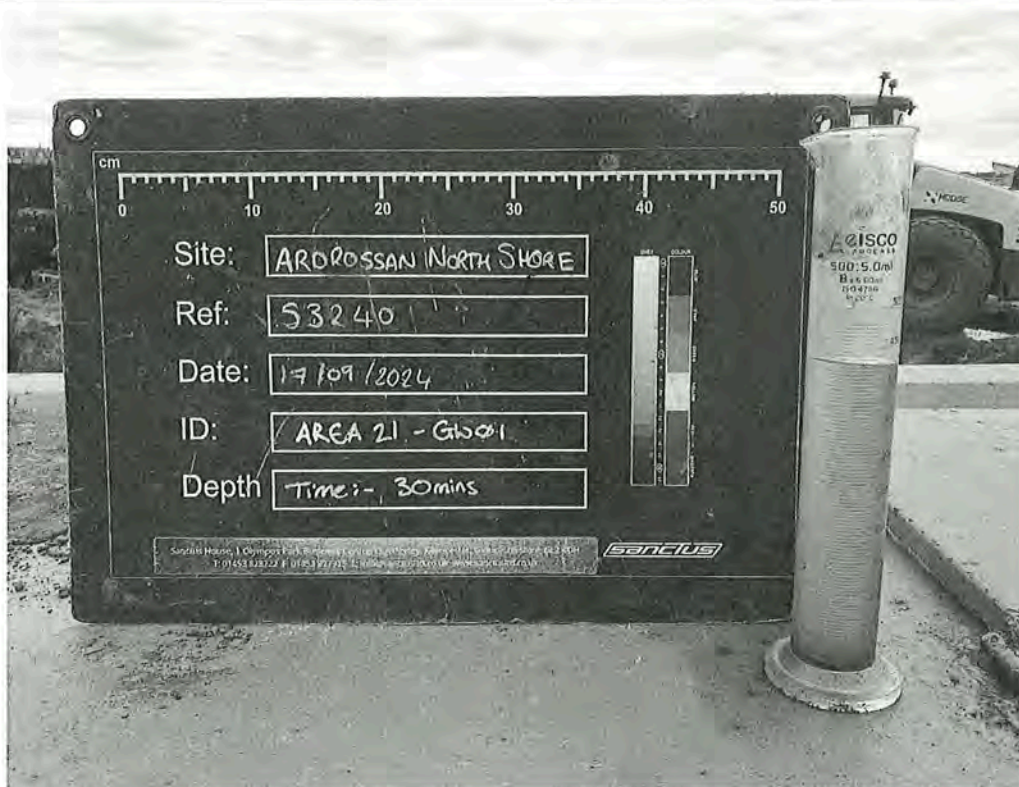


Plate No.: 5

Title.: Area 21 Groundwater 01 showing 0.00mm of sheen after 30 minutes.



Plate No.: 6

Title.: Area 21 Validation V404 (Base of Excavation)

sanclius

Contract No.: S3240

Date: 17/09/2024

Contract Name: Ardrossan, North Shore



Plate No.: 7

Title.: Area 21 Validation V405 (Northern Face).



Plate No.: 8

Title.: Area 21 Validation V406 (Eastern Face)

sanctus

Contract No.: S3240

Date: 17/09/2024

Contract Name: Ardrossan, North Shore



Plate No.: 9

Title.: Area 21 Validation V407 (Southern Face).



Plate No.: 10

Title.: Area 21 Validation V408 (Western Face)



Contract No.: S3240

Date: 17/09/2024

Contract Name: Ardrossan, North Shore



Plate No.: 11	Title.: Area 21 Validation V409 (Western Face)	
	Contract No.: S3240	Date: 17/09/2024
	Contract Name: Ardrossan, North Shore	



Plate No.: 1

Title.: Area 22 Excavation View East.



Plate No.: 2

Title.: Area 22 Groundwater showing no free product or sheen.



Contract No.: S3240

Date: 25/09/2024

Contract Name: Ardrossan, North Shore

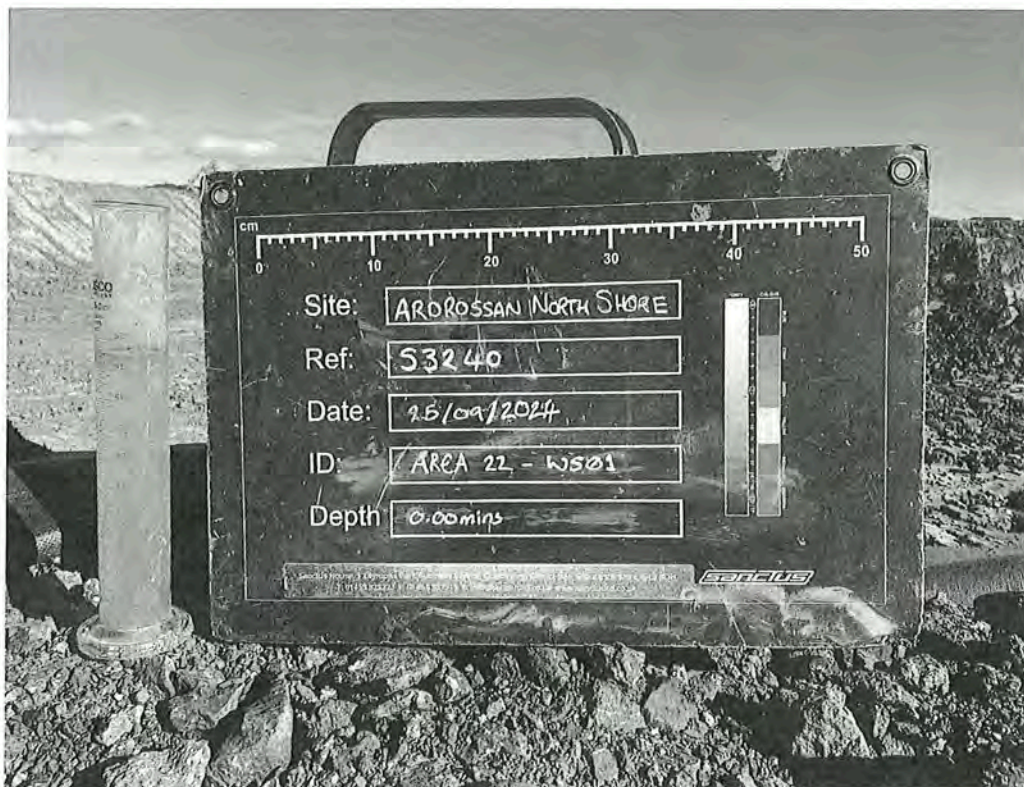


Plate No.: 3

Title.: Dewatering of Area 22 Groundwater at 0 minutes.



Plate No.: 4

Title.: Area 22 Groundwater 01 at 30 minutes .

sanclius

Contract No.: S3240

Date: 25/09/2024

Contract Name: Ardrossan, North Shore



Plate No.: 5

Title.: Area 22 Validation V411 (Southern Extent) .



Plate No.: 6

Title.: Area 22 Validation V412 (Southern Extent)



Contract No.: S3240

Date: 25/09/2024

Contract Name: Ardrossan, North Shore



Plate No.: 7

Title.: Area 22 Validation V413 (Western Face).



Plate No.: 8

Title.: Area 22 Validation V414 (Western Face)

sanctus

Contract No.: S3240

Date: 25/09/2024

Contract Name: Ardrossan, North Shore



Plate No.: 9

Title.: Area 22 Validation V415 (Northern Face).



Plate No.: 10

Title.: Area 22 Validation V416 (Northern Face)

sanctus

Contract No.: S3240

Date: 25/09/2024

Contract Name: Ardrossan, North Shore



Plate No.: 11

Title.: Area 22 Validation V417 (Eastern Face).



Plate No.: 12

Title.: Area 22 Validation V418 (Eastern Face)

sanctus

Contract No.: S3240

Date: 25/09/2024

Contract Name: Ardrossan, North Shore

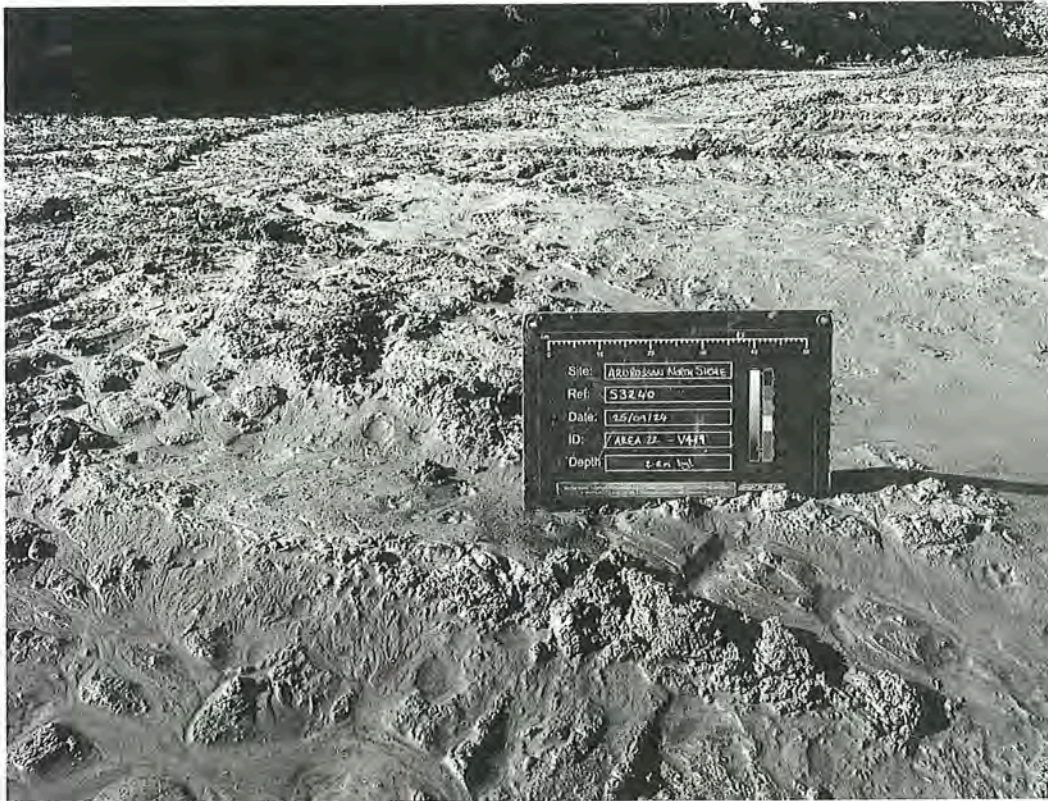


Plate No.: 13

Title.: Area 22 Validation V419 (Excavation Base).



Plate No.: 14

Title.: Area 22 Validation V420 (Excavation Base)



Contract No.: S3240

Date: 25/09/2024

Contract Name: Ardrossan, North Shore

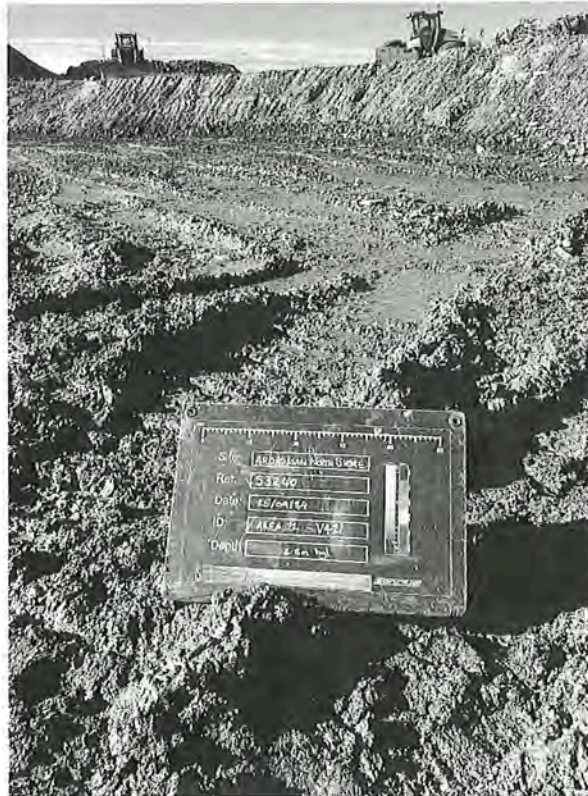


Plate No.: 15

Title.: Area 22 Validation V421 (Excavation Base).



Plate No.: 16

Title.: Area 22 Validation V422 (Excavation Base)

sanctus

Contract No.: S3240

Date: 25/09/2024

Contract Name: Ardrossan, North Shore

Appendix C Sanctus Ground Water Validation



Plate No.: 3

Title.: Dewatering of Area 21.

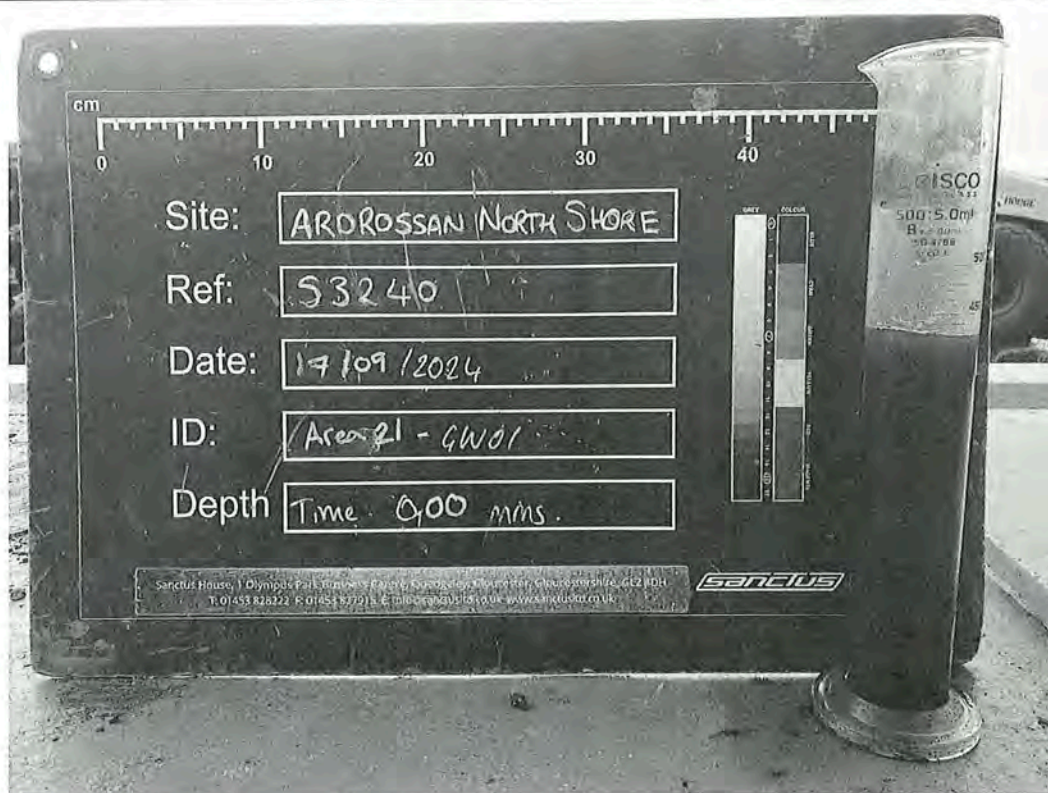


Plate No.: 4

Title.: Area 21 Groundwater 01 at 0 minutes .

Sanctus

Contract No.: S3240

Date: 17/09/2024

Contract Name: Ardrossan, North Shore

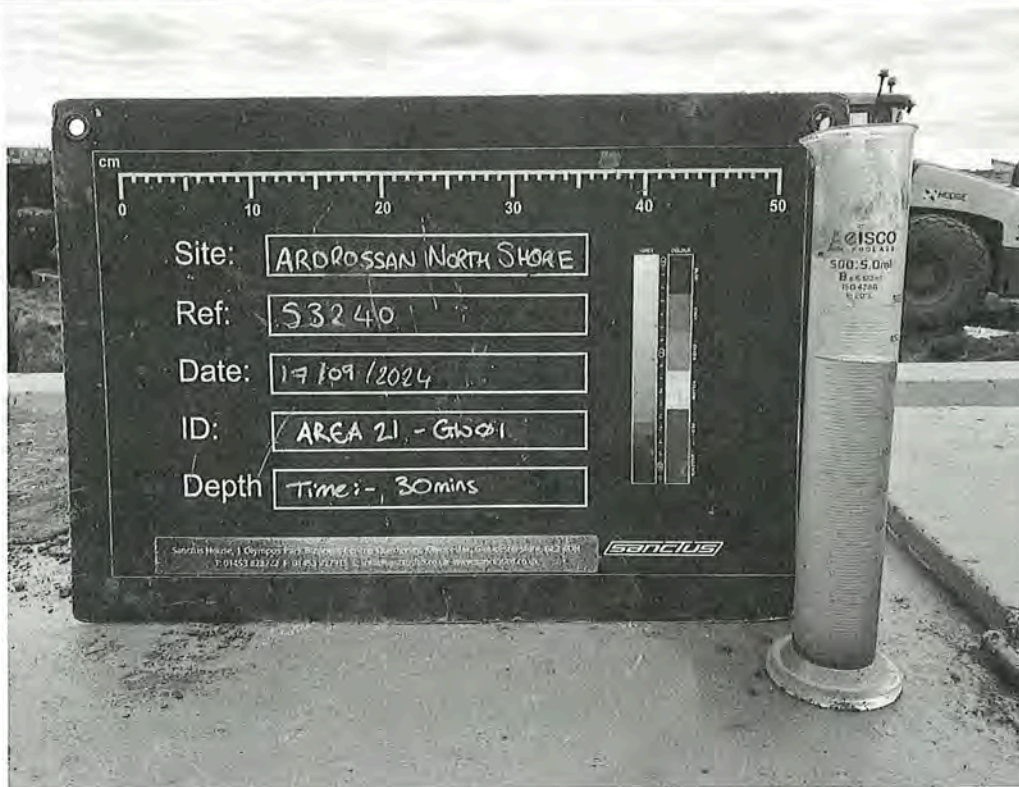


Plate No.: 5

Title.: Area 21 Groundwater 01 showing 0.00mm of sheen after 30 minutes.



