



Appendix H VENM Documentation



EnviroProtect (Vic) Pty Ltd

A.B.N. 39 079 041 366

Environmental Scientists

**REPORT ON
OFFSITE DISPOSAL CLASSIFICATION
(EV2355)**

FOR

N. MOIT AND SONS (NSW) PTY LTD

AT

5 Uhrig Road, Lidcombe, NSW

APRIL 2018

ENVIROPROTECT (VIC) PTY LTD

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1. Introduction

EnviroProtect (Vic) Pty Ltd was engaged by N. Moit and Sons (NSW) Pty Ltd ("Client") to conduct soil sampling program at 5 Uhrig Road, Lidcombe, NSW for the purpose of characterising in-situ soils on site. The soil sampling program was conducted on Wednesday 12th April 2018.

The objective of this sampling program was to provide N. Moit and Sons (NSW) Pty Ltd with an assessment if natural in-situ undisturbed soil material would meet the definition of Virgin Excavated Natural Material (VENM) that can be reused offsite. Please refer attached sampling location plan for location of in-situ soils and sampling location.

2. Assessment criteria

To classify natural soils as Virgin Excavated Natural Material (VENM) they must meet the following definition (Protection of the Environment Operations Act 1997 (POEO Act)):

"Virgin excavated natural material means natural material (such as clay, gravel, sand, soil or rock fines):

- that has been excavated or quarried from areas that are not contaminated with manufactured chemicals, or with process residues, as a result of industrial, commercial, mining or agricultural activities*
- that does not contain sulfidic ores or soils, or any other waste,*

and includes excavated natural material that meets such criteria for virgin excavated natural material as may be approved from time to time by a notice published in the NSW Government Gazette".

By definition, VENM cannot be 'made' from processed soils. According to the New South Wales Environment protection Authority (EPA), Waste Classification Guidelines – Part 1: Classification of waste (2014), VENM is a waste that has been pre-classified as general solid waste (non-putrescible).

For this site, a combination of chemical characterization, site history and observations were used to support a VENM classification.

3. Site History

Site history information was obtained from the WSP report "Phase 2 Environmental and Geotechnical Assessment, 5 Uhrig Road, Lidcombe, NSW" (WSP, 2016). The site has a total area of approx. 39,000 m² and the latest land uses comprised of commercial premises including a large warehouse building, a multi-storey office building, an above ground carpark (north of the Site), an underground carpark, (south along Uhrig Road), internal sealed roads, a truck wash bay, waste bin and pallet storage and plant and vehicle parking areas.

Searches of publically available online data bases did not reveal any outstanding notices pertaining to the site from a contamination perspective. The Site was redeveloped between 2005 and 2007 and warehousing has been conducted at the Site since that time. A site inspection conducted during the Phase 2 Environmental and Geotechnical Investigation and the findings of the previous investigations considered the potential risks from contamination to human health and the environment to be low and as such, no remediation action plan (RAP) was required. The final conclusion was that the Site is suitable for the proposed redevelopment under a "high density residential" (Residential-B) land use setting.

4. Soil sampling Methodology

A total of eleven (11) soil samples were collected from the in-situ soils on site. Soils were sampled using mechanical excavator and hand tools. Soil samples were placed in glass jars and sealed with a screw cap lid. Following collection, the samples were stored on ice, prior to being forwarded to a NATA Registered Laboratory for analysis. Please refer to attached sampling location map to identify the locations of the soil sampling.

5. Soil Investigation

The 1:100,000 Sydney Geological Sheet indicates the site locality is underlain by Ashfield Shale of the Wianamatta Group (Figure 1), which typically comprises shale and laminite, and weathers to form medium and high plasticity residual clays.