Plate No.: 6

Title.: Area 21 Validation V404 (Base of Excavation)

sancluis

Contract No.: S3240

Date: 17/09/2024

Contract Name: Ardrossan, North Shore

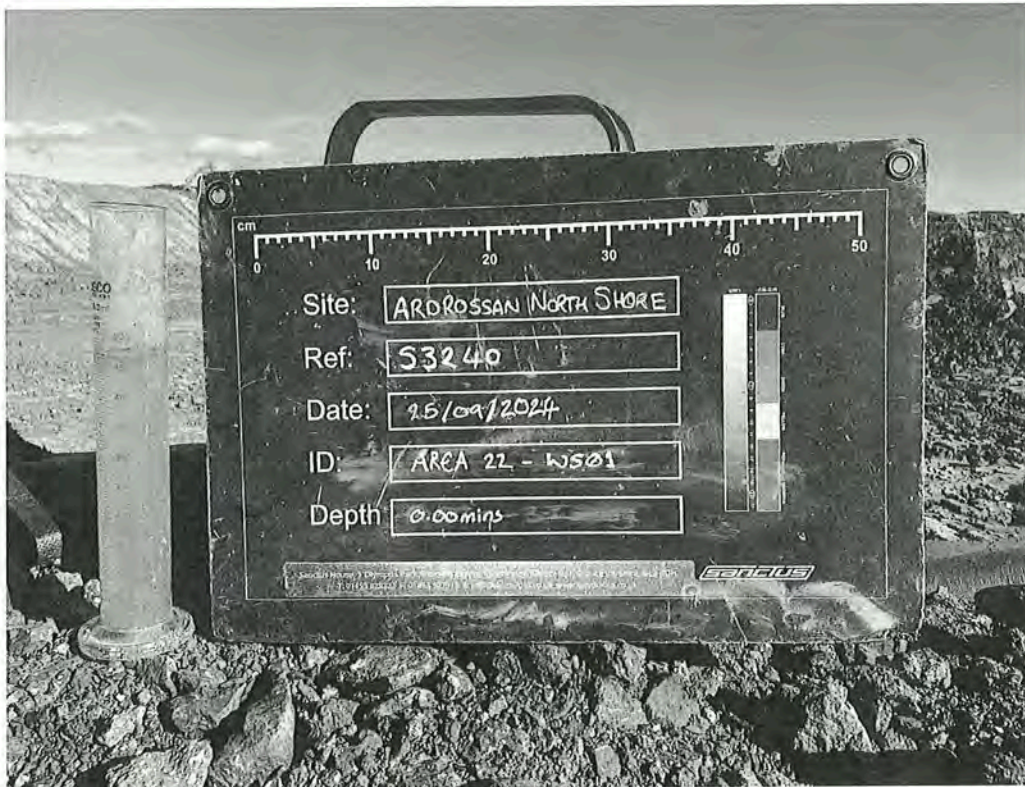


Plate No.: 3

Title.: Dewatering of Area 22 Groundwater at 0 minutes.

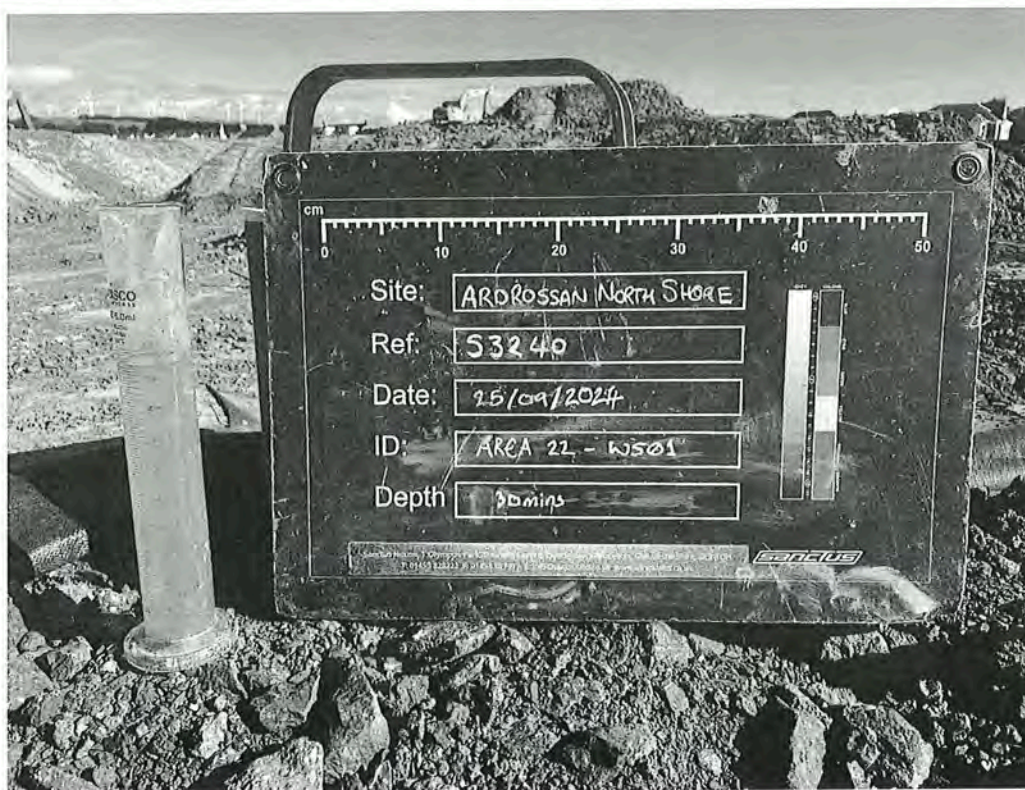


Plate No.: 4

Title.: Area 22 Groundwater 01 at 30 minutes .

SANCLIUS

Contract No.: S3240

Date: 25/09/2024

Contract Name: Ardrossan, North Shore

Appendix D Site Specific Remedial Criteria

Table 0-1: Sanctus Remedial Criteria

Determinant	Units	Remedial Target Criteria: Remediation (all verification samples)
Petroleum Hydrocarbons		
Ali C5-6	mg/kg	78
Ali C6-8	mg/kg	230
Ali C8-10	mg/kg	65
AliC10-12	mg/kg	330
Ali C12-16	mg/kg	1000
Ali C16-21	mg/kg	1000
Ali C21-35	mg/kg	1000
Aro C5-7	mg/kg	140
Aro C7-8	mg/kg	290
AroC8-10*	mg/kg	7.34
Aro C10-12*	mg/kg	48.3
Aro C12-16*	mg/kg	173.47
Aro C16-21*	mg/kg	540
Aro C21-35	mg/kg	<1,000
Aro C5-35*	mg/kg	<1,000
Total Petroleum Hydrocarbons*	mg/kg	Total of all TPH Fractions <1000mg/kg
Speciated PAHs		
Naphthalene*	mg/kg	3.7
Acenaphthylene*	mg/kg	109.9
Acenaphthene	mg/kg	141
Fluorene	mg/kg	400
Phenanthrene	mg/kg	220
Anthracene	mg/kg	<1,000
Fluoranthene	mg/kg	560
Pyrene	mg/kg	<1,000
Benzo(a)anthracene	mg/kg	11
Chrysene	mg/kg	22
Benzo(b)fluoranthene*	mg/kg	20.4
Benzo(k)fluoranthene	mg/kg	93
Benzo(a)pyrene*	mg/kg	25.1
Indeno (1,2,3-c-d)pyrene	mg/kg	36
Dibenz(a,h)anthracene*	mg/kg	48.6
Benzo(g,h,i)perylene	mg/kg	340
Total PAHs	Mg/kg	Total of all PAH Fractions <1000mg/kg
Monoaromatics & Oxygenates		
Benzene	mg/kg	0.170
Toluene	mg/kg	290

Determinant	Units	Remedial Target Criteria: Remediation (all verification samples)
Ethylbenzene	mg/kg	110
o-xylene	mg/kg	140
Asbestos		
Asbestos (Non-Visible)	N/A	<0.01%
Note: *Denotes values calculated from Sanctus Site Specific Modelling and assumptions detailed within Section 8.0 of the Sanctus Remediation Strategy (1)		

Appendix E Excavation Validations, Screening and Chemical Analysis





Final Report

Report No.: 24-30290-1

Initial Date of Issue: 25-Sep-2024

Re-Issue Details:

Client Sanctus Limited

Client Address:

Contact(s): Labs

Project S3240 Ardrossan North Shore

Quotation No.: Q24-35340

Date Received: 19-Sep-2024

Order No.: S3240

Date Instructed: 19-Sep-2024

No. of Samples: 6

Turnaround (Wkdays): 5

Results Due: 25-Sep-2024

Date Approved: 25-Sep-2024

Approved By:

Details: Technical Director

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

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-30290	24-30290	24-30290	24-30290	24-30290	24-30290	24-30290
Quotation No.: Q24-35340		Chemtest Sample ID.:	1869060	1869061	1869062	1869063	1869064	1869065	1869065
Order No.: S3240		Client Sample Ref.:	Validation	Validation	Validation	Validation	Validation	Validation	Validation
		Client Sample ID.:	V404	V405	V406	V407	V408	V409	V409
		Sample Location:	Area 21	Area 21	Area 21	Area 21	Area 21	Cell D	Cell D
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	3.50	1.90	1.90	1.90	1.90	1.90	1.90
		Bottom Depth (m):	3.50	3.50	3.50	3.50	3.50	3.50	3.50
		Date Sampled:	17-Sep-2024	17-Sep-2024	17-Sep-2024	17-Sep-2024	17-Sep-2024	17-Sep-2024	17-Sep-2024
		Asbestos Lab:	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
ACM Type		U	2192		N/A	-	-	-	Fibres/Clumps
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry		U	2192	%	0.001				<0.001
Total Asbestos		U	2192	%	0.001				<0.001
Moisture		N	2030	%	0.020	21	9.9	9.9	8.2
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0	8.1	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	< 1.0	< 1.0	81	< 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	2.7	2.6	180	< 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	< 3.0	< 3.0	320	< 3.0
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	79	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	< 5.0	< 5.0	590	< 5.0
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	670	< 10
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	6.1	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	34	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	8.3	5.5	70	5.7
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	< 2.0	< 2.0	33	< 2.0
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	1.7	1.2	170	< 1.0
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	8.3	5.8	140	5.7
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	10	< 10	310	< 10
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	12	< 10	730	< 10
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	14	< 10	980	< 10

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-30290	24-30290	24-30290	24-30290	24-30290	24-30290
Quotation No.: Q24-35340		Chemtest Sample ID.:	1869060	1869061	1869062	1869063	1869064	1869065
Order No.: S3240		Client Sample Ref.:	Validation	Validation	Validation	Validation	Validation	Validation
		Client Sample ID.:	V404	V405	V406	V407	V408	V409
		Sample Location:	Area 21	Area 21	Area 21	Area 21	Area 21	Cell D
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	3.50	1.90	1.90	1.90	1.90	1.90
		Bottom Depth (m):	3.50	3.50	3.50	3.50	3.50	3.50
		Date Sampled:	17-Sep-2024	17-Sep-2024	17-Sep-2024	17-Sep-2024	17-Sep-2024	17-Sep-2024
		Asbestos Lab:	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD			
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	0.21	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	0.11
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.25
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.16
Phenanthrene		M	2800	mg/kg	0.10	0.28	< 0.10	0.49
Anthracene		M	2800	mg/kg	0.10	0.11	< 0.10	0.16
Fluoranthene		M	2800	mg/kg	0.10	0.42	0.30	6.3
Pyrene		M	2800	mg/kg	0.10	0.39	0.29	4.6
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	2.0
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10	1.9
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	2.5
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.80
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	1.9
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	1.2
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	0.13
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10	1.2
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0	< 2.0	39

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	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
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

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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.

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

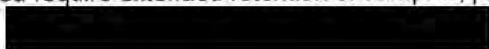
Clean Up Codes

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:



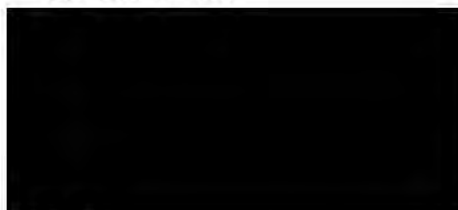


Final Report

Report No.: 24-30701-1
Initial Date of Issue: 26-Sep-2024

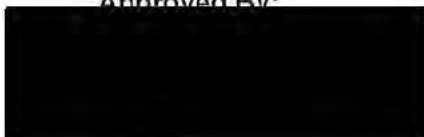
Re-Issue Details:

Client: Sanctus Limited
Client Address:



Contact(s):	Labs		
Project	S3240 Ardrossan North Shore		
Quotation No.:	Q24-35340	Date Received:	23-Sep-2024
Order No.:		Date Instructed:	23-Sep-2024
No. of Samples:	1		
Turnaround (Wkdays):	5	Results Due:	27-Sep-2024
Date Approved:	26-Sep-2024		

Approved By:



Details: Technical Director



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

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				24-30701
Quotation No.: Q24-35340		Chemtest Sample ID.:				1870780
Order No.:		Client Sample Ref.:				Validation
		Client Sample ID.:				V410
		Sample Location:				V410
		Sample Type:				SOIL
		Top Depth (m):				0.1
		Bottom Depth (m):				0.2
		Date Sampled:				19-Sep-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
Moisture		N	2030	%	0.020	< 0.020
Soil Colour		N	2040		N/A	Black
Other Material		N	2040		N/A	None
Soil Texture		N	2040		N/A	Tarmac
Naphthalene		U	2800	mg/kg	0.10	24
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10
Acenaphthene		U	2800	mg/kg	0.10	22
Fluorene		U	2800	mg/kg	0.10	14
Phenanthrene		U	2800	mg/kg	0.10	31
Anthracene		U	2800	mg/kg	0.10	12
Fluoranthene		U	2800	mg/kg	0.10	26
Pyrene		U	2800	mg/kg	0.10	20
Benzo[a]anthracene		U	2800	mg/kg	0.10	6.6
Chrysene		U	2800	mg/kg	0.10	5.9
Benzo[b]fluoranthene		U	2800	mg/kg	0.10	5.0
Benzo[k]fluoranthene		U	2800	mg/kg	0.10	2.2
Benzo[a]pyrene		U	2800	mg/kg	0.10	4.6
Indeno(1,2,3-c,d)Pyrene		U	2800	mg/kg	0.10	1.5
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10
Benzo[g,h,i]perylene		U	2800	mg/kg	0.10	1.5
Total Of 16 PAH's		N	2800	mg/kg	2.0	180

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	
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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>	"greater than"
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LOD	Limit of detection

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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

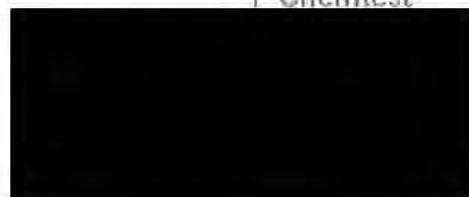
NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

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
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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.: 24-31861-1

Initial Date of Issue: 07-Oct-2024

Re-Issue Details:

Client Sanctus Limited

Client Address:



Contact(s): Labs

Project S3240 Ardrossan North Shore

Quotation No.: Q24-35340

Date Received: 02-Oct-2024

Order No.: S3240

Date Instructed: 02-Oct-2024

No. of Samples: 12

Turnaround (Wkdays): 4

Results Due: 07-Oct-2024

Date Approved: 07-Oct-2024

Approved By:



Details:  Technical Director

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

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-31861	24-31861	24-31861	24-31861	24-31861	24-31861	24-31861	24-31861	24-31861	24-31861
Quotation No.: Q24-35340		Chemtest Sample ID.:	1875131	1875132	1875133	1875134	1875135	1875136	1875137	1875138		
Order No.: S3240		Client Sample Ref.:	Validation	Validation	Validation	Validation	Validation	Validation	Validation	Validation		
		Client Sample ID.:	V411	V412	V413	V414	V415	V416	V417	V418		
		Sample Location:	V411	V412	V413	V414	V415	V416	V417	V418		
		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):	2.80	2.80	2.80	2.80	2.80	2.80	2.80	3.20	2.80	
		Date Sampled:	25-Sep-2024	25-Sep-2024	25-Sep-2024	25-Sep-2024	25-Sep-2024	25-Sep-2024	25-Sep-2024	25-Sep-2024		
		Asbestos Lab:	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM		
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
ACM Type		U	2192		N/A	-	-	-	-	-	-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020	3.5	4.2	3.5	3.1	3.5	4.2	3.7
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Roots 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	< 2.0	< 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	30	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	30	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	30	< 10	< 10	< 10	< 10	< 10	< 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	4.0	2.4	2.3	2.9	3.1	3.2	3.5
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10	< 10	< 10	< 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
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	34	< 10	< 10	< 10	< 10	< 10	< 10
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	34	< 10	< 10	< 10	< 10	< 10	< 10
Benzene		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.:	24-31861	24-31861	24-31861	24-31861	24-31861	24-31861	24-31861	24-31861	24-31861	24-31861
Quotation No.: Q24-35340		Chemtest Sample ID.:	1875131	1875132	1875133	1875134	1875135	1875136	1875137	1875138		
Order No.: S3240		Client Sample Ref.:	Validation	Validation	Validation	Validation	Validation	Validation	Validation	Validation		
		Client Sample ID.:	V411	V412	V413	V414	V415	V416	V417	V418		
		Sample Location:	V411	V412	V413	V414	V415	V416	V417	V418		
		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):	2.80	2.80	2.80	2.80	2.80	2.80	3.20	2.80		
		Date Sampled:	25-Sep-2024	25-Sep-2024	25-Sep-2024	25-Sep-2024	25-Sep-2024	25-Sep-2024	25-Sep-2024	25-Sep-2024		
		Asbestos Lab:	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM		
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
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
Methyl Tert-Butyl Ether		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
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	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.34	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.41	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				24-31861	24-31861	24-31861	24-31861
Quotation No.: Q24-35340		Chemtest Sample ID.:				1875139	1875140	1875141	1875142
Order No.: S3240		Client Sample Ref.:				Validation	Validation	Validation	Validation
		Client Sample ID.:				V419	V420	V421	V422
		Sample Location:				V419	V420	V421	V422
		Sample Type:				SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				2.80	2.80	2.80	3.20
		Bottom Depth (m):				2.80	2.80	2.80	3.20
		Date Sampled:				25-Sep-2024	25-Sep-2024	25-Sep-2024	25-Sep-2024
		Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
ACM Type		U	2192		N/A	-	-	-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020	13	12	7.8	12
Soil Colour		N	2040		N/A	Brown	Brown	Grey	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Gravel	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	45	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	< 1.0	< 1.0	54	< 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	10	37	< 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	< 3.0	< 3.0	4.4	< 3.0
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	< 5.0	10	140	< 5.0
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	10	140	< 10
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	5.7	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	8.8	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	3.8	5.0	12	4.6
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0	< 2.0
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	< 5.0	< 5.0	26	< 5.0
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	< 10	< 10	26	< 10
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	< 10	15	170	< 10
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	< 10	15	170	< 10
Benzene		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.:				24-31861	24-31861	24-31861	24-31861
Quotation No.: Q24-35340		Chemtest Sample ID.:				1875139	1875140	1875141	1875142
Order No.: S3240		Client Sample Ref.:				Validation	Validation	Validation	Validation
		Client Sample ID.:				V419	V420	V421	V422
		Sample Location:				V419	V420	V421	V422
		Sample Type:				SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				2.80	2.80	2.80	3.20
		Bottom Depth (m):				2.80	2.80	2.80	3.20
		Date Sampled:				25-Sep-2024	25-Sep-2024	25-Sep-2024	25-Sep-2024
		Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
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
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.20	< 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	< 0.10	0.13	0.32	< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	< 0.10	0.16	0.23	< 0.10
Pyrene		M	2800	mg/kg	0.10	< 0.10	0.18	0.26	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2030	Moisture and Stone Content of Soils (Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description (Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
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:



Appendix F Sanctus Remediation Technical Note and Declaration Forms.