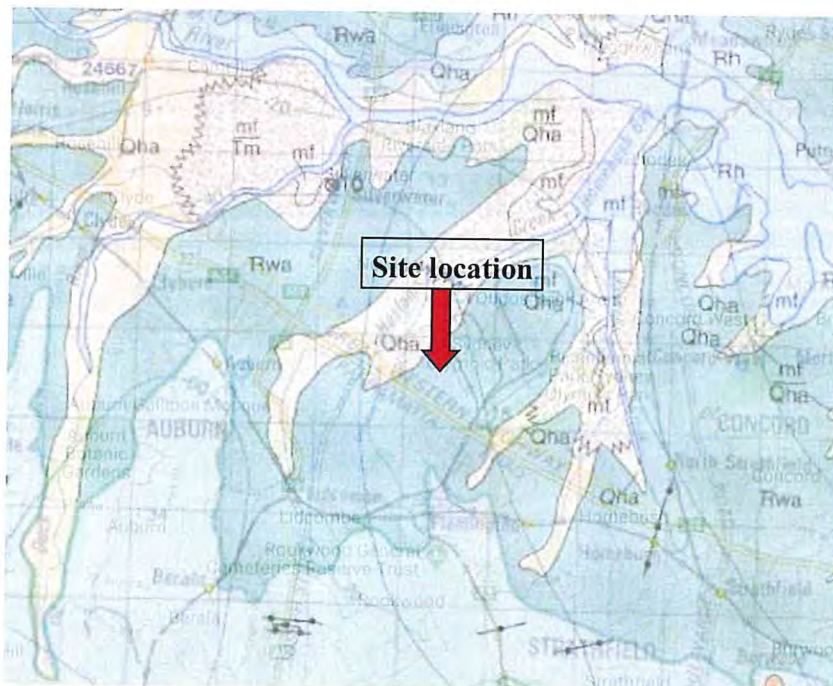


Figure 1 – Site location on Sydney Geological Map (1983)

The 1:250,000 Botany Bay Acid Sulfate Soil Risk Map indicates that the site is located in an area of no known occurrence of acid sulfate soils (ASS).

Soil samples were collected in an approx. gridded pattern to represent natural material on site (deeper than 2 m BGL - below ground level). Soils encountered during the sampling program mainly comprise of pale grey – dark grey weathered siltstone with minor sand, mottled red-brown (iron staining). Deeper natural material comprises of natural rock (shale with some sandstone laminations).

A total of eleven (11) soil samples were collected from representative locations across areas where excavation / works are planned for offsite disposal purposes. Bore hole locations were allocated in an approximate grid pattern locations to represent the soils proposed for excavation.

Please refer to the attached sampling locations plan to identify the approximate locations of the samples.

6. Laboratory Analysis

Samples collected were dispatched and analysed by a NATA accredited laboratory MGT-Eurofins. Based on field observations, soil samples were analysed for Soil Full Screen and contaminants of potential concern. Laboratory soil analysis results for soil sampling conducted are presented in Tables 1, 2 and 3 in Appendix.

7. Discussion of Results:

The classification of the soils was conducted in general accordance with the procedures for classifying waste in EPA-NSW (2014). According to the waste classification procedure:

STEP 1: The material is not considered to be Special Waste. No apparent visual evidence of potential asbestos containing materials was observed in the samples collected, neither other special wastes as tyres, clinical waste, etc.

STEP 2: The in-situ soils are not considered to be a *liquid waste*.

STEP 3: This material is considered to be pre-classified as General Solid Waste (non-putrescible), as the material is considered to be virgin excavated natural material (VENM), based on:

- The material does not appear to have been contaminated with manufactured chemicals, or with process residues, as a result of industrial, commercial, mining or agricultural activities; and
- The material does not contain sulfidic ores or soils, or any other wastes.

STEP 4: The material is not considered to possess hazardous characteristics.

STEP 5: The in-situ soils have been sampled and assessed by chemical analysis. The laboratory analysis results for all eleven (11) soil samples collected (EV2355-1, -2, -3, -4, -5, -6, -7, -8, -9, -10 and 11) recorded all concentrations at levels below the contaminant threshold (CT1) values specified in Table 1 of the Waste Classification Guidelines – Part 1: Classifying waste of New South Wales Environment protection Authority (EPA), with the exception of Nickel analysis in 3 samples (EV2355-2, -3 and -4).

A toxicity characteristics leaching procedure (TCLP) test was carried out for the highest reported concentration of Nickel (soil sample EV2355-3). The laboratory analysis result recorded concentration at level below the laboratory detection limit (<0.05 mg/L) and, therefore, below the TCLP1 value specified in Table 2 of the Waste Classification Guidelines – Part 1: Classifying waste of New South Wales Environment protection Authority (EPA).

Statistical analysis of the eleven (11) soil samples for nickel using 95% UCL calculation resulted in a UCL of 39.4 mg/kg, below the CT1 value for nickel (40 mg/kg). Please see the 95% UCL Statistical Analysis in Appendix.

Furthermore, these elevated concentrations of nickel however, can be attributed to naturally elevated nickel concentrations within the natural material. Consideration of background concentrations are required as part of assessing if soils meet the definition of VENM. The background nickel concentration published by South Australian Health Commission (1995) for new suburbs and low traffic areas ranges from 5 to 50 mg/kg. This background concentration provides a general reference for expected nickel in natural soils.

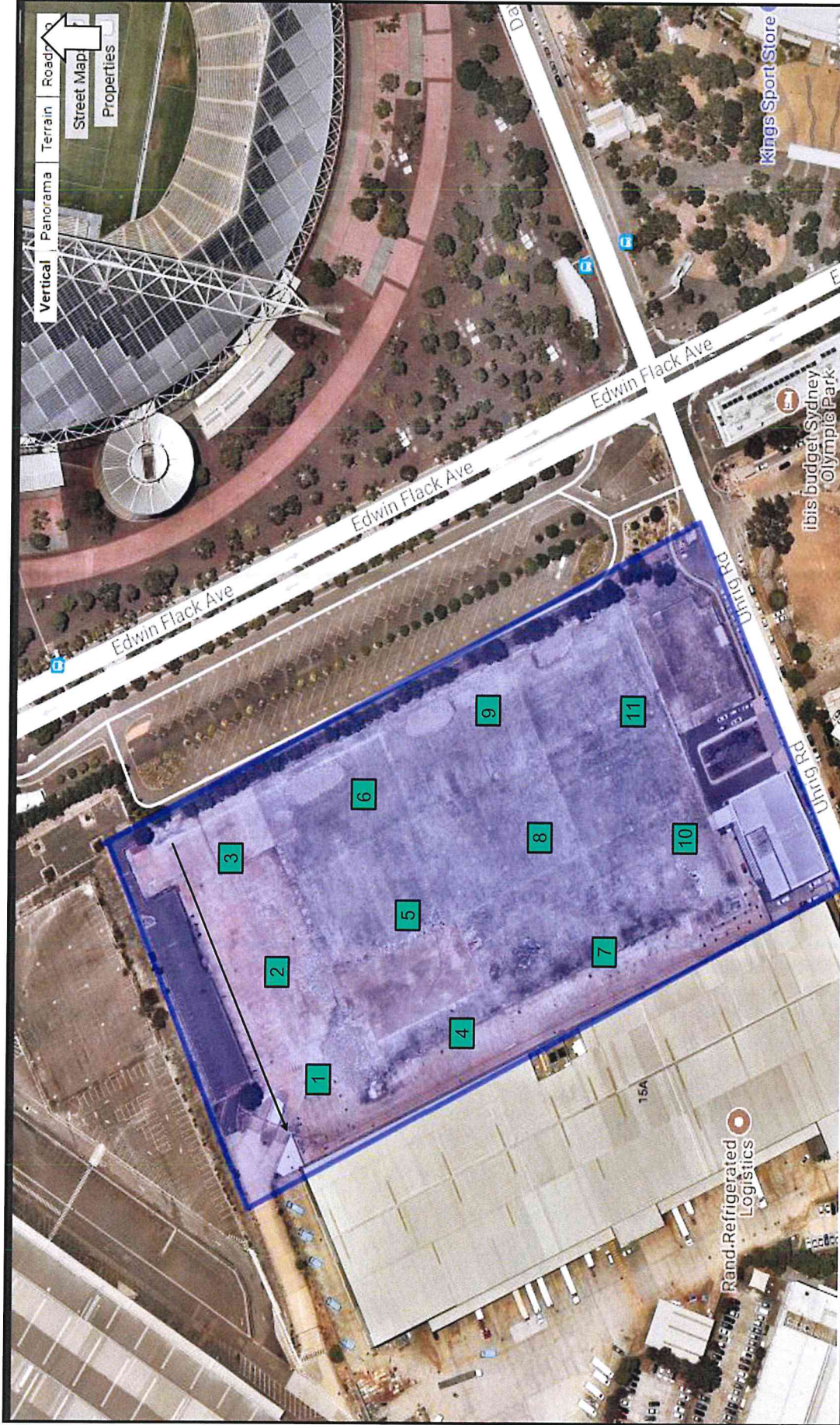
STEP 6: The material is composed of soils. Based on EnviroProtect field observations, the material is considered to be non-putrescible.