**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:

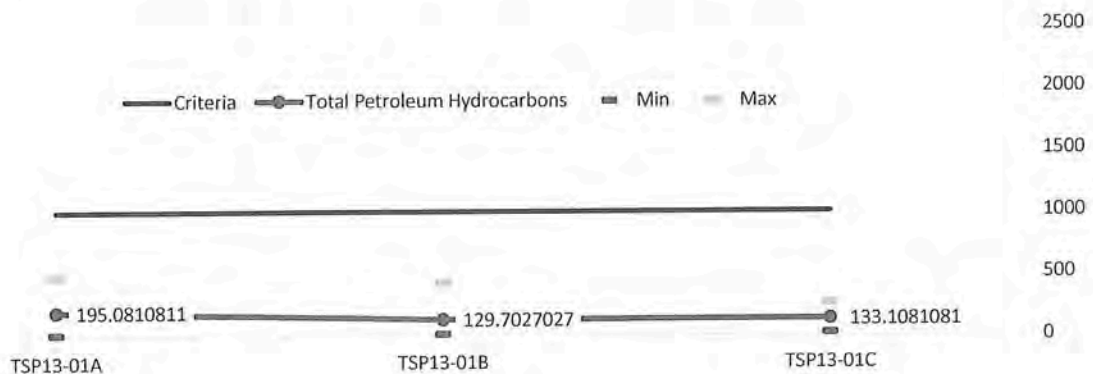
Test Results: PASS / FAIL

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

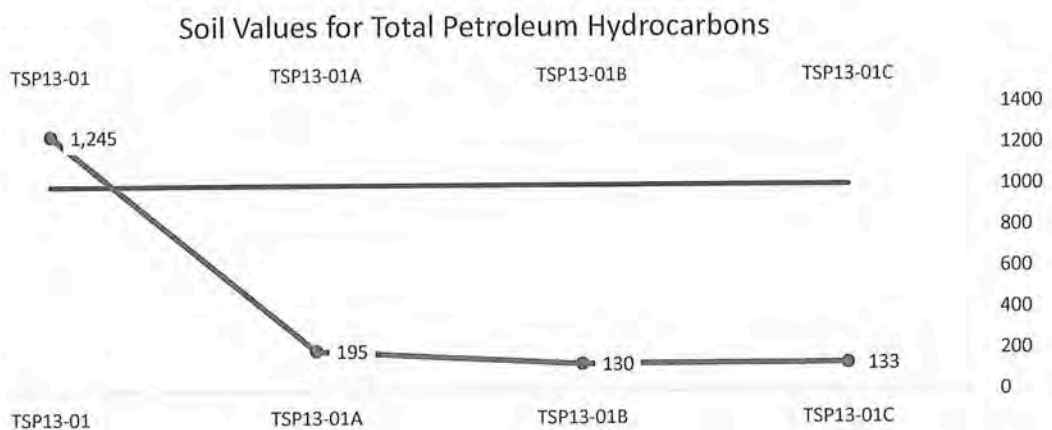
Data Trend for Total TPH levels:

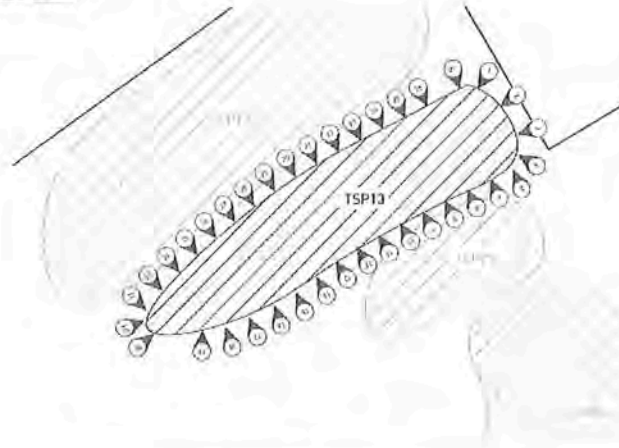
Min & Max Soil Values for Total Petroleum Hydrocarbons



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.

NAME [REDACTED]

POSITION: Senior Environmental Engineer

DATE: 07/10/2024

SIGNED:

[REDACTED]
[REDACTED]
Senior Environmental Engineer

Signed by: [REDACTED]

Record of reuse

For Sanctus Use Only:

Approved for reuse:

Beginning of Movement from stockpile:

End of Movement into site:



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.
 A

Description
 First Issue

Date
 07/10/2024

Project Name:
 North Shore, Ardrossan

Client:
 North Ayrshire Council

Drawing Title:
 Treated Stockpile 13 Sample Locations

Contract No:
 53240

Drawing No:
 03240/104

Scale @ A3:
 1:500

Drawn By:

QC Check By:

Approved By:

APPROVED

1 of 1



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:  Technical Director

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

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-26562	24-26562	24-26562	24-26562	24-26562	24-26562	24-26562	24-26562	24-26562	24-26562
Quotation No.: Q24-35340		Chemtest Sample ID.:	1853072	1853073	1853074	1853075	1853076	1853077	1853078	1853079		
Order No.: S3240		Client Sample Ref.:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13
		Client Sample ID.:	TSP13-01A	TSP13-02A	TSP13-03A	TSP13-04A	TSP13-05A	TSP13-06A	TSP13-07A	TSP13-08A		
		Sample Location:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Date Sampled:	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	9.7	9.2	9.9	9.1	1.2	11	1.0
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones and Roots	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	5.4	2.6	4.9	4.3	3.1	4.8	2.9
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	27	14	14	11	16	17	8.2
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	32	17	23	5.7	14	32	18
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	20	8.7	10	< 3.0	5.3	12	19
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	84	43	53	24	39	67	71
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	84	43	53	24	39	67	71
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	9.7	< 1.0	1.9	< 1.0	< 1.0	< 1.0	4.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	45	14	15	6.6	5.0	18	23
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	22	4.9	4.8	6.9	2.5	22	14
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	2.7	< 1.0	< 1.0	< 1.0	1.2	7.3	2.0
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	77	20	22	13	7.5	40	41
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	80	20	22	13	< 10	47	43
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	160	63	75	37	46	110	110
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	160	63	75	37	47	110	110
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-26562	24-26562	24-26562	24-26562	24-26562	24-26562	24-26562	24-26562	24-26562	24-26562	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			
		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			
		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	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.31	0.32	0.32
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.15	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.12	< 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	0.49	0.46	0.33	0.55	0.48	0.76	0.43
Anthracene		M	2800	mg/kg	0.10	0.21	< 0.10	0.18	< 0.10	0.31	0.18	0.35	0.18
Fluoranthene		M	2800	mg/kg	0.10	0.92	1.0	1.2	0.76	1.5	1.7	3.7	1.6
Pyrene		M	2800	mg/kg	0.10	0.83	0.85	1.2	0.70	1.3	1.5	3.1	1.5
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.51	0.47	0.64	0.38	0.78	0.90	2.0	0.85
Chrysene		M	2800	mg/kg	0.10	0.50	0.51	0.60	0.36	0.82	0.93	1.9	0.84
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	0.83	0.77	0.95	0.67	1.4	1.6	3.0	1.5
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.29	0.27	0.34	0.25	0.50	0.59	1.0	0.52
Benzo[a]pyrene		M	2800	mg/kg	0.10	0.66	0.62	0.84	0.55	1.2	1.3	2.4	1.3
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	1.0
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	0.19	< 0.10	< 0.10	0.27	0.32	0.21
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	1.0
Total Of 16 PAH's		N	2800	mg/kg	2.0	6.3	6.0	7.9	4.9	10	12	23	11

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		
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Bottom Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Date Sampled:	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024		
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	10	9.9	9.2	9.7	9.0	9.7	9.8
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones and Roots	Stones	Stones and Roots	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	3.0	3.6	2.9	2.2	3.2	3.2	3.1
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	15	12	5.5	7.3	19	23	22
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	36	23	< 2.0	< 2.0	44	49	45
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	29	5.1	< 3.0	< 3.0	100	80	66
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10	20	16	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	83	44	9.0	12	170	150	97
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	83	44	< 10	12	190	170	97
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	2.1	< 1.0	< 1.0	< 1.0	3.9	5.5	4.2
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	28	15	3.9	20	30	47	42
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	21	3.3	< 2.0	37	47	80	110
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	1.1	< 1.0	< 1.0	1.3	26	20	31
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	51	19	5.6	57	82	130	160
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	52	19	< 10	58	110	150	180
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	130	62	15	69	250	290	310
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	140	62	15	70	300	320	280
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-26562	24-26562	24-26562	24-26562	24-26562	24-26562	24-26562	24-26562	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		
		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
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	2.2	0.48	0.36	0.38	< 0.10	0.86	< 0.10
Anthracene		M	2800	mg/kg	0.10	0.82	0.18	0.21	0.18	< 0.10	0.31	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	5.9	1.6	1.4	1.4	0.19	2.1	0.24
Pyrene		M	2800	mg/kg	0.10	4.6	1.4	1.4	1.3	0.19	1.9	0.24
Benzo[a]anthracene		M	2800	mg/kg	0.10	2.5	0.83	0.83	0.78	0.11	1.0	0.13
Chrysene		M	2800	mg/kg	0.10	2.3	0.85	0.85	0.84	0.11	1.0	0.14
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	3.5	1.4	1.6	1.4	0.20	1.8	0.25
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	1.2	0.43	0.58	0.44	< 0.10	0.55	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	3.0	1.2	1.5	1.2	0.16	1.3	0.19
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
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.39	0.20	< 0.10	0.19	< 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
Total Of 16 PAH's		N	2800	mg/kg	2.0	31	11	11	10	< 2.0	13	< 2.0

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

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-26562	24-26562	24-26562	24-26562	24-26562	24-26562	24-26562	24-26562	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	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	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								
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	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	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	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	10	10	10	10	9.9	11	10	11
Soil Colour		N	2040		N/A	Brown	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	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	3.1	2.5	3.7	2.4	3.6	2.1	4.0	3.6
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	29	13	18	11	19	8.4	22	2.8
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	78	46	75	31	68	34	44	7.8
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	57	80	200	19	38	71	29	11
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	36	< 10	< 10	14	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	170	140	300	64	130	110	99	26
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	170	140	330	64	130	130	99	26
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	6.8	2.8	6.6	2.6	6.0	< 1.0	6.0	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	52	29	34	25	34	15	46	3.6
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	180	72	92	62	130	36	120	3.9
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	56	16	17	6.2	32	4.1	22	16
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	230	100	130	90	170	51	170	7.5
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	290	120	150	96	200	55	190	23
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	400	250	430	150	300	170	270	33
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	460	260	480	160	330	180	290	49
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	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	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	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								
Naphthalene		M	2800	mg/kg	0.10	0.33	0.33	0.29	0.27	0.31	0.27	0.35	0.23
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	0.50	0.44	0.28	0.46	0.45	0.74	0.27	0.45
Anthracene		M	2800	mg/kg	0.10	0.34	0.19	0.21	0.19	< 0.10	0.24	0.18	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	1.4	1.5	0.96	1.6	1.3	2.1	0.79	1.4
Pyrene		M	2800	mg/kg	0.10	1.3	1.4	0.84	1.5	1.2	1.9	0.78	1.3
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.69	0.84	0.47	0.91	0.75	0.98	0.41	0.75
Chrysene		M	2800	mg/kg	0.10	0.71	0.86	0.52	0.92	0.78	0.94	0.40	0.80
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.2	1.5	1.0	1.6	1.3	1.6	0.79	1.5
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.41	0.55	0.41	0.53	0.43	0.53	0.26	0.51
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.1	1.3	0.80	1.3	1.0	1.5	0.60	1.3
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	0.95
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.24	< 0.10	< 0.10	0.23	< 0.10	< 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	0.93
Total Of 16 PAH's		N	2800	mg/kg	2.0	9.9	11	7.2	12	9.3	13	6.0	10

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

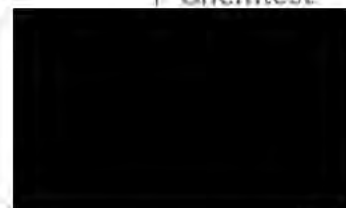
Clean Up Codes

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:
customerservices@chemtest.com



Final Report

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

Re-Issue Details:

Client Sanctus Limited

Client Address:



Contact(s): Labs

Project Adrossan North Shore

Quotation No.: Q24-35340

Date Received: 21-Aug-2024

Order No.: S3240

Date Instructed: 21-Aug-2024

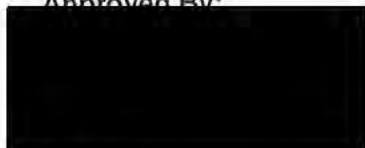
No. of Samples: 37

Turnaround (Wkdays): 3

Results Due: 23-Aug-2024

Date Approved: 26-Aug-2024

Approved By:



Details:  Technical Director

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

Results - Soil

Project: Adrossan North Shore

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

Results - Soil

Project: Adrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903
Quotation No.: Q24-35340		Chemtest Sample ID.:	1854569	1854570	1854571	1854572	1854573	1854574	1854575	1854576	1854577	1854578	1854579
Order No.: S3240		Client Sample Ref.:	TSP13	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	TSP13-11B
		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):	1.7	1.75	1.6	1.75	1.6	1.75	1.55	1.7	1.75	1.6	1.7
		Bottom Depth (m):	1.7	1.75	1.6	1.75	1.6	1.75	1.55	1.7	1.75	1.6	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	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	< 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	0.48	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.36	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.38	1.1	1.3	0.66	0.83	1.0	1.1	0.20
Anthracene		M	2800	mg/kg	0.10	0.19	0.32	0.47	0.24	0.26	0.32	0.33	0.11
Fluoranthene		M	2800	mg/kg	0.10	1.4	2.1	2.8	1.9	2.3	2.5	2.0	0.86
Pyrene		M	2800	mg/kg	0.10	1.3	1.8	2.4	1.6	2.0	2.1	1.6	0.80
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.70	0.93	1.4	0.81	1.0	0.93	0.98	0.50
Chrysene		M	2800	mg/kg	0.10	0.69	0.85	1.4	0.88	1.0	1.1	0.95	0.46
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.4	1.5	2.2	1.3	1.4	1.4	1.6	0.94
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.53	0.52	0.79	0.46	0.46	0.39	0.52	0.30
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.1	1.1	1.9	1.2	1.2	1.1	1.1	0.83
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	0.61
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	0.33	< 0.10	< 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	0.78
Total Of 16 PAH's		N	2800	mg/kg	2.0	9.6	12	18	11	12	14	12	6.4

Results - Soil

Project: Adrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				24-26903	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903	24-26903
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
		Client Sample ID.:				TSP13-09B	TSP13-10B	TSP13-11B	TSP13-12B	TSP13-13B	TSP13-14B	TSP13-15B	TSP13-16B
		Sample Location:				TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				1.7	1.55	1.7	1.6	1.7	1.45	1.6	1.75
		Bottom Depth (m):				1.7	1.55	1.7	1.6	1.7	1.45	1.6	1.75
		Date Sampled:				20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Moisture		N	2030	%	0.020	13	15	13	14	6.5	12	15	14
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones and Roots	Stones and Roots	Roots and Stones	Stones and Roots	Roots and Stones	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	< 2.0	< 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	< 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	26
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	23	18	4.8	9.3	25	12	13	17
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	62	45	19	15	52	28	37	43
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	62	45	19	15	52	28	37	43
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	25	11	13	4.5	11	5.9	18	12
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	16	10	15	5.6	17	5.1	30	12
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	1.9
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	41	21	28	10	28	11	49	24
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	81	31	30	11	34	13	61	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	100	66	48	25	80	39	86	67
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	140	75	49	27	86	41	99	69
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: 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		
		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	24-26903
Quotation No.: Q24-35340		Chemtest Sample ID.:	1854593	1854594	1854595	1854596	1854597	1854598	1854599	1854600			
Order No.: S3240		Client Sample Ref.:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13
		Client Sample ID.:	TSP13-25B	TSP13-26B	TSP13-27B	TSP13-28B	TSP13-29B	TSP13-30B	TSP13-31B	TSP13-32B			
		Sample Location:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13
		Sample Type:	SOIL	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	20-Aug-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Moisture		N	2030	%	0.020	14	11	13	16	13	14	15	15
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	Stones	Stones	Stones and Brick	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	< 2.0	< 2.0	2.3	< 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	5.4	17	11	11	3.6	11
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	37
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	32
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	12	< 10	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	80
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	15	< 10	79	120	87	81	28	80
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	2.2	< 1.0	< 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	27
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	27
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	1.5	< 1.0	40	21	18	30	11	19
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	55
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	13	< 10	65	58	67	89	17	74
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	26	< 10	92	150	130	140	24	130
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	28	< 10	140	170	150	170	45	150
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: Adrossan North Shore