Therefore, these soils are classified as virgin excavated natural material (VENM).

8. CONCLUSION

Based on the analytical results, geological conditions and observations made on site, natural in-situ soils on site as per attached sample location, are categorised as **virgin excavated natural material (VENM)** for off-site disposal in accordance with EPA-NSW regulations.

SAMPLING LOCATIONS



Client: N. Moit and Sons (NSW) Pty Ltd	Project / Location: 5 Uhrig Road, Lidcombe, NSW	Drawing Title : Sampling Locations EV2355
1 Sampling Locations – Test pits Site boundary		
EnviroProtect (Vic) Pty Ltd EP Environmental Scientists A.B.N. 39 079 041 366		

ANALYTICAL RESULTS TABLES

ANALYTICAL RESULTS

Table 1 – Analytical Results for inorganic constituents (Fluoride, Cyanide & Heavy Metals)

Sample No.	Sampling date	pH	Fluoride	Cyanide	Arsenic (As)	Cadmium (Cd)	Silver (Ag)	Chromium	Chromium (VI)	Copper (Cu)	Mercury (Hg)	Molybdenum (Mo)	Nickel (Ni)	Lead (Pb)	Selenium (Se)	Zinc (Zn)
EV2355-1	11/04/18	5.4			3	<0.4		<5		33	<0.1		6.9	10		30
EV2355-2	11/04/18	7.3			24	0.6		6.3		25	<0.1		48	13		130
EV2355-3	11/04/18	7.6			25	0.7		6.8		32	<0.1		54	22		160
EV2355-4	11/04/18	7.6	260	<10	14	0.4	<0.2	6		27	<0.1	<5	49	17	<2	130
EV2355-5	11/04/18	7.4			16	0.5		6.1		31	<0.1		40	21		150
EV2355-6	11/04/18	5.9			2.2	<0.4		<5		28	<0.1		5.4	12		26
EV2355-7	11/04/18	7.2			11	<0.4		<5		21	<0.1		31	13		110
EV2355-8	11/04/18	5.8	110	<1	6.2	<0.4	<0.2	5.5		60	<0.1	<5	31	28	4.8	120
EV2355-9	11/04/18	5.7			8.1	<0.4		5.1		47	<0.1		40	62		120
EV2355-10	11/04/18	5.3			4.3	<0.4		<5		29	<0.1		5.3	10		23
EV2355-11	11/04/18	6.1			<2	<0.4		<5		16	<0.1		<5	12		9.8
NSW 2014 General Solid Waste (without TCLP)		NA	3,000	320	100	20	100	NA	100	NA	4	100	40	100	20	NA
NSW 2014 Restricted Solid Waste (without TCLP)		NA	12,000	1,280	400	80	400	NA	400	NA	16	400	160	400	80	NA
NSW 2014 General Solid Waste (with TCLP)		NA	10,000	5,900	500	100	180	NA	1,900	NA	50	1,000	1,050	1,500	50	NA
NSW 2014 Restricted Solid Waste (with TCLP)		NA	40,000	23,600	2,000	400	720	NA	7,600	NA	200	4,000	4,200	6,000	200	NA

All results are expressed in mg/Kg

Table 2 – Analytical Results for organic soil contaminants (TPH, MAH & PAH)

Sample No	Sampling date	MAH				PAH		TPH				
		Benzene	Toluene	Ethylbenzene	Xylenes	Total	Total*	Benzo(a) Pyrene	C ₉ – C ₉	C ₁₀ -C ₁₄	C ₁₅ -C ₂₈	C ₂₉ -C ₃₅
EV2355-1	11/04/18						<0.5	<0.5				
EV2355-2	11/04/18	<0.1	<0.1	<0.1	<0.3	<0.3	<0.5	<0.5	<20	<20	<50	<50
EV2355-3	11/04/18						<0.5	<0.5				
EV2355-4	11/04/18	<0.1	<0.1	<0.1	<0.3	<0.5	<0.5	<0.5	<20	<20	<50	<50
EV2355-5	11/04/18						<0.5	<0.5				
EV2355-6	11/04/18						<0.5	<0.5				
EV2355-7	11/04/18						<0.5	<0.5				
EV2355-8	11/04/18	<0.1	<0.1	<0.1	<0.3	<0.5	<0.5	<0.5	<20	<20	<50	<50
EV2355-9	11/04/18	<0.1	<0.1	<0.1	<0.3	<0.3	<0.5	<0.5	<20	<20	<50	<50
EV2355-10	11/04/18						<0.5	<0.5				
EV2355-11	11/04/18						<0.5	<0.5				
NSW 2014 General Solid Waste (without TCLP)		10	288	600	1,000	NA	200	0.8	650		10,000	
NSW 2014 Restricted Solid Waste (without TCLP)		40	1,152	2,400	4,000	NA	800	3.2	2,600		40,000	
NSW 2014 General Solid Waste (with TCLP)		18	518	1,080	1,800	NA	200	10	650		10,000	
NSW 2014 Restricted Solid Waste (with TCLP)		72	2,073	4,320	7,200	NA	800	23	2,600		40,000	

All results are expressed in mg/Kg

All results are expressed in mg/Kg

KEY		
▲	Soil containing PCBs must be managed in accordance with the EPA's polychlorinated biphenyl (PCB) chemical control order 1997...	Analytical results, which are shaded yellow exceed Restricted Solid Waste threshold (without TCLP) shown in Table 1 of EPA-NSW (2014).
■	Analytical results, which are shaded green exceed General Solid Waste threshold (without TCLP) shown in Table 1 of EPA-NSW (2014).	Analytical results, which are shaded orange exceed General Solid Waste threshold (with TCLP) shown in Table 2 of EPA-NSW (2014).
*	Total refers to the sum of 16 USEPA Priority Pollutant PAHs.	Analytical results, which are shaded red exceed Restricted Solid Waste threshold (with TCLP) shown in Table 2 of EPA-NSW (2014).

13/04/2018

ANALYTICAL RESULTS**Table 3: Analytical Results for organic constituents (OCPs, PCBs, chlorinated hydrocarbons & Phenols)**

Sample No. (Sample depths)	Sampling date	Dieldrin + Aldrin*	DDT + DDD + DDE*	Chlordane	Heptachlor	Total OCPs*	Total Other OCP's	Total PCBs	Phenols (Halogenated)*	Phenols (NonHalogenated)*	Vinyl chloride	Total* Chlorinated Hydrocarbons	Total other Chlorinated Hydrocarbons
EV2355-1	11/04/18												
EV2355-2	11/04/18												
EV2355-3	11/04/18												
EV2355-4	11/04/18	< 0.05	< 0.05	< 0.1	< 0.05	< 0.1	< 0.1	< 0.5	< 1	< 20	< 0.5	< 0.5	< 0.5
EV2355-5	11/04/18												
EV2355-6	11/04/18												
EV2355-7	11/04/18												
EV2355-8	11/04/18	< 0.05	< 0.05	< 0.1	< 0.05	< 0.1	< 0.1	< 0.5	< 1	< 20	< 0.5	< 0.5	< 0.5
EV2355-9	11/04/18												
EV2355-10	11/04/18												
EV2355-11	11/04/18												
NSW 2014 General Solid Waste (without TCLP)		NA	NA	NA	NA	NA	NA	<50	NA	288	4	NA	NA
NSW 2014 Restricted Solid Waste (without TCLP)		NA	NA	NA	NA	NA	NA	<50	NA	1,152	16	NA	NA
NSW 2014 General Solid Waste (with TCLP)		NA	NA	NA	NA	NA	NA	<50	NA	518	7.2	NA	NA
NSW 2014 Restricted Solid Waste (with TCLP)		NA	NA	NA	NA	NA	NA	<50	NA	2,073	28.8	NA	NA

All results are expressed in mg/kg

KEY		
▲	Soil containing PCBs must be managed in accordance with the EPA's polychlorinated biphenyl (PCB) chemical control order 1997.	Analytical results, which are shaded yellow exceed Restricted Solid Waste threshold (without TCLP) shown in Table 1 of EPA-NSW (2014).
	Analytical results, which are shaded green exceed General Solid Waste threshold (without TCLP) shown in Table 1 of EPA-NSW (2014).	Analytical results, which are shaded orange exceed General Solid Waste threshold (with TCLP) shown in Table 2 of EPA-NSW (2014).
*	Total refers to the sum of 16 USEPA Priority Pollutant PAHs.	Analytical results, which are shaded red exceed Restricted Solid Waste threshold (with TCLP) shown in Table 2 of EPA-NSW (2014).