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

Results - Soil

Project: Adrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-26903	24-26903	24-26903	24-26903	24-26903
Quotation No.: Q24-35340		Chemtest Sample ID.:	1854601	1854602	1854603	1854604	1854605
Order No.: S3240		Client Sample Ref.:	TSP13	TSP13	TSP13	TSP13	TSP13
		Client Sample ID.:	TSP13-33B	TSP13-34B	TSP13-35B	TSP13-36B	TSP13-37B
		Sample Location:	TSP13	TSP13	TSP13	TSP13	TSP13
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	1.5	1.5	1.45	1.6	1.55
		Bottom Depth (m):	1.5	1.5	1.45	1.6	1.55
		Date Sampled:	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024	20-Aug-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Moisture		N	2030	%	0.020	12	15
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

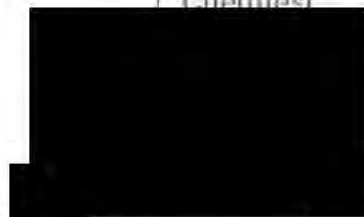
Clean Up Codes

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:
customerservices@chemtest.com



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

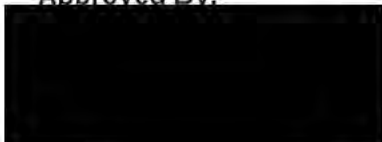
Turnaround (Wkdays): 4

Results Due: 05-Sep-2024

Date Approved: 05-Sep-2024

Subcon Results Due: 05-Sep-2024

Approved By:



Details: Technical Director



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

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-28143	24-28143	24-28143	24-28143	24-28143	24-28143	24-28143	24-28143	24-28143	24-28143
Quotation No.: Q24-35340		Chemtest Sample ID.:	1859708	1859709	1859710	1859711	1859712	1859713	1859714	1859715		
Order No.: S3240		Client Sample Ref.:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13
		Client Sample ID.:	TSP13-01C	TSP13-02C	TSP13-03C	TSP13-04C	TSP13-05C	TSP13-06C	TSP13-07C	TSP13-08C		
		Sample Location:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13		
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Bottom Depth (m):	1.80	1.65	1.75	1.80	1.65	1.80	1.90	1.85		
		Date Sampled:	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024	29-Aug-2024		
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	15	13	23	13	15	16	16
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones and Roots	Stones	Stones and Brick	Stones and Brick
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	3.1	3.7	3.2	3.1	2.7	2.4	2.6
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	5.4	8.2	4.0	9.1	1.4	1.4	2.1
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	8.6	23	30	32	11	14	20
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	< 3.0	15	26	16	< 3.0	5.5	8.4
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	19	50	63	61	18	23	33
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	19	50	63	61	18	23	33
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	1.8	< 1.0	< 1.0	1.3	< 1.0	< 1.0	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	3.7	6.7	16	15	7.4	8.4	14
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	6.3	16	28	22	11	14	29
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	1859724	1859725
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	TSP13-17C	TSP13-18C
		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	1.75	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	29-Aug-2024	29-Aug-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	15	16	16	16	16	15	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	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	3.1	4.2	4.1	4.6	4.9	3.0	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	26
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		
		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							
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	5.3
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	24-28143
Quotation No.: Q24-35340		Chemtest Sample ID.:	1859732	1859733	1859734	1859735	1859736	1859737	1859738	1859739			
Order No.: S3240		Client Sample Ref.:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13
		Client Sample ID.:	TSP13-25C	TSP13-26C	TSP13-27C	TSP13-28C	TSP13-29C	TSP13-30C	TSP13-31C	TSP13-32C			
		Sample Location:	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13	TSP13			
		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.	SQP	Units	LOD								
Moisture		N	2030	%	0.020	15	15	16	15	16	15	15	13
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 and Roots	Stones and Roots	Stones and Roots
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Clay	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	3.6	3.9	5.6	4.8	4.1	4.5	4.3	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	8.5	39
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	19	52	28	27	12	15	16	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	41
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	46	110	69	71	25	37	39	160
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	46	110	69	71	25	37	39	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	< 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	1.3	< 1.0	< 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	11
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	26	47	26	32	8.7	23	21	35
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	34	29	12	11	30	26	15	12
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	10
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	69	90	41	48	40	52	40	59
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	79	110	49	57	43	70	70	69
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	110	200	110	120	64	89	79	220
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	120	220	120	130	68	110	110	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.:	24-28143	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		
		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	21
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[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	

Report Information

Key

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

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

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

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

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

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

All results are expressed on a dry weight basis.

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

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

All Asbestos testing is performed at the indicated laboratory .

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

Sample Deviation Codes

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

Sample Retention and Disposal

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

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

Charges may apply to extended sample storage.

Water Sample Category Key for Accreditation

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

Report Information

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

Clean Up Codes

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

HWOL Acronym System

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

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

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

Stockpile ID: TSP13

Material Volume:

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:

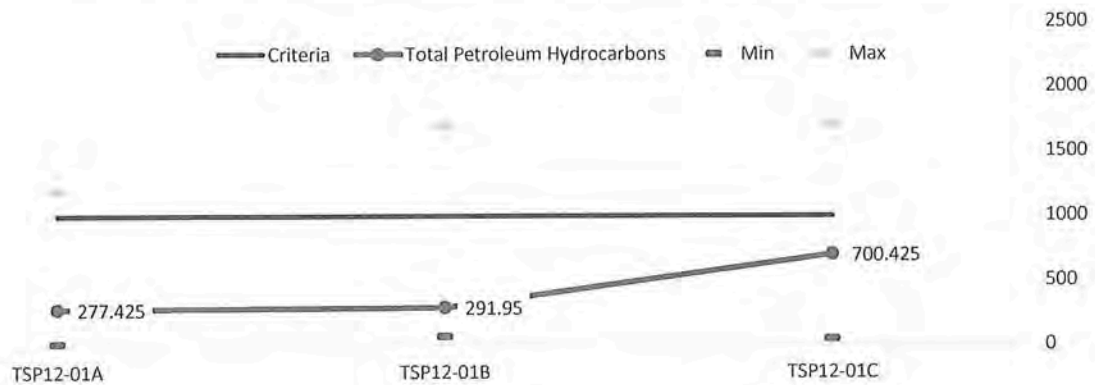
Test Results: PASS / FAIL

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

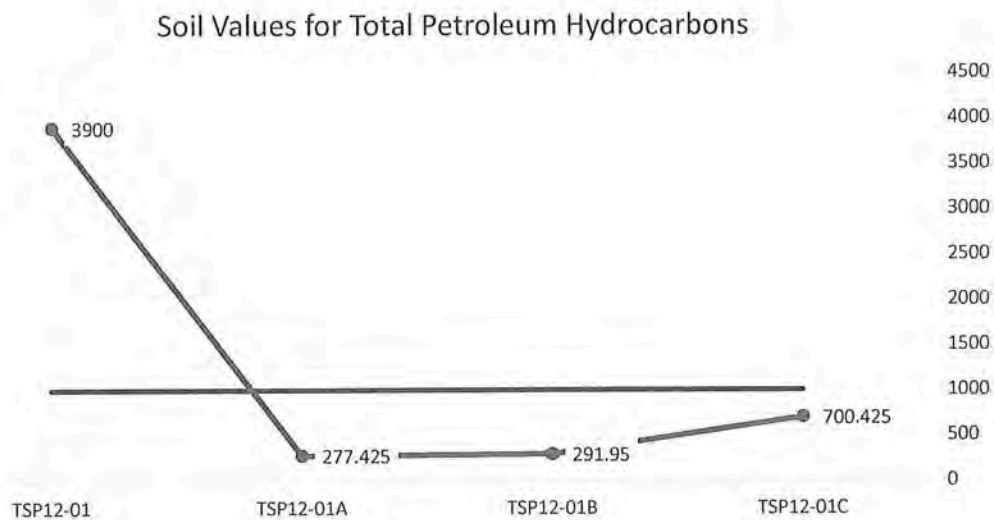
Data Trend for Total TPH levels:

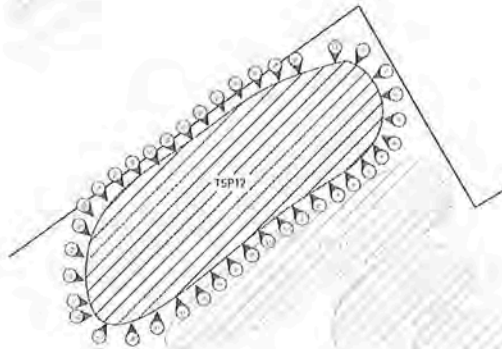
Min & Max Soil Values for Total Petroleum Hydrocarbons



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)):



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. All three monitoring rounds return a confidence level of >95% confidence when compared to the statistical confidence critical level of 1,000mg/kg for total TPH. Each round's average for the total TPH levels have been significantly below the 1,000mg/kg threshold level.
3. The laboratory analysis results are representative of the materials investigated.
4. The material released will also be recorded spatially at its reuse location.

NAME:

POSITION: Senior Environmental Engineer

DATE: 07/10/2024

SIGNED:

 Recoverable Signature

Senior Environmental Engineer

Signed by:

Record of reuse

For Sanctus Use Only:

Approved for reuse:

Beginning of Movement from stockpile:

End of Movement into site:



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

Project Name:
North Shore, Ardrossan

Client:
North Ayrshire Council

Drawing Title:
Treated Stockpile 12 Sample Locations

Contract No.:
S3240

Drawing No.:
D3240/103

Scale: A3:
1:500

Drawn By:

QC Check By:

Approved By:

APPROVED

[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: Technical Director

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

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293
Quotation No.: Q24-35340		Chemtest Sample ID.:	1856148	1856149	1856150	1856151	1856152	1856153	1856154	1856155		
Order No.: S3240		Client Sample Ref.:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12		
		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		
		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):	1.55	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		
		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			
		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			
		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):	1.55	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			
		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	1856163	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	TSP12-16A	TSP12-16A
		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):	1.95	1.75	1.90	2.10	1.70	1.50	1.80	1.85	1.85	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	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		
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Bottom Depth (m):	1.70	1.80	1.60	1.50	1.50	1.55	1.40	1.40		
		Date Sampled:	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024		
		Asbestos Lab:										
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	17	16	15	23	18	48	14
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	< 10	13	< 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	< 1.0	49	2.6
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
Quotation No.: Q24-35340		Chemtest Sample ID.:				1856164	1856165	1856166	1856167	1856168	1856169	1856170	1856171
Order No.: S3240		Client Sample Ref.:				TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12
		Client Sample ID.:				TSP12-17A	TSP12-18A	TSP12-19A	TSP12-20A	TSP12-21A	TSP12-22A	TSP12-23A	TSP12-24A
		Sample Location:				TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):				1.70	1.80	1.60	1.50	1.50	1.55	1.40	1.40
		Date Sampled:				21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024
		Asbestos Lab:											
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Naphthalene		U	2800	mg/kg	0.10	< 0.10	0.23	0.16	< 0.10	< 0.10	< 0.10	0.15	< 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		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	0.26	< 0.10	< 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	0.51
Anthracene		U	2800	mg/kg	0.10	0.51	< 0.10	0.19	0.21	0.32	0.21	0.24	< 0.10
Fluoranthene		U	2800	mg/kg	0.10	2.1	0.90	1.4	1.3	1.8	1.3	1.2	1.2
Pyrene		U	2800	mg/kg	0.10	1.8	0.94	1.2	1.2	1.5	1.2	1.1	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	0.71
Chrysene		U	2800	mg/kg	0.10	1.3	0.57	0.77	0.77	0.92	0.70	0.66	0.67
Benzo[b]fluoranthene		U	2800	mg/kg	0.10	1.9	0.98	1.4	1.3	1.6	1.2	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	0.40
Benzo[a]pyrene		U	2800	mg/kg	0.10	1.4	0.79	0.91	0.94	1.2	0.91	0.97	0.91
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	0.93
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.52	< 0.10	< 0.10	0.21	< 0.10	< 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	0.86
Total Of 16 PAH's		N	2800	mg/kg	2.0	15	7.0	9.2	9.2	12	8.5	8.9	8.5

Results - Soil

Project: S3240 Ardrossan North Shore

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

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293	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							
Naphthalene		U	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.17	0.22	0.17
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	< 0.10	0.53	0.66	0.76	0.47	0.92	0.66
Anthracene		U	2800	mg/kg	0.10	< 0.10	0.20	< 0.10	0.30	0.20	0.35	< 0.10
Fluoranthene		U	2800	mg/kg	0.10	2.1	1.5	2.0	2.1	1.5	2.5	1.9
Pyrene		U	2800	mg/kg	0.10	1.9	1.2	2.0	1.9	1.4	2.1	1.8
Benzo[a]anthracene		U	2800	mg/kg	0.10	< 0.10	0.73	0.98	1.0	0.76	1.2	1.1
Chrysene		U	2800	mg/kg	0.10	< 0.10	0.72	1.2	1.0	0.90	1.3	1.3
Benzo[b]fluoranthene		U	2800	mg/kg	0.10	< 0.10	1.3	1.8	1.7	1.5	2.2	2.0
Benzo[k]fluoranthene		U	2800	mg/kg	0.10	< 0.10	0.43	0.61	0.54	0.51	0.69	0.74
Benzo[a]pyrene		U	2800	mg/kg	0.10	< 0.10	1.1	1.2	1.3	1.2	1.7	1.6
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
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.27	0.23
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
Total Of 16 PAH's		N	2800	mg/kg	2.0	4.0	9.5	13	13	11	16	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.:	1856180	1856181	1856182	1856183	1856184	1856185	1856186	1856187	1856188	1856189
Order No.: S3240		Client Sample Ref.:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12
		Client Sample ID.:	TSP12-33A	TSP12-34A	TSP12-35A	TSP12-36A	TSP12-37A	TSP12-38A	TSP12-39A	TSP12-40A	TSP12-41A	TSP12-42A
		Sample Location:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	1.45	1.50	1.65	1.55	1.35	1.45	1.60	1.40	1.50	1.60
		Date Sampled:	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024	21-Aug-2024
		Asbestos Lab:										
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Moisture		N	2030	%	0.020	15	18	17	18	17	13	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	3.5	5.0	4.3	4.7	2.9	4.5	3.8
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	U	2690	mg/kg	1.00	3.6	16	16	23	7.9	7.5	4.3
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	U	2690	mg/kg	2.00	15	35	36	46	77	19	15
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	U	2690	mg/kg	3.00	11	24	23	30	90	13	7.1
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	U	2690	mg/kg	5.00	33	80	80	100	180	45	31
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	33	80	80	100	180	45	31
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	4.9	3.6	4.8	< 1.0	1.6	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	16	30	30	34	8.8	21	13
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	9.7	23	23	27	8.6	13	4.1
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	1.0	5.9	12	16	5.0	3.4	< 1.0
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	25	58	56	65	17	36	18
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	26	63	68	81	22	40	18
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	58	140	140	170	200	81	48
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	59	140	150	180	200	84	48
Benzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293	24-27293
Quotation No.: Q24-35340		Chemtest Sample ID.:	1856180	1856181	1856182	1856183	1856184	1856185	1856186	1856187		
Order No.: S3240		Client Sample Ref.:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	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	0.38
Fluoranthene		U	2800	mg/kg	0.10	1.4	1.1	2.3	1.5	1.8	2.0	2.3
Pyrene		U	2800	mg/kg	0.10	1.2	1.0	2.1	1.4	1.6	2.1	1.9
Benzo[a]anthracene		U	2800	mg/kg	0.10	0.75	0.70	1.0	0.86	0.92	< 0.10	1.2
Chrysene		U	2800	mg/kg	0.10	0.75	0.69	1.2	0.85	0.93	< 0.10	1.3
Benzo[b]fluoranthene		U	2800	mg/kg	0.10	1.3	1.1	2.0	1.5	1.7	< 0.10	1.9
Benzo[k]fluoranthene		U	2800	mg/kg	0.10	0.40	0.35	0.62	0.52	0.45	< 0.10	0.71
Benzo[a]pyrene		U	2800	mg/kg	0.10	1.1	0.87	1.4	1.4	1.4	< 0.10	1.5
Indeno(1,2,3-c,d)Pyrene		U	2800	mg/kg	0.10	0.83	0.77	1.1	1.1	1.1	< 0.10	1.2
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		U	2800	mg/kg	0.10	0.99	0.85	1.3	1.1	1.1	< 0.10	1.3
Total Of 16 PAH's		N	2800	mg/kg	2.0	9.7	7.8	14	11	12	5.1	15

Test Methods

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

Report Information

Key

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

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

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

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

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

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

All results are expressed on a dry weight basis.

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

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

All Asbestos testing is performed at the indicated laboratory .

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

Sample Deviation Codes

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

Sample Retention and Disposal

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

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

Charges may apply to extended sample storage.