**ANALYTICAL REPORT AND
CHAIN OF CUSTODY**

Certificate of Analysis

EnviroProtect (VIC) Pty Ltd
 298 Kororoit Creek Rd
 Williamstown
 VIC 3016



NATA Accredited
 Accreditation Number 1261
 Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
 The results of the tests, calibrations and/or
 measurements included in this document are traceable
 to Australian/national standards.

Attention: -Alex Sepulveda

Report 593363-S-V2
 Project name 5 UHRIG ROAD LIDCOMBE NSW
 Project ID EV2355
 Received Date Apr 11, 2018

Client Sample ID			EV2355-1	EV2355-2	EV2355-3	EV2355-4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			S18-Ap10566	S18-Ap10567	S18-Ap10568	S18-Ap10569
Date Sampled			Apr 11, 2018	Apr 11, 2018	Apr 11, 2018	Apr 11, 2018
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	< 20	-	< 20
TRH C10-C14	20	mg/kg	-	< 20	-	< 20
TRH C15-C28	50	mg/kg	-	< 50	-	< 50
TRH C29-C36	50	mg/kg	-	< 50	-	< 50
TRH C10-36 (Total)	50	mg/kg	-	< 50	-	< 50
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Xylenes - Total	0.3	mg/kg	-	< 0.3	-	-
4-Bromofluorobenzene (surr.)	1	%	-	75	-	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	-	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	-	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	-	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	-	< 0.5
Allyl chloride	0.5	mg/kg	-	-	-	< 0.5

Client Sample ID			EV2355-1	EV2355-2	EV2355-3	EV2355-4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			S18-Ap10566	S18-Ap10567	S18-Ap10568	S18-Ap10569
Date Sampled			Apr 11, 2018	Apr 11, 2018	Apr 11, 2018	Apr 11, 2018
Test/Reference	LOR	Unit				
Volatile Organics						
Benzene	0.1	mg/kg	-	-	-	< 0.1
Bromobenzene	0.5	mg/kg	-	-	-	< 0.5
Bromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromodichloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromoform	0.5	mg/kg	-	-	-	< 0.5
Bromomethane	0.5	mg/kg	-	-	-	< 0.5
Carbon disulfide	0.5	mg/kg	-	-	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	-	-	< 0.5
Chlorobenzene	0.5	mg/kg	-	-	-	< 0.5
Chloroethane	0.5	mg/kg	-	-	-	< 0.5
Chloroform	0.5	mg/kg	-	-	-	< 0.5
Chloromethane	0.5	mg/kg	-	-	-	< 0.5
cis-1,2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
cis-1,3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Dibromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Dibromomethane	0.5	mg/kg	-	-	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	-	-	< 0.5
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
Iodomethane	0.5	mg/kg	-	-	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	-	< 0.5
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
Methylene Chloride	0.5	mg/kg	-	-	-	< 0.5
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Styrene	0.5	mg/kg	-	-	-	< 0.5
Tetrachloroethene	0.5	mg/kg	-	-	-	< 0.5
Toluene	0.1	mg/kg	-	-	-	< 0.1
trans-1,2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
trans-1,3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Trichloroethene	0.5	mg/kg	-	-	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	-	-	< 0.5
Vinyl chloride	0.5	mg/kg	-	-	-	< 0.5
Xylenes - Total	0.3	mg/kg	-	-	-	< 0.3
Total MAH*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	-	-	58
Toluene-d8 (surr.)	1	%	-	-	-	54
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	-	< 0.5	-	< 0.5
TRH C6-C10	20	mg/kg	-	< 20	-	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	< 20	-	< 20
TRH >C10-C16	50	mg/kg	-	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	< 50	-	< 50
TRH >C16-C34	100	mg/kg	-	< 100	-	< 100
TRH >C34-C40	100	mg/kg	-	< 100	-	< 100

Client Sample ID			EV2355-1	EV2355-2	EV2355-3	EV2355-4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			S18-Ap10566	S18-Ap10567	S18-Ap10568	S18-Ap10569
Date Sampled			Apr 11, 2018	Apr 11, 2018	Apr 11, 2018	Apr 11, 2018
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	94	100	96	96
p-Terphenyl-d14 (surr.)	1	%	89	92	91	100
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	-	< 0.1
4,4'-DDD	0.05	mg/kg	-	-	-	< 0.05
4,4'-DDE	0.05	mg/kg	-	-	-	< 0.05
4,4'-DDT	0.05	mg/kg	-	-	-	< 0.05
a-BHC	0.05	mg/kg	-	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	-	< 0.05
b-BHC	0.05	mg/kg	-	-	-	< 0.05
d-BHC	0.05	mg/kg	-	-	-	< 0.05
Dieldrin	0.05	mg/kg	-	-	-	< 0.05
Endosulfan I	0.05	mg/kg	-	-	-	< 0.05
Endosulfan II	0.05	mg/kg	-	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	-	< 0.05
Endrin	0.05	mg/kg	-	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	-	< 0.05
Endrin ketone	0.05	mg/kg	-	-	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	-	< 0.05
Methoxychlor	0.2	mg/kg	-	-	-	< 0.2
Toxaphene	1	mg/kg	-	-	-	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchloroendate (surr.)	1	%	-	-	-	107
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	100

Client Sample ID			EV2355-1	EV2355-2	EV2355-3	EV2355-4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			S18-Ap10566	S18-Ap10567	S18-Ap10568	S18-Ap10569
Date Sampled			Apr 11, 2018	Apr 11, 2018	Apr 11, 2018	Apr 11, 2018
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1221	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1232	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1242	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1248	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1254	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1260	0.5	mg/kg	-	-	-	< 0.5
Total PCB*	0.5	mg/kg	-	-	-	< 0.5
Dibutylchlorendate (surr.)	1	%	-	-	-	107
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	100
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	-	-	-	< 0.5
2,4-Dichlorophenol	0.5	mg/kg	-	-	-	< 0.5
2,4,5-Trichlorophenol	1	mg/kg	-	-	-	< 1
2,4,6-Trichlorophenol	1.0	mg/kg	-	-	-	< 1
2,6-Dichlorophenol	0.5	mg/kg	-	-	-	< 0.5
4-Chloro-3-methylphenol	1.0	mg/kg	-	-	-	< 1
Pentachlorophenol	1.0	mg/kg	-	-	-	< 1
Tetrachlorophenols - Total	1.0	mg/kg	-	-	-	< 1
Total Halogenated Phenol*	1	mg/kg	-	-	-	< 1
Phenols (non-Halogenated)						
2-Cyclohexyl-4,6-dinitrophenol	20	mg/kg	-	-	-	< 20
2-Methyl-4,6-dinitrophenol	5	mg/kg	-	-	-	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	-	-	< 0.2
2-Nitrophenol	1	mg/kg	-	-	-	< 1
2,4-Dimethylphenol	0.5	mg/kg	-	-	-	< 0.5
2,4-Dinitrophenol	5	mg/kg	-	-	-	< 5
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	-	-	< 0.4
4-Nitrophenol	5	mg/kg	-	-	-	< 5
Dinoseb	20	mg/kg	-	-	-	< 20
Phenol	0.5	mg/kg	-	-	-	< 0.5
Total Non-Halogenated Phenol*	20	mg/kg	-	-	-	< 20
Phenol-d6 (surr.)	1	%	-	-	-	100
Chromium (hexavalent)	1	mg/kg	-	-	-	< 1
Cyanide (total)	1	mg/kg	-	-	-	< 10
Fluoride	100	mg/kg	-	-	-	260
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	5.4	7.3	7.6	7.6
% Moisture	1	%	9.7	13	8.8	11
Heavy Metals						
Arsenic	2	mg/kg	3.0	24	25	14
Cadmium	0.4	mg/kg	< 0.4	0.6	0.6	0.4
Chromium	5	mg/kg	< 5	6.3	6.4	6.0
Copper	5	mg/kg	33	25	30	27
Lead	5	mg/kg	10	13	21	17
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	-	-	-	< 5
Nickel	5	mg/kg	6.9	48	54	49
Selenium	2	mg/kg	-	-	-	< 2