Water Sample Category Key for Accreditation

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

Report Information

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

Clean Up Codes

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

HWOL Acronym System

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

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



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:

Technical Director

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

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144	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	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):	1.75	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
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		
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	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		
		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		
		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	1859777	1859778
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	TSP12-33B	TSP12-34B
		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):	1.80	1.85	1.75	1.90	1.95	1.55	1.70	1.80	1.90	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	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
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		
		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
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	0.43	0.32	0.43	1.1	0.25	2.0	< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10	0.17	< 0.10	0.27	< 0.10	0.71	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	1.2	1.6	1.1	1.9	0.73	4.9	1.1
Pyrene		M	2800	mg/kg	0.10	1.1	1.3	1.0	1.6	0.71	4.0	0.98
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.65	0.80	0.69	0.82	< 0.10	2.1	0.52
Chrysene		M	2800	mg/kg	0.10	0.59	0.75	0.71	0.80	< 0.10	1.9	0.59
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.1	1.2	0.91	1.2	< 0.10	2.7	1.0
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.37	0.39	0.39	0.39	< 0.10	0.93	0.35
Benzo[a]pyrene		M	2800	mg/kg	0.10	0.96	1.0	0.90	0.99	< 0.10	2.1	0.84
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
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.14	< 0.10	0.26	< 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
Total Of 16 PAH's		N	2800	mg/kg	2.0	7.9	8.9	7.4	11	< 2.0	25	6.7

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	1859784	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	TSP12-40B	TSP12-40B
		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):	1.65	1.70	1.55	1.80	1.75	1.80	1.95	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	16	13	13	14	14	14	14
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	3.1	4.3	2.7	4.3	3.6	3.3	4.7
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	11	18	9.3	33	16	22	21
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	94	94	61	110	57	80	64
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	68	40	56	110	43	81	66
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	10	< 10	16	11
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	180	160	130	250	120	190	160
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	180	160	130	260	120	200	170
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	1.6	7.9	1.7	4.0	3.3	6.5	3.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	11	14	15	25	35	50	23
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	12	15	24	25	45	52	26
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	59	73	38	22	17	29	45
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	24	38	42	54	83	110	52
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	84	110	80	76	100	140	97
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	200	190	170	300	200	300	210
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	260	270	210	340	220	340	260
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	0.13	< 0.10	0.11	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144	24-28144
Quotation No.: Q24-35340		Chemtest Sample ID.:	1859777	1859778	1859779	1859780	1859781	1859782	1859783	1859784		
Order No.: S3240		Client Sample Ref.:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	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	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):	1.65	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	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	2.1
Anthracene		M	2800	mg/kg	0.10	0.36	< 0.10	0.40	0.17	< 0.10	0.19	0.68
Fluoranthene		M	2800	mg/kg	0.10	1.7	1.6	2.5	1.1	1.0	1.1	4.3
Pyrene		M	2800	mg/kg	0.10	1.5	1.4	2.3	1.1	1.0	1.0	3.5
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.70	0.75	1.4	0.57	0.55	0.61	1.7
Chrysene		M	2800	mg/kg	0.10	0.66	0.76	1.3	0.61	0.53	0.63	1.7
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.2	1.2	2.3	1.1	1.1	1.1	2.2
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.40	0.37	0.68	0.32	0.38	0.36	0.75
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.0	1.0	2.0	0.92	0.91	0.88	1.9
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.75	0.80	1.4	0.70	0.75	0.73	1.4
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.12	0.22
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.83	0.83	1.4	0.71	0.78	0.74	1.4
Total Of 16 PAH's		N	2800	mg/kg	2.0	10	9.2	17	7.6	7.3	7.8	22

Test Methods

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

Report Information

Key

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

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

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

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

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

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

All results are expressed on a dry weight basis.

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

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

All Asbestos testing is performed at the indicated laboratory .

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

Sample Deviation Codes

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

Sample Retention and Disposal

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

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

Charges may apply to extended sample storage.

Water Sample Category Key for Accreditation

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

Report Information

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

Clean Up Codes

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

HWOL Acronym System

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

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



Final Report

Report No.: 24-28559-1

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: Technical Director

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

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559
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
		Client Sample ID.:				TSP12-01C	TSP12-02C	TSP12-03C	TSP12-04C	TSP12-05C	TSP12-06C	TSP12-07C	TSP12-08C
		Sample Location:				TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):				1.70	1.75	1.65	1.60	1.80	1.85	1.75	1.90
		Date Sampled:				03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Moisture		N	2030	%	0.020	12	12	12	13	12	13	11	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
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
		Client Sample ID.:					TSP12-01C	TSP12-02C	TSP12-03C	TSP12-04C	TSP12-05C	TSP12-06C	TSP12-07C	TSP12-08C
		Sample Location:					TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12
		Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):					1.70	1.75	1.65	1.60	1.80	1.85	1.75	1.90
		Date Sampled:					03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD									
Naphthalene		M	2800	mg/kg	0.10	0.32	< 0.10	< 0.10	< 0.10	0.35	0.31	0.23	0.17	
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Phenanthrene		M	2800	mg/kg	0.10	0.51	< 0.10	0.47	0.32	0.72	0.64	0.32	0.49	
Anthracene		M	2800	mg/kg	0.10	0.44	< 0.10	0.30	< 0.10	0.34	0.34	0.16	0.48	
Fluoranthene		M	2800	mg/kg	0.10	1.9	0.92	1.9	0.89	2.0	2.2	1.0	1.3	
Pyrene		M	2800	mg/kg	0.10	1.8	0.93	1.7	0.88	1.8	2.0	0.94	1.3	
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.99	0.50	0.88	0.42	0.99	1.1	0.42	0.77	
Chrysene		M	2800	mg/kg	0.10	1.0	0.63	0.89	0.59	0.92	1.1	< 0.10	0.98	
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.7	0.92	1.5	0.95	1.7	1.9	< 0.10	1.5	
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.56	0.29	0.51	0.41	0.62	0.64	< 0.10	0.65	
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.3	0.86	1.2	0.77	1.4	1.5	< 0.10	1.1	
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.96	0.56	0.79	0.69	0.98	1.1	< 0.10	0.91	
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.37	
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.96	0.68	0.84	0.62	1.0	1.1	< 0.10	1.0	
Total Of 16 PAH's		N	2800	mg/kg	2.0	12	6.3	11	6.5	13	14	3.1	11	

Results - Soil

Project: S3240 Ardrossan North Shore

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

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559
Quotation No.: Q24-35340		Chemtest Sample ID.:	1861890	1861891	1861892	1861893	1861894	1861895	1861896	1861897			
Order No.: S3240		Client Sample Ref.:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12
		Client Sample ID.:	TSP12-09C	TSP12-10C	TSP12-11C	TSP12-12C	TSP12-13C	TSP12-14C	TSP12-15C	TSP12-16C			
		Sample Location:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	1.95	1.55	1.70	1.80	1.65	1.70	1.55	1.80			
		Date Sampled:	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
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	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):	1.75	1.80	1.95	1.70	1.65	1.70	1.80	1.95			
		Date Sampled:	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	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
Quotation No.: Q24-35340		Chemtest Sample ID.:	1861898	1861899	1861900	1861901	1861902	1861903	1861904	1861905		
Order No.: S3240		Client Sample Ref.:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12
		Client Sample ID.:	TSP12-17C	TSP12-18C	TSP12-19C	TSP12-20C	TSP12-21C	TSP12-22C	TSP12-23C	TSP12-24C		
		Sample Location:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Bottom Depth (m):	1.75	1.80	1.95	1.70	1.65	1.70	1.80	1.95		
		Date Sampled:	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024	03-Sep-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Naphthalene		M	2800	mg/kg	0.10	0.18	< 0.10	0.25	< 0.10	0.30	< 0.10	0.31
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	0.33	0.54	0.26	0.79	0.42	0.50
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.26	0.21
Fluoranthene		M	2800	mg/kg	0.10	0.88	0.99	1.5	0.70	1.6	1.2	1.5
Pyrene		M	2800	mg/kg	0.10	0.98	0.98	1.3	0.76	1.4	1.3	1.4
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.62	0.55	0.68	0.41	0.78	0.70	0.77
Chrysene		M	2800	mg/kg	0.10	0.67	0.65	0.74	0.55	0.92	0.85	0.87
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.1	1.1	1.4	0.80	1.5	1.5	1.4
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.43	0.37	0.52	0.32	0.48	0.52	0.46
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.0	0.83	1.2	0.62	1.1	1.1	1.1
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.65	0.59	0.96	0.49	0.83	0.93	0.84
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.78	0.64	0.89	0.49	0.94	0.91	0.88
Total Of 16 PAH's		N	2800	mg/kg	2.0	7.3	7.0	10	5.4	11	9.7	10

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559
Quotation No.: Q24-35340		Chemtest Sample ID.:	1861906	1861907	1861908	1861909	1861910	1861911	1861912			
Order No.: S3240		Client Sample Ref.:	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	TSP12	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	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):	1.80	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	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	13
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, Roots and Brick	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	15	9.6	27	14	15	16	30
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	130	86	170	140	120	130	180
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	350	220	390	270	330	370	520
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	240	160	280	250	240	400	440
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	14	22	48	< 10	28	18
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	740	470	860	680	700	920	1200
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	740	490	890	720	700	950	1200
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	1.8	1.5	< 1.0	1.9	2.1
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	19	12	27	18	18	27	70
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	65	46	71	60	59	73	140
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	58	43	67	83	67	110	97
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	100	42	81	110	95	210	170
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	140	100	170	160	140	210	310
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	250	140	250	270	240	420	480
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	880	570	1000	840	850	1100	1500
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	980	630	1100	990	940	1400	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

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

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				24-28559	24-28559	24-28559	24-28559	24-28559	24-28559	24-28559
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	mg/kg	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*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	

Report Information

Key

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

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

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

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

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

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

All results are expressed on a dry weight basis.

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

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

All Asbestos testing is performed at the indicated laboratory.

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

Sample Deviation Codes

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

Sample Retention and Disposal

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

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

Charges may apply to extended sample storage.

Water Sample Category Key for Accreditation

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

Report Information

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

Clean Up Codes

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

HWOL Acronym System

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

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

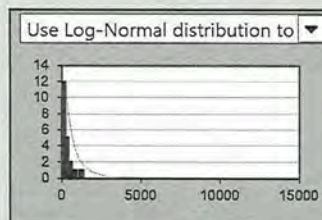
Test Results

Client/client ref: Sanctus
Project ref: S3240

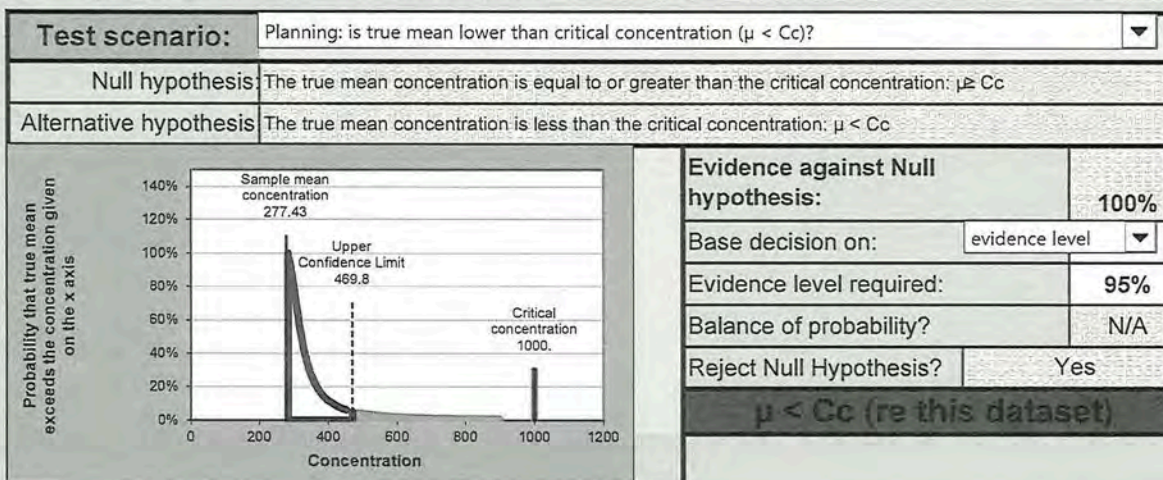
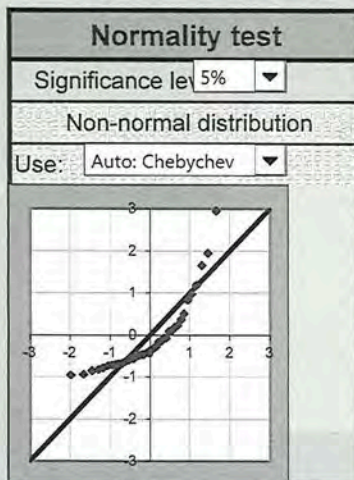
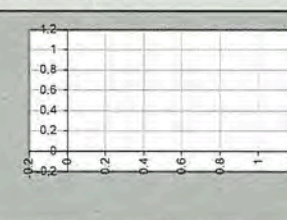
Site ref: Ardrossan
Data description: Total TPH TSP12 Round 1

Date: 30-Aug-2024
User details: JRA

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



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



Test Results

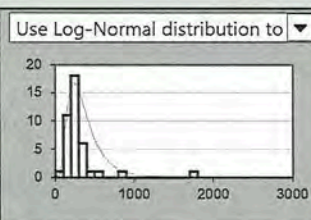
Client/client ref: Sanctus
Project ref: S3240

Site ref: Ardrossan

Date: 10-Sep-2024

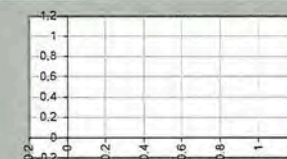
Data description: Total TPH levels TSP12 Round 2 User details: JRA

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



Outliers & non-detects

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

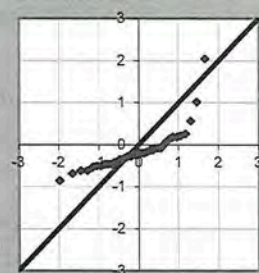


Normality test

Significance level 5%

Non-normal distribution

Use: Auto: Chebychev



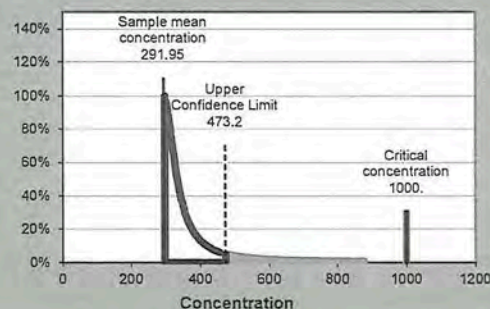
Test scenario:

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

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

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

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



Evidence against Null hypothesis:

100%

Base decision on: evidence level

Evidence level required: 95%

Balance of probability? N/A

Reject Null Hypothesis? Yes

$\mu < C_c$ (re this dataset)

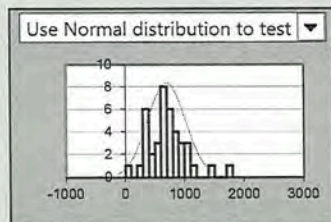
Test Results

Client/client ref: Sanctus
Project ref: S3240

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

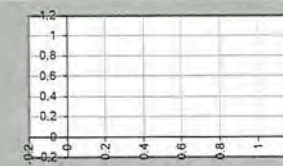
Date: 10-Sep-2024
User details: JRA

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



Outliers & non-detects

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

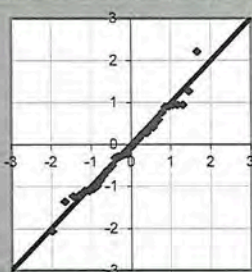


Normality test

Significance level 5%

Normal distribution

Use: Auto: One-sample

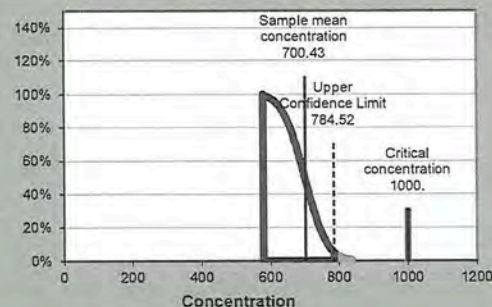


Test scenario: Planning: is true mean lower than critical concentration ($\mu < C_c$)?

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%

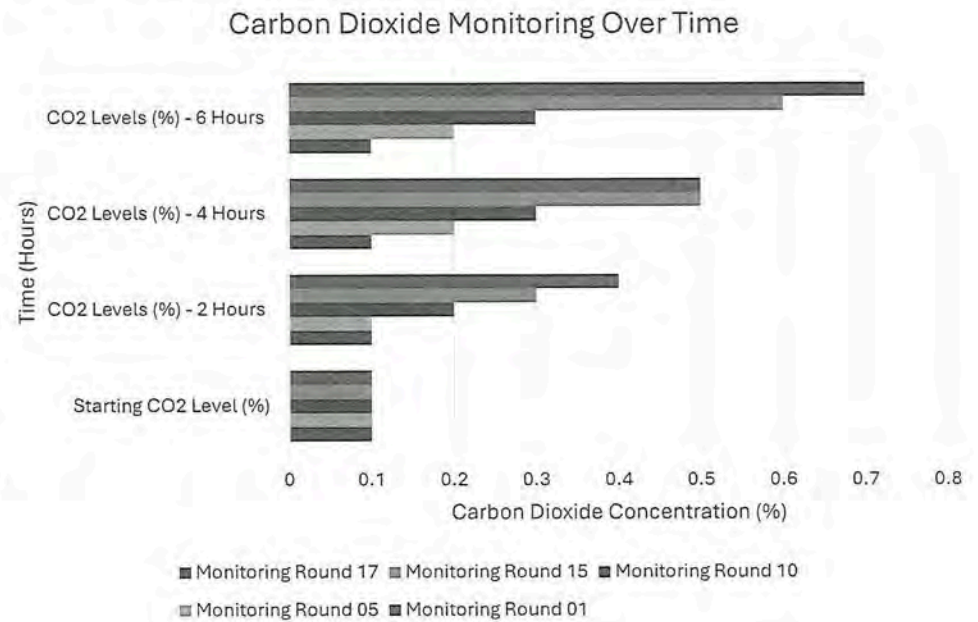
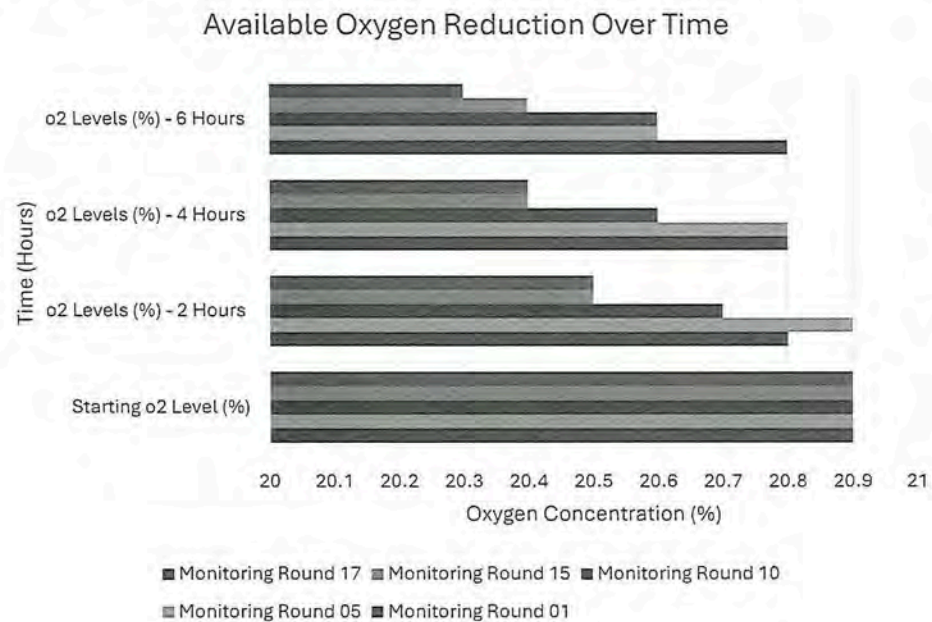
Balance of probability? N/A

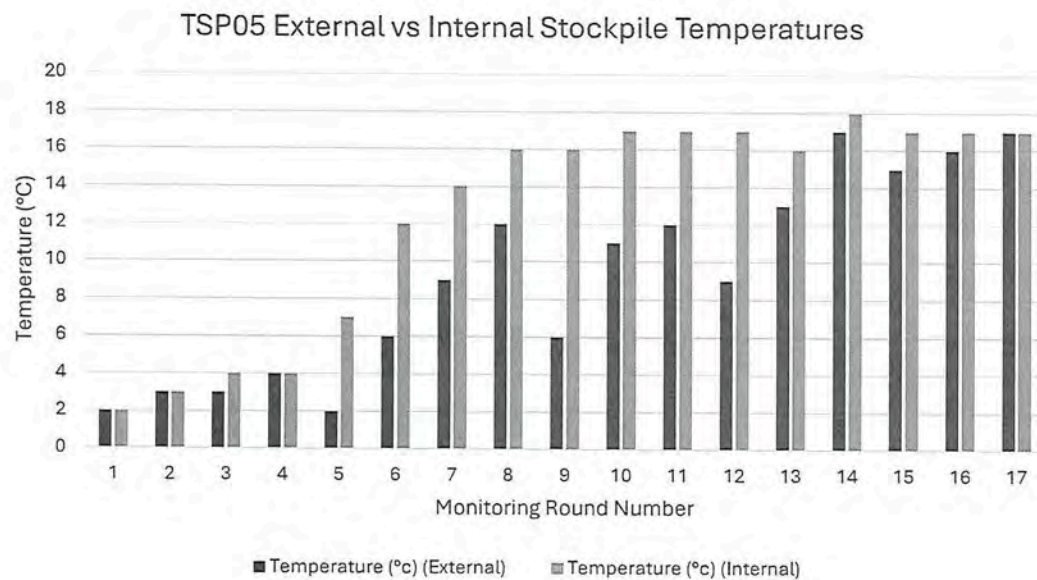
Reject Null Hypothesis? Yes

$\mu < C_c$ (re this dataset)

Appendix G Sanctus Bioremediation Stock Pile Monitoring Data

TSP05 Oxygen vs Carbon Dioxide Concentration (%) over time Bar Charts. Data presented within Table 5-2.

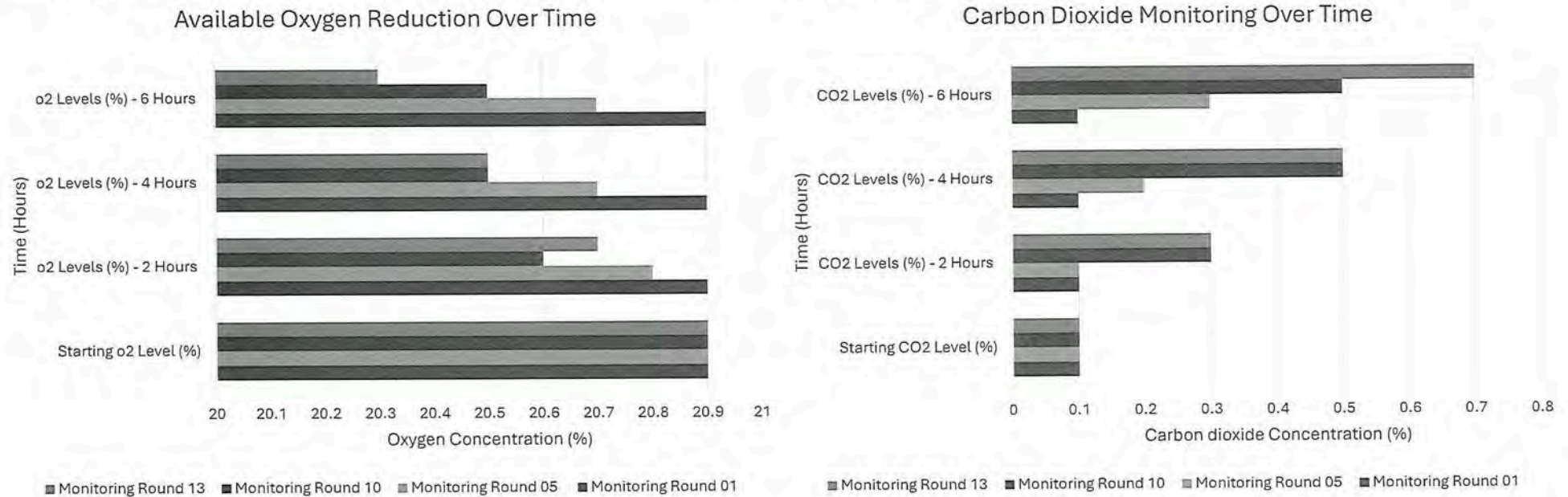




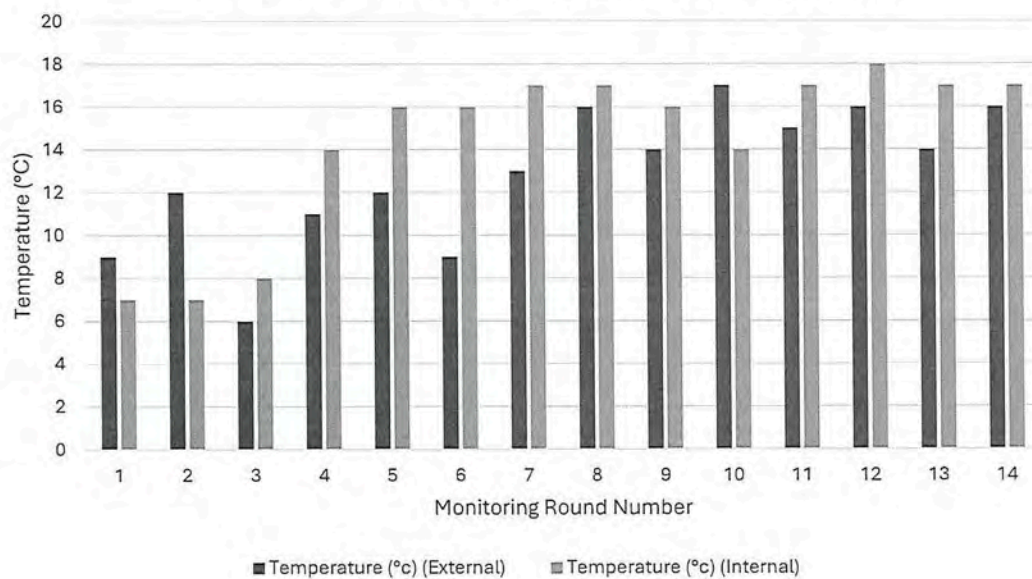
TSP05 Temperature Summary			
Monitoring Round No	Date	Temperature (°C) (External)	Temperature (°C) (Internal)
1	18-Dec	2	2
2	11-Jan	3	3
3	25-Jan	3	4
4	06-Feb	4	4
5	22-Feb	2	7
6	06-Mar	6	12
7	20-Mar	9	14
8	03-Apr	12	16
9	10-Apr	6	16
10	17-Apr	11	17
11	24-Apr	12	17
12	01-May	9	17
13	08-May	13	16
14	17-Jun	17	18
15	09-Jul	15	17
16	17-Jul	16	17
17	23-Jul	17	17

TSP06

TSP06 Oxygen vs Carbon Dioxide Concentration (%) over time Bar Charts. Data presented within Table 5-3.



TSP06 External vs Internal Stockpile Temperatures

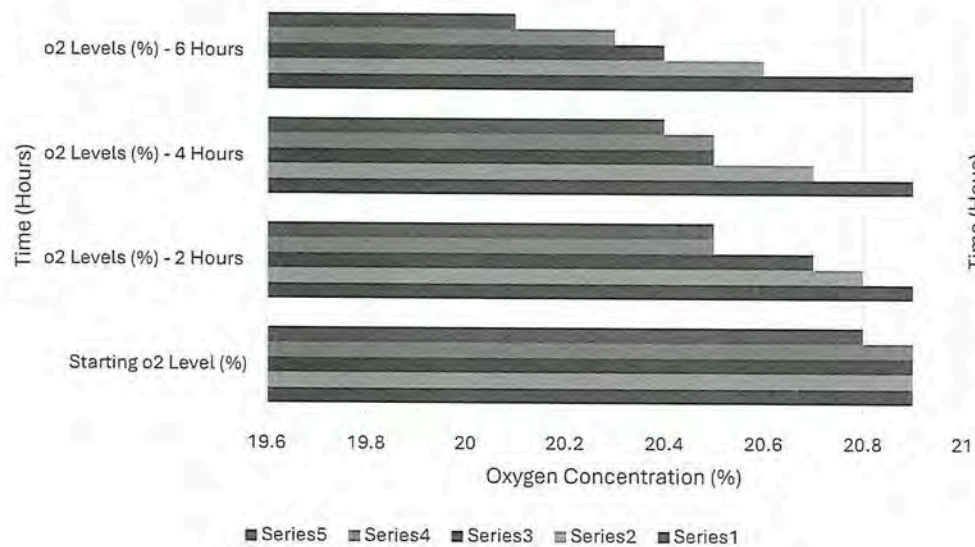


TSP06 Temperature Summary

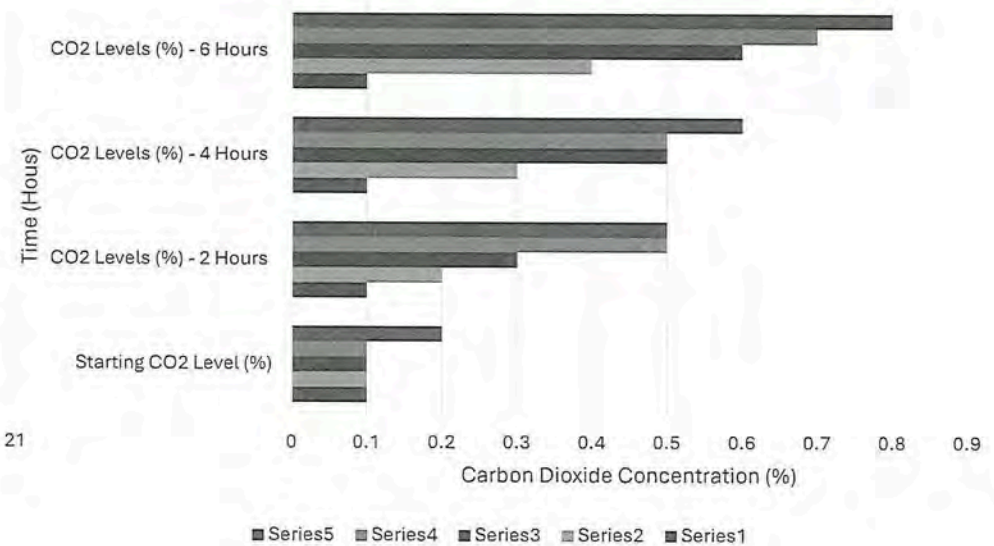
Monitoring Round No	Date	Temperature (°c) (External)	Temperature (°c) (Internal)
1	21-Mar	9	7
2	03-Apr	12	7
3	10-Apr	6	8
4	17-Apr	11	14
5	24-Apr	12	16
6	01-May	9	16
7	08-May	13	17
8	15-May	16	17
9	22-May	14	16
10	17-Jun	17	14
11	25-Jun	15	17
12	02-Jul	16	18
13	10-Jul	14	17
14	16-Jul	16	17

TSP08 Oxygen vs Carbon Dioxide Concentration (%) over time Bar Charts. Data presented within Table 5-4.

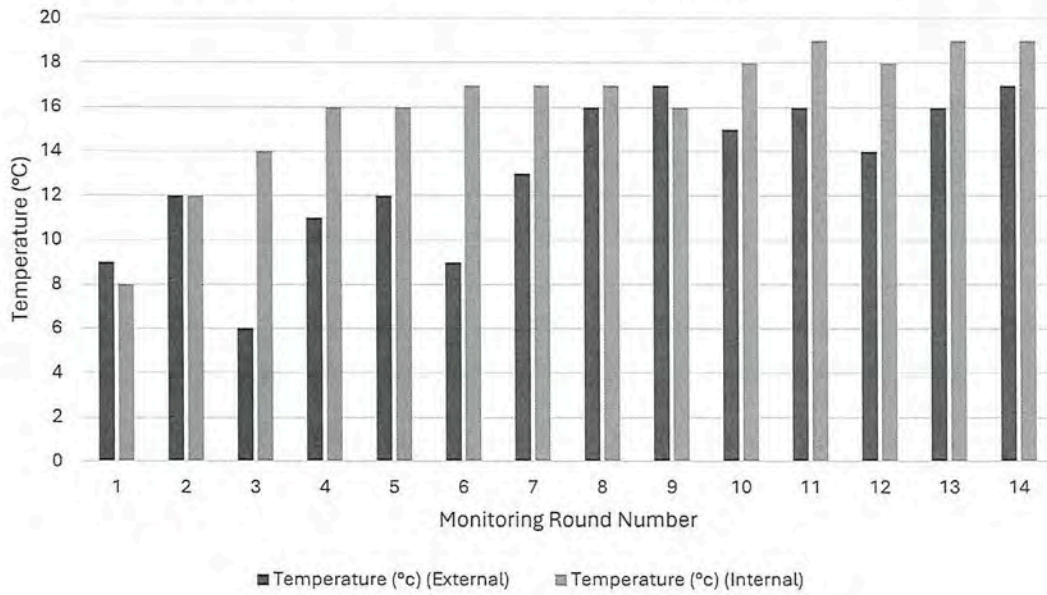
Available Oxygen Reduction Over Time



Carbon Dioxide Monitoring Over Time



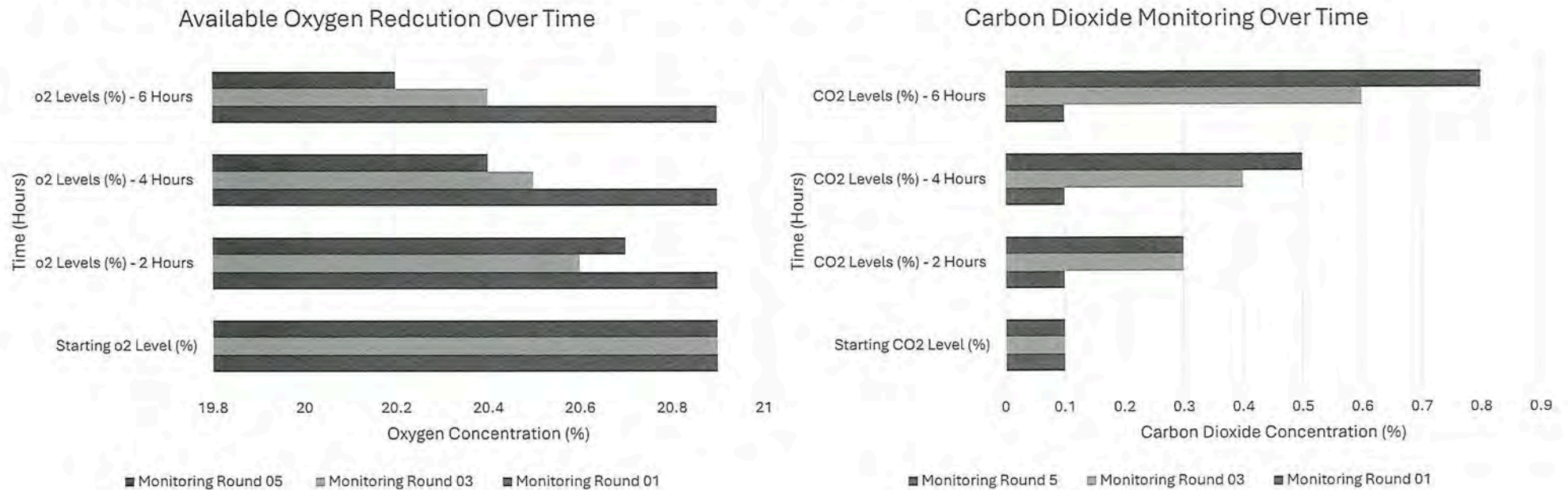
TSP08 External vs Internal Stockpile Temperatures



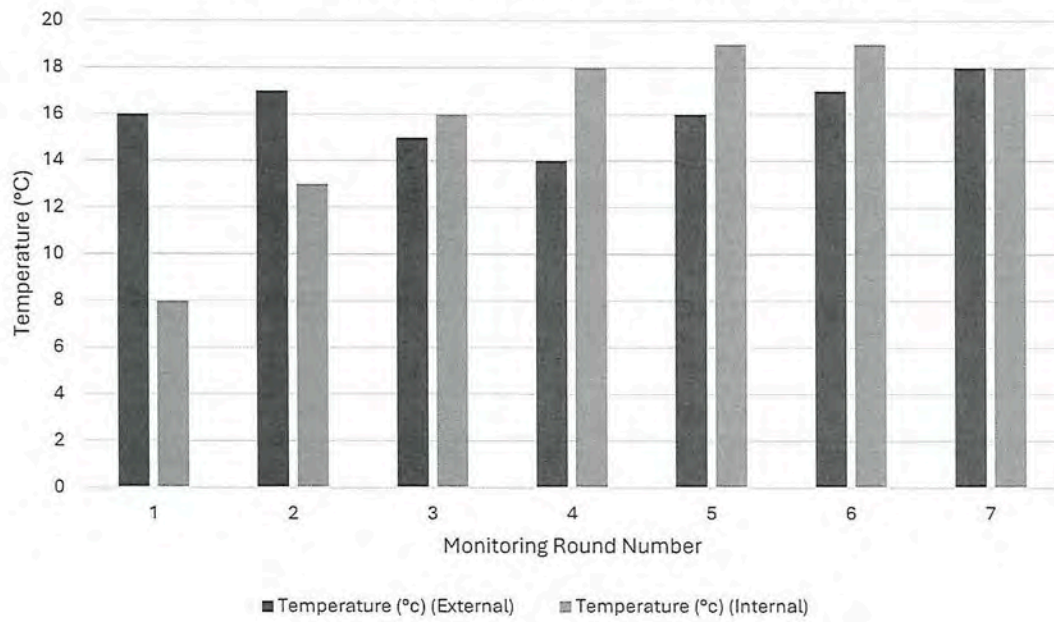
TSP08 Temperature Summary

Monitoring Round No	Date turned	Temperature (°c) (External)	Temperature (°c) (Internal)
1	21-Mar	9	8
2	03-Apr	12	12
3	10-Apr	6	14
4	17-Apr	11	16
5	24-Apr	12	16
6	01-May	9	17
7	08-May	13	17
8	15-May	16	17
9	22-May	17	16
10	17-Jun	15	18
11	25-Jun	16	19
12	09-Jul	14	18
13	17-Jul	16	19
14	30-Jul	17	19

TSP10 Oxygen vs Carbon Dioxide Concentration (%) over time Bar Charts. Data presented within Table 5-5.



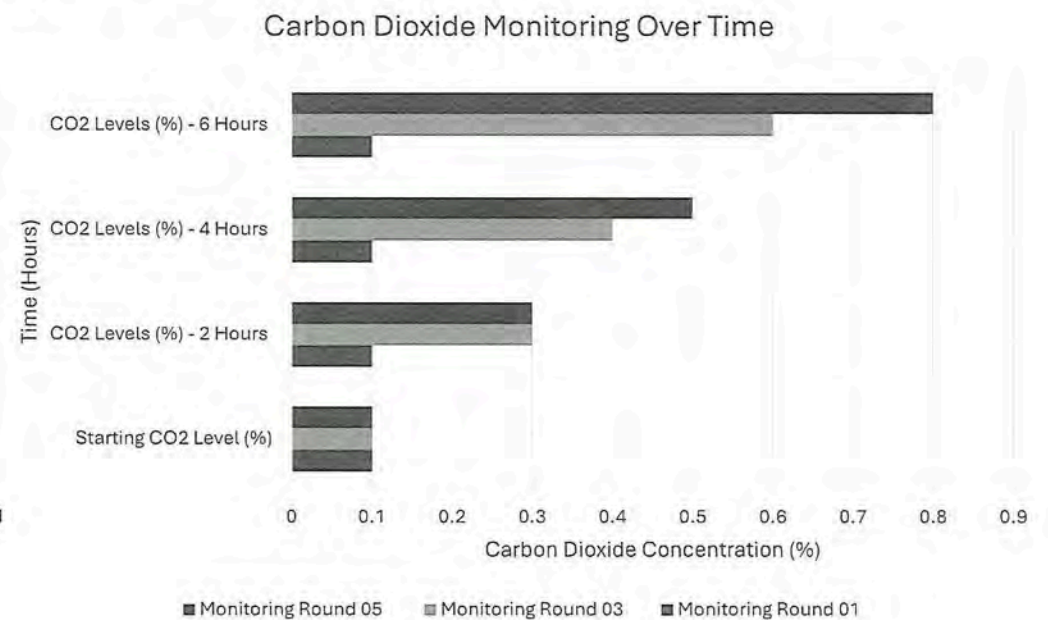
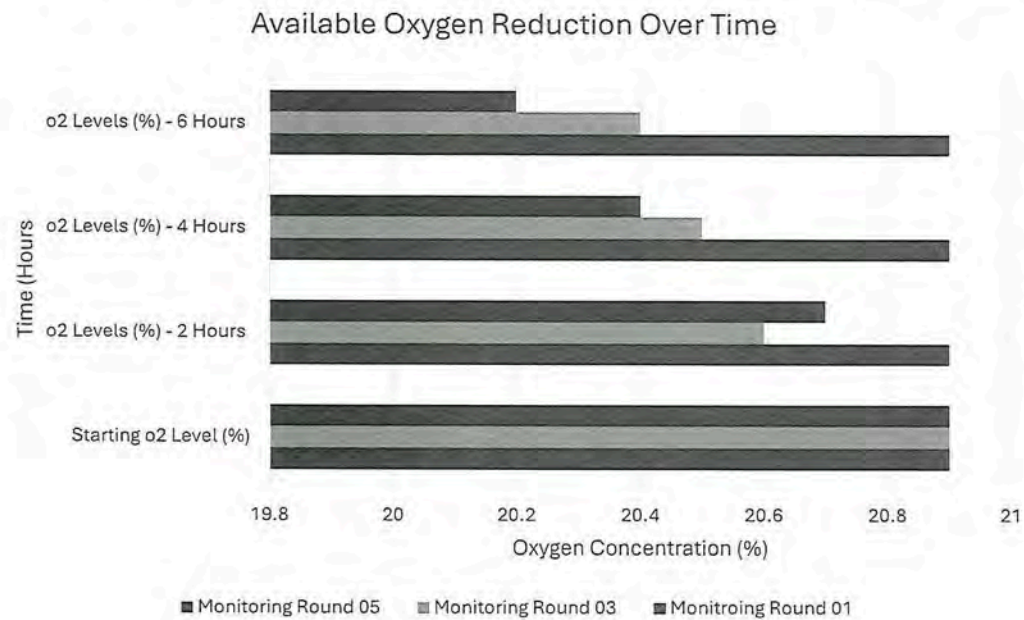
TSP10 External vs Internal Stockpile Temperatures

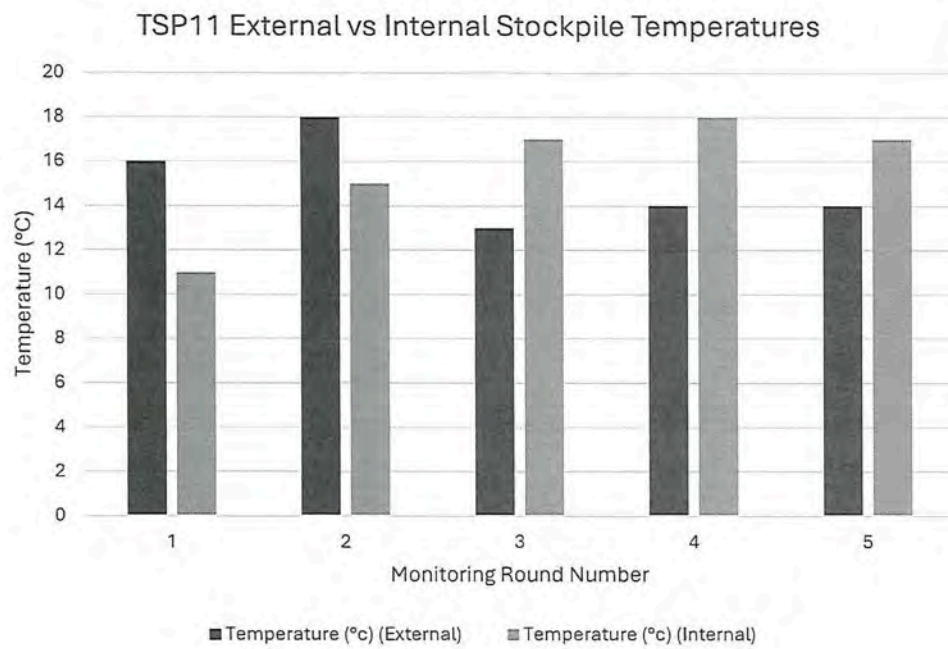


TSP10 Temperature Summary

Monitoring Round No	Date turned	Temperature (°c) (External)	Temperature (°c) (Internal)
1	15-May	16	8
2	22-May	17	13
3	18-Jun	15	16
4	09-Jul	14	18
5	17-Jul	16	19
6	30-Jul	17	19
7	13-Aug	18	18

TSP11 Oxygen vs Carbon Dioxide Concentration (%) over time Bar Charts. Data presented within Table 5-6.





TSP11 Temperature Summary			
Monitoring Round No	Date	Temperature (°c) (External)	Temperature (°c) (Internal)
1	12-Jun	16	11
2	18-Jun	18	15
3	25-Jun	13	17
4	02-Jul	14	18
5	09-Jul	14	17

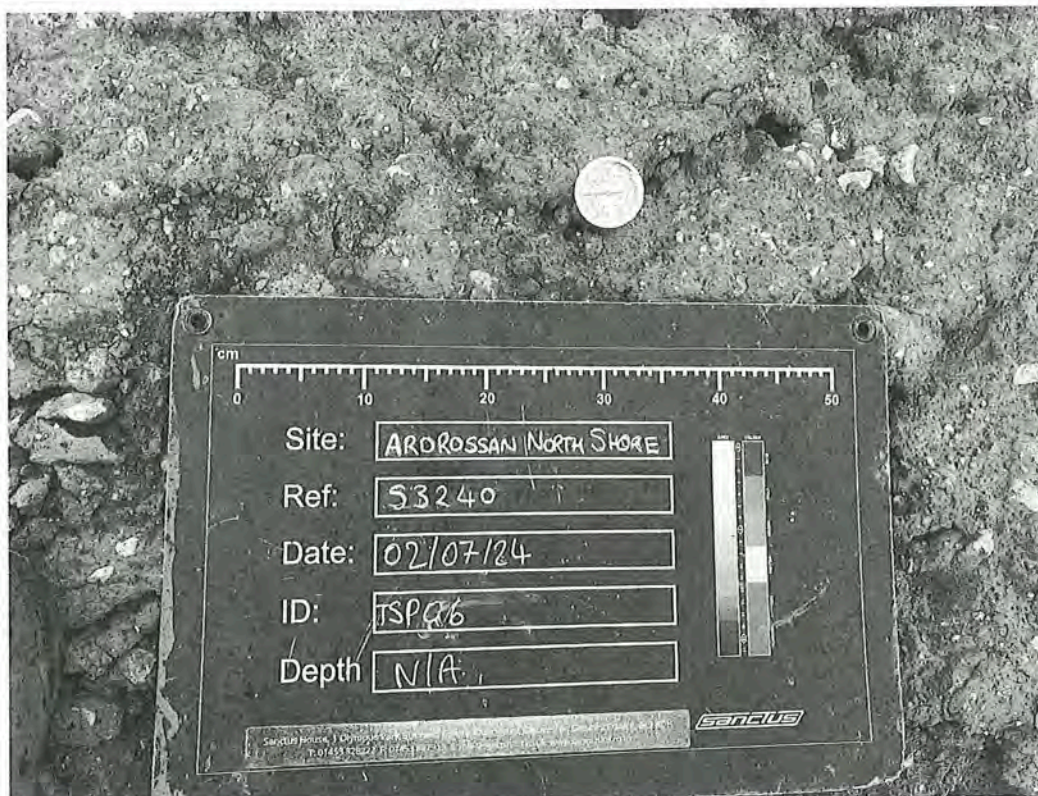


Plate No.: 1

Title: Example internal temperature monitoring with biotreated stockpiles.



Plate No.: 2

Title.: Example turning and Aeration of Biotreated stockpiles.

sanctus

Contract No.: S3240

Date: 17/10/2024

Contract Name: Ardrossan, North Shore



Plate No.: 3

Title.: Example turning and Aeration of Biotreated stockpiles.

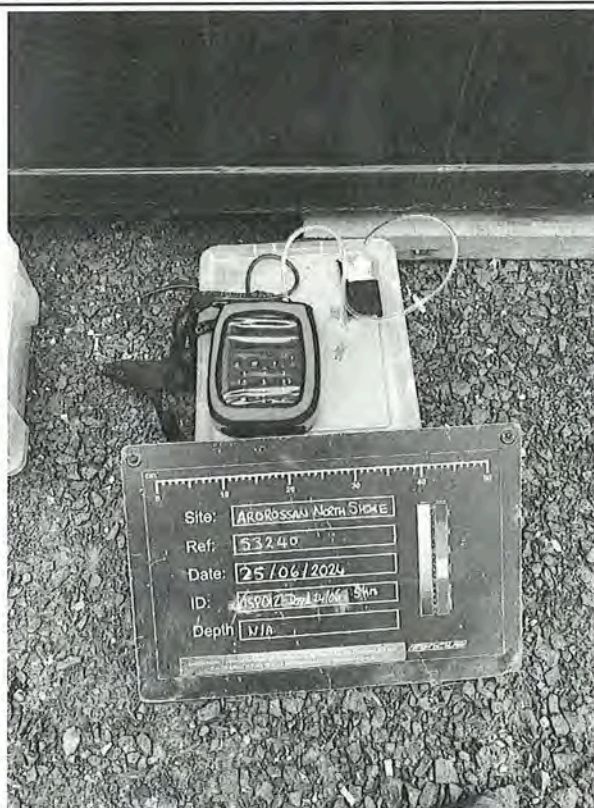


Plate No.: 4

Title.: Available Oxygen and Carbon Dioxide Monitoring of biotreated soils.



Contract No.: S3240

Date: 17/10/2024

Contract Name: Ardrossan, North Shore



Plate No.: 3

Title.: Example internal temperature monitoring with biotreated stockpiles.

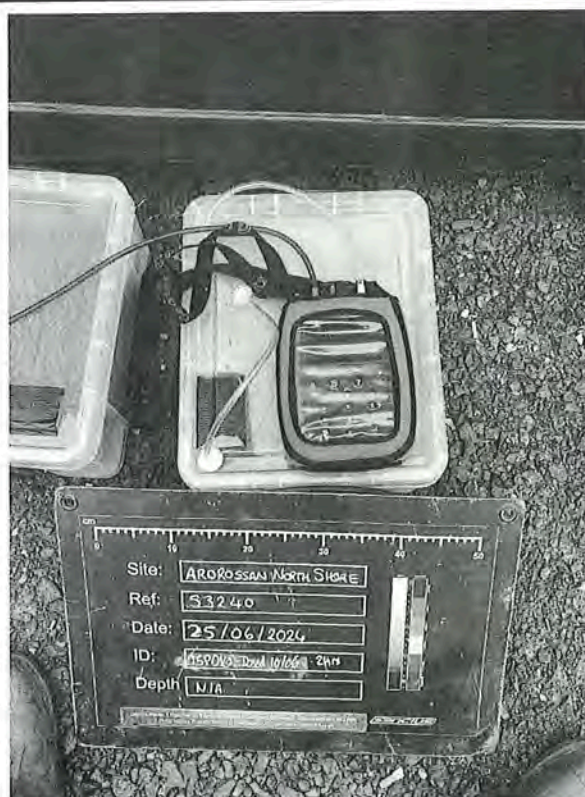


Plate No.: 4

Title.: Available Oxygen and Carbon Dioxide Monitoring of biotreated soils.

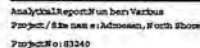
sanctus

Contract No.: S3240

Date: 17/10/2024

Contract Name: Ardrossan, North Shore

Appendix H Sanctus Stockpile Screening and Chemical Analysis

[illegible]



Analytical Report Number Various

Project / Site Name: Ashmore, North Shore

Project No: 03240

Sample Ref		1875176	1875171	1875172
Sample ID		SP078-04	SP078-05	SP078-06
Depth		N/A	N/A	N/A
Date Rec'd		25/09/2024	25/09/2024	25/09/2024

Reactive Substances Reference: Draw by D3240.673

Analytical Parameter (Soil Analysis)	Unit	Lab Reference				Total Area (µg/g)	Sum of Peak Concentrations	M.S. Value	M.S. Value	Average
None Detected	1	NONE	-	-	-	21	0	0.00	0.00	#5 M/D1
Maximum Concentration	1	NONE	7.6	7.2	8.3	25	0	0.00	14.60	10.28
Total Concentration (µg/g)	100	NONE	-	-	-	21	0	0	0	#01V/01

Asbestos

Asbestos in Digested Sample	Type	N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	-	-	-	-	-
Amphibole detected	Type	N/A	-	-	-	-	-	-	-	-
Chrysotile detected	Type	N/A	-	-	-	-	-	-	-	-
Anthropogenic detected	Type	N/A	-	-	-	-	-	-	-	-
Chrysotile detected	Type	N/A	-	-	-	-	-	-	-	-
Chrysotile detected	Type	N/A	-	-	-	-	-	-	-	-
Chrysotile detected	Type	N/A	-	-	-	-	-	-	-	-

Asbestos by hand picking	Yes	0.001	-	-	-	-	-	-	-	-
Asbestos by hand picking (µg/g)	Type	N/A	-	-	-	-	-	-	-	-

Petroleum Hydrocarbons

Aliphatic TPH <C6-C9	µg/g	0.02	0.05	0.05	0.05	25	0	0.05	0.05	0.05
Aliphatic TPH <C6-C9	µg/g	0.02	0.1	0.1	0.1	25	0	0.05	0.10	0.09
Aliphatic TPH <C6-C10	µg/g	0.05	0.05	0.05	0.05	25	0	0.05	0.11	0.06
Aliphatic TPH <C10-C12	µg/g	1	14	24	23	25	0	2.00	150.00	27.67
Aliphatic TPH <C13-C15	µg/g	2	39	62	60	25	0	1.00	510.00	106.46
Aliphatic TPH <C16-C18	µg/g	8	55	100	91	25	0	2.00	720.00	136.24
Aliphatic TPH <C19-C21	µg/g	8	53	20	20	25	0	1.00	300.00	58.47

Aliphatic TPH <C6-C7	µg/g	0.01	0.05	0.05	0.05	25	0	0.05	0.12	0.05
Aliphatic TPH <C6-C8	µg/g	0.01	0.05	0.05	0.05	25	0	0.05	0.09	0.05
Aliphatic TPH <C6-C10	µg/g	0.05	0.05	0.05	0.05	25	0	0.05	0.09	0.05
Aliphatic TPH <C10-C12	µg/g	1	19	27	22	25	0	1.00	70.00	17.23
Aliphatic TPH <C13-C16	µg/g	2	39	73	61	25	0	1.00	390.00	60.72
Aliphatic TPH <C16-C18	µg/g	10	30	58	58	25	1	5.00	1100.00	119.24
Aliphatic TPH <C19-C21	µg/g	10	2	4	2.8	25	0	2.00	770.00	62.36
Total Petroleum Hydrocarbons	µg/g	10	200	400	340	25	1	11.00	2400.00	628.80

Specified PAHs

Benzo[a]pyrene	µg/g	0.05	0.05	0.1	0.35	25	0	0.10	3.20	0.45
Benzo[a]anthracene	µg/g	0.05	0.1	0.1	0.1	25	0	0.10	0.10	0.10
Benzo[b]fluoranthene	µg/g	0.05	0.1	0.1	0.1	25	0	0.10	1.20	0.23
Fluorene	µg/g	0.05	0.1	0.1	0.1	25	0	0.10	0.20	0.10
Benzo[k]fluoranthene	µg/g	0.05	0.66	0.45	0.71	25	0	0.10	3.00	0.98
Anthracene	µg/g	0.05	0.14	0.14	0.2	25	0	0.10	1.40	0.24
Fluoranthene	µg/g	0.05	0.41	0.45	0.6	25	0	0.10	4.10	0.64
Pyrene	µg/g	0.05	0.42	0.47	0.68	25	0	0.10	3.20	0.60
Benzo[e]pyrene	µg/g	0.05	0.1	0.40	0.4	25	0	0.10	1.80	0.35
Chrysene	µg/g	0.05	0.1	0.44	0.45	25	0	0.10	1.80	0.36
Benzo[b]fluoranthene	µg/g	0.05	0.1	0.49	0.1	25	0	0.10	1.00	0.46
Benzo[k]fluoranthene	µg/g	0.05	0.1	0.19	0.1	25	0	0.10	0.61	0.18
Benzo[a]pyrene	µg/g	0.05	0.1	0.1	0.1	25	0	0.10	1.30	0.31
Benzo[a]anthracene	µg/g	0.05	0.1	0.1	0.1	25	0	0.10	0.50	0.28
Benzo[b]fluoranthene	µg/g	0.05	0.1	0.1	0.1	25	0	0.10	0.10	0.10
Benzo[a]pyrene	µg/g	0.05	0.1	0.1	0.1	25	0	0.10	1.60	0.31

Hexachloro and DDTs

Hexachloro	µg/g	1	1	1	1	25	0	1.00	1.00	1.00
DDT	µg/g	1	1	1	1	25	0	1.00	1.00	1.00
DDT	µg/g	1	1	1	1	25	0	1.00	1.00	1.00
DDT	µg/g	1	1	1	1	25	0	1.00	1.00	1.00



Final Report

Report No.: 24-30287-1

Initial Date of Issue: 25-Sep-2024

Re-Issue Details:

Client Sanctus Limited

Client Address:



Contact(s): Labs

Project S3240 Ardrossan North Shore

Quotation No.: Q24-35340

Date Received: 19-Sep-2024

Order No.: S3240

Date Instructed: 19-Sep-2024

No. of Samples: 2

Turnaround (Wkdays): 5

Results Due: 25-Sep-2024

Date Approved: 25-Sep-2024

Approved By:



Details: Technical Director



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

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				24-30287	24-30287
Quotation No.: Q24-35340		Chemtest Sample ID.:				1869055	1869056
Order No.: S3240		Client Sample Ref.:				SP	SP
		Client Sample ID.:				SP076-01	SP076-02
		Sample Location:				SP076	SP076
		Sample Type:				SOIL	SOIL
		Date Sampled:				17-Sep-2024	17-Sep-2024
		Asbestos Lab:				DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
ACM Type		U	2192		N/A	Fibres/Clumps	Fibres/Clumps
Asbestos Identification		U	2192		N/A	Amosite	Amosite
Asbestos by Gravimetry		U	2192	%	0.001	0.001	0.002
Total Asbestos		U	2192	%	0.001	0.001	0.002
Moisture		N	2030	%	0.020	12	10
Soil Colour		N	2040		N/A	Brown	Brown
Other Material		N	2040		N/A	Stones	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	11	72
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	45	420
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	15	540
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	41	250
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	260	11
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	110	1300
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	370	1300
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	79	51
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	390	84
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	1100	200
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	770	67
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	130	120
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	2300	400
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	2500	520
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	2500	1700
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	2800	1800
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				24-30287	24-30287
Quotation No.: Q24-35340		Chemtest Sample ID.:				1869055	1869056
Order No.: S3240		Client Sample Ref.:				SP	SP
		Client Sample ID.:				SP076-01	SP076-02
		Sample Location:				SP076	SP076
		Sample Type:				SOIL	SOIL
		Date Sampled:				17-Sep-2024	17-Sep-2024
		Asbestos Lab:				DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
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
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0	< 1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	0.32	< 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	0.35	< 0.10
Anthracene		M	2800	mg/kg	0.10	0.13	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	0.62	< 0.10
Pyrene		M	2800	mg/kg	0.10	0.57	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.25	< 0.10
Chrysene		M	2800	mg/kg	0.10	0.25	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	0.40	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	0.29	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.31	< 0.10
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	0.33	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	3.8	< 2.0

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2030	Moisture and Stone Content of Soils (Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description (Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
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
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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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Uncertainty of measurement for the determinands tested are available upon request.

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

All results are expressed on a dry weight basis.

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

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

All Asbestos testing is performed at the indicated laboratory.

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

Sample Deviation Codes

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

Sample Retention and Disposal

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

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

Charges may apply to extended sample storage.

Water Sample Category Key for Accreditation

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

Report Information

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

Clean Up Codes

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

HWOL Acronym System

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

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



2183

Final Report

Report No.: 24-31088-1
Initial Date of Issue: 30-Sep-2024

Re-Issue Details:

Client Sanctus Limited

Client Address:

Contact(s): Labs
Project S3240 Ardrossan North Shore

Quotation No.: Q24-35340

Date Received: 19-Sep-2024

Order No.:

Date Instructed: 26-Sep-2024

No. of Samples: 6

Turnaround (Wkdays): 5

Results Due: 02-Oct-2024

Date Approved: 30-Sep-2024

Approved By:

Details: Technical Director

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

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-31088	24-31088	24-31088	24-31088	24-31088	24-31088	24-31088
Quotation No.: Q24-35340		Chemtest Sample ID.:	1872373	1872374	1872375	1872376	1872377	1872378	1872378
Order No.:		Client Sample Ref.:	SP 1869055 Retest 1	SP 1869055 Retest 2	SP 1869055 Retest 3	SP 1869056 Retest 1	SP 1869056 Retest 2	SP 1869056 Retest 3	SP 1869056 Retest 3
		Client Sample ID.:	SP076-01	SP076-01	SP076-01	SP076-02	SP076-02	SP076-02	SP076-02
		Sample Location:	SP076	SP076	SP076	SP076	SP076	SP076	SP076
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Date Sampled:	17-Sep-2024	17-Sep-2024	17-Sep-2024	17-Sep-2024	17-Sep-2024	17-Sep-2024	17-Sep-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
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	U	2690	mg/kg	2.00	3.9	2.3	3.5	2.4
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	U	2690	mg/kg	1.00	20	10	25	26
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	U	2690	mg/kg	2.00	13	15	18	22
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	U	2690	mg/kg	3.00	4.4	7.4	7.7	9.8
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	U	2690	mg/kg	5.00	41	35	55	60
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	41	35	55	60
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	30	12	20	24
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	110	49	82	55
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	25	22	35	19
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	31	< 1.0	16	< 1.0
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	170	83	140	98
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	200	83	150	98
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	210	120	190	160
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	240	120	210	160

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	
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

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U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

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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

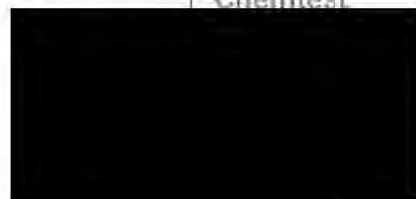
Clean Up Codes

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:
customerservices@chemtest.com



Amended Report

Report No.: 24-30696-2

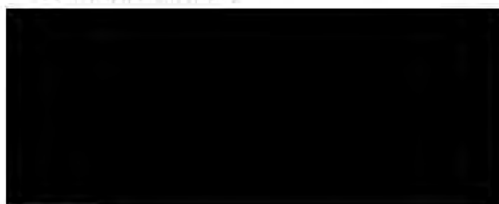
Initial Date of Issue: 26-Sep-2024

Date of Re-Issue: 07-Oct-2024

Re-Issue Details: This report has been revised and directly supersedes 24-30696-1 in its entirety

Client: Sanctus Limited

Client Address:



Contact(s): Labs

Project: S3240 Ardrossan North Shore

Quotation No.: Q24-35340

Date Received: 23-Sep-2024

Order No.: S3240

Date Instructed: 23-Sep-2024

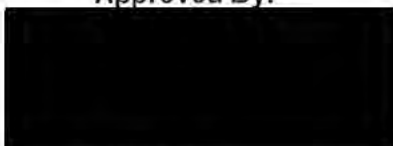
No. of Samples: 8

Turnaround (Wkdays): 5

Results Due: 27-Sep-2024

Date Approved: 26-Sep-2024

Approved By:



Details:  Technical Director

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

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-30696	24-30696	24-30696	24-30696
Quotation No.: Q24-35340		Chemtest Sample ID.:	1870757	1870758	1870759	1870760
Order No.: S3240		Client Sample Ref.:	SP077	SP077	SP077	SP077
		Client Sample ID.:	SP077-01	SP077-02	SP077-03	SP077-04
		Sample Location:	SP077	SP077	SP077	SP077
		Sample Type:	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0	0	0	0
		Bottom Depth (m):	0	0	0	0
		Date Sampled:	19-Sep-2024	19-Sep-2024	19-Sep-2024	19-Sep-2024
		Asbestos Lab:	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LDD	
ACM Type		U	2192		N/A	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected
Moisture		N	2030	%	0.020	12
Soil Colour		N	2040		N/A	Brown
Other Material		N	2040		N/A	Stones
Soil Texture		N	2040		N/A	Loam
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	4.8
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	< 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	17
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	< 3.0
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	< 5.0
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	4.7
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	34
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	5.9
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	< 2.0
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	< 1.0
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	5.9
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	110
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	11
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

Results - Soil

Project: S3240 Ardrossan North Shore

Project: S3240 Ardrossan North Shore						24-30696	24-30696	24-30696	24-30696
Client: Sanctus Limited		Chemtest Job No.:				24-30696	24-30696	24-30696	24-30696
Quotation No.: Q24-35340		Chemtest Sample ID.:				1870757	1870758	1870759	1870760
Order No.: S3240		Client Sample Ref.:				SP077	SP077	SP077	SP077
		Client Sample ID.:				SP077-01	SP077-02	SP077-03	SP077-04
		Sample Location:				SP077	SP077	SP077	SP077
		Sample Type:				SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0	0	0	0
		Bottom Depth (m):				0	0	0	0
		Date Sampled:				19-Sep-2024	19-Sep-2024	19-Sep-2024	19-Sep-2024
		Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
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
Methyl Tert-Butyl Ether		M	2760	µg/kg	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
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	0.22	< 0.10	< 0.10	0.21
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	0.25	0.25	0.30	0.36
Pyrene		M	2800	mg/kg	0.10	0.27	0.27	0.25	0.38
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
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
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>	"greater than"
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LOD	Limit of detection

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

All results are expressed on a dry weight basis.

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

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

All Asbestos testing is performed at the indicated laboratory .

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

Sample Deviation Codes

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

Sample Retention and Disposal

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

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

Charges may apply to extended sample storage.

Water Sample Category Key for Accreditation

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

Report Information

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

Clean Up Codes

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

HWOL Acronym System

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

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



Amended Report

Report No.: 24-30696-2

Initial Date of Issue: 26-Sep-2024 Date of Re-Issue: 07-Oct-2024

Re-Issue Details: This report has been revised and directly supersedes 24-30696-1 in its entirety

Client: Sanctus Limited

Client Address: [REDACTED]

Contact(s): Labs

Project: S3240 Ardrossan North Shore

Quotation No.: Q24-35340 Date Received: 23-Sep-2024

Order No.: S3240 Date Instructed: 23-Sep-2024

No. of Samples: 8

Turnaround (Wkdays): 5 Results Due: 27-Sep-2024

Date Approved: 26-Sep-2024

Approved By: [REDACTED]

Details: [REDACTED] Technical Director

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

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				24-30696	24-30696	24-30696	24-30696
Quotation No.: Q24-35340		Chemtest Sample ID.:				1870761	1870762	1870763	1870764
Order No.: S3240		Client Sample Ref.:				SP077	SP077	SP077	SP077
		Client Sample ID.:				SP077-05	SP077-06	SP077-07	SP077-08
		Sample Location:				SP077	SP077	SP077	SP077
		Sample Type:				SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0	0	0	0
		Bottom Depth (m):				0	0	0	0
		Date Sampled:				19-Sep-2024	19-Sep-2024	19-Sep-2024	19-Sep-2024
		Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
ACM Type		U	2192		N/A	Fibres/Clumps	Fibres/Clumps	Fibres/Clumps	Fibres/Clumps
Asbestos Identification		U	2192		N/A	Chrysotile	Amosite	Chrysotile	Amosite Chrysotile
Asbestos by Gravimetry		U	2192	%	0.001	<0.001	<0.001	<0.001	0.003
Total Asbestos		U	2192	%	0.001	<0.001	<0.001	<0.001	0.003
Moisture		N	2030	%	0.020	8.8	12	11	12
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	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
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	0.11	0.13	0.12	< 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	150	58	64	100
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	510	290	250	430
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	720	330	260	560
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	300	110	120	210
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	1700	790	690	1300
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	1700	790	690	1300
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	39	33	29	43
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	200	91	74	160
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	230	140	110	200
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	110	71	44	120
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	120	58	27	97
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	570	330	260	520
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	700	390	280	610
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	2200	1100	940	1800
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	2400	1200	970	1900

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:				24-30696	24-30696	24-30696	24-30696
Quotation No.: Q24-35340		Chemtest Sample ID.:				1870761	1870762	1870763	1870764
Order No.: S3240		Client Sample Ref.:				SP077	SP077	SP077	SP077
		Client Sample ID.:				SP077-05	SP077-06	SP077-07	SP077-08
		Sample Location:				SP077	SP077	SP077	SP077
		Sample Type:				SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0	0	0	0
		Bottom Depth (m):				0	0	0	0
		Date Sampled:				19-Sep-2024	19-Sep-2024	19-Sep-2024	19-Sep-2024
		Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
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
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	0.65	0.98	3.2	1.1
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	0.34	0.67	1.7
Fluorene		M	2800	mg/kg	0.10	< 0.10	0.23	0.48	0.78
Phenanthrene		M	2800	mg/kg	0.10	0.67	0.62	1.3	3.7
Anthracene		M	2800	mg/kg	0.10	0.24	0.50	0.65	1.4
Fluoranthene		M	2800	mg/kg	0.10	1.1	1.7	2.4	4.1
Pyrene		M	2800	mg/kg	0.10	1.2	1.6	2.4	3.3
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.59	0.69	0.93	1.4
Chrysene		M	2800	mg/kg	0.10	0.65	0.77	0.95	1.4
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	0.84	1.0	1.4	1.7
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.28	0.35	0.41	0.61
Benzo[a]pyrene		M	2800	mg/kg	0.10	0.69	0.68	1.2	1.3
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.49	0.58	0.71	0.95
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.66	0.64	0.91	1.0
Total Of 16 PAH's		N	2800	mg/kg	2.0	8.1	11	18	24

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	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
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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TS - Treated Sewage
UL - Unspecified Liquid

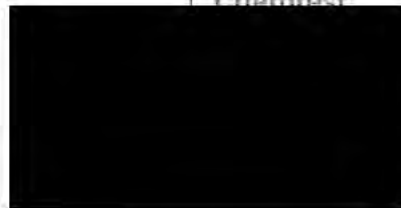
Clean Up Codes

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.: 24-31866-1

Initial Date of Issue: 07-Oct-2024

Re-Issue Details:

Client Sanctus Limited

Client Address:



Contact(s): Labs

Project S3240 Ardrossan North Shore

Quotation No.: Q24-35340

Date Received: 02-Oct-2024

Order No.: S3240

Date Instructed: 02-Oct-2024

No. of Samples: 6

Turnaround (Wkdays): 4

Results Due: 07-Oct-2024

Date Approved: 07-Oct-2024

Approved By:



Details:  Technical Director

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

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-31866	24-31866	24-31866	24-31866	24-31866	24-31866	24-31866
Quotation No.: Q24-35340		Chemtest Sample ID.:	1875167	1875168	1875169	1875170	1875171	1875172	
Order No.: S3240		Client Sample Ref.:	SP078	SP078	SP078	SP078	SP078	SP078	SP078
		Client Sample ID.:	SP078-01	SP078-02	SP078-03	SP078-04	SP078-05	SP078-06	
		Sample Location:	SP078	SP078	SP078	SP078	SP078	SP078	SP078
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0	0	0	0	0	0	0
		Bottom Depth (m):	0	0	0	0	0	0	0
		Date Sampled:	25-Sep-2024	25-Sep-2024	25-Sep-2024	25-Sep-2024	25-Sep-2024	25-Sep-2024	25-Sep-2024
		Asbestos Lab:	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
ACM Type		U	2192		N/A	-	-	-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020	6.9	6.9	7.4	7.6
Soil Colour		N	2040		N/A	Grey	Grey	Grey	Grey
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	31	19	15	14
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	46	57	66	39
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	55	100	92	55
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	7.1	21	15	5.3
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	140	200	190	110
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	140	200	190	110
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	23	24	16	19
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	37	56	33	39
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	20	53	33	30
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0	< 2.0
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	80	130	82	88
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	80	130	82	88
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	220	330	270	200
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	220	330	270	200
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

Results - Soil

Project: S3240 Ardrossan North Shore

Client: Sanctus Limited		Chemtest Job No.:	24-31866	24-31866	24-31866	24-31866	24-31866	24-31866	24-31866
Quotation No.: Q24-35340		Chemtest Sample ID.:	1875167	1875168	1875169	1875170	1875171	1875172	1875172
Order No.: S3240		Client Sample Ref.:	SP078	SP078	SP078	SP078	SP078	SP078	SP078
		Client Sample ID.:	SP078-01	SP078-02	SP078-03	SP078-04	SP078-05	SP078-06	SP078-06
		Sample Location:	SP078	SP078	SP078	SP078	SP078	SP078	SP078
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0	0	0	0	0	0	0
		Bottom Depth (m):	0	0	0	0	0	0	0
		Date Sampled:	25-Sep-2024	25-Sep-2024	25-Sep-2024	25-Sep-2024	25-Sep-2024	25-Sep-2024	25-Sep-2024
		Asbestos Lab:	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
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
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.28	< 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	0.49	< 0.10	0.45	0.71
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.14	0.20
Fluoranthene		M	2800	mg/kg	0.10	0.31	0.38	0.29	0.60
Pyrene		M	2800	mg/kg	0.10	0.32	0.41	0.33	0.68
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.40
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.45
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0	< 2.0	2.2	3.4

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	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
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

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#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

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