Client Sample ID			EV2355-1	EV2355-2	EV2355-3	EV2355-4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			S18-Ap10566	S18-Ap10567	S18-Ap10568	S18-Ap10569
Date Sampled			Apr 11, 2018	Apr 11, 2018	Apr 11, 2018	Apr 11, 2018
Test/Reference	LOR	Unit				
Heavy Metals						
Silver	0.2	mg/kg	-	-	-	< 0.2
Tin	10	mg/kg	-	-	-	< 10
Zinc	5	mg/kg	30	130	150	130

Client Sample ID			EV2355-5	EV2355-6	EV2355-7	EV2355-8
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			S18-Ap10570	S18-Ap10571	S18-Ap10572	S18-Ap10573
Date Sampled			Apr 11, 2018	Apr 11, 2018	Apr 11, 2018	Apr 11, 2018
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	-	-	< 20
TRH C10-C14	20	mg/kg	-	-	-	< 20
TRH C15-C28	50	mg/kg	-	-	-	< 50
TRH C29-C36	50	mg/kg	-	-	-	< 50
TRH C10-36 (Total)	50	mg/kg	-	-	-	< 50
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	-	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	-	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	-	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	-	< 0.5
Allyl chloride	0.5	mg/kg	-	-	-	< 0.5
Benzene	0.1	mg/kg	-	-	-	< 0.1
Bromobenzene	0.5	mg/kg	-	-	-	< 0.5
Bromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromodichloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromoform	0.5	mg/kg	-	-	-	< 0.5
Bromomethane	0.5	mg/kg	-	-	-	< 0.5
Carbon disulfide	0.5	mg/kg	-	-	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	-	-	< 0.5
Chlorobenzene	0.5	mg/kg	-	-	-	< 0.5
Chloroethane	0.5	mg/kg	-	-	-	< 0.5
Chloroform	0.5	mg/kg	-	-	-	< 0.5

Client Sample ID			EV2355-5	EV2355-6	EV2355-7	EV2355-8
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			S18-Ap10570	S18-Ap10571	S18-Ap10572	S18-Ap10573
Date Sampled			Apr 11, 2018	Apr 11, 2018	Apr 11, 2018	Apr 11, 2018
Test/Reference	LOR	Unit				
Volatile Organics						
Chloromethane	0.5	mg/kg	-	-	-	< 0.5
cis-1,2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
cis-1,3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Dibromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Dibromomethane	0.5	mg/kg	-	-	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	-	-	< 0.5
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
Iodomethane	0.5	mg/kg	-	-	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	-	< 0.5
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
Methylene Chloride	0.5	mg/kg	-	-	-	< 0.5
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Styrene	0.5	mg/kg	-	-	-	< 0.5
Tetrachloroethene	0.5	mg/kg	-	-	-	< 0.5
Toluene	0.1	mg/kg	-	-	-	< 0.1
trans-1,2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
trans-1,3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Trichloroethene	0.5	mg/kg	-	-	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	-	-	< 0.5
Vinyl chloride	0.5	mg/kg	-	-	-	< 0.5
Xylenes - Total	0.3	mg/kg	-	-	-	< 0.3
Total MAH*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	-	-	52
Toluene-d8 (surr.)	1	%	-	-	-	50
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	-	-	-	< 0.5
TRH C6-C10	20	mg/kg	-	-	-	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	-	-	< 20
TRH >C10-C16	50	mg/kg	-	-	-	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	-	-	< 50
TRH >C16-C34	100	mg/kg	-	-	-	< 100
TRH >C34-C40	100	mg/kg	-	-	-	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			EV2355-5	EV2355-6	EV2355-7	EV2355-8
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			S18-Ap10570	S18-Ap10571	S18-Ap10572	S18-Ap10573
Date Sampled			Apr 11, 2018	Apr 11, 2018	Apr 11, 2018	Apr 11, 2018
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	96	100	93	104
p-Terphenyl-d14 (surr.)	1	%	95	91	93	110
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	-	< 0.1
4,4'-DDD	0.05	mg/kg	-	-	-	< 0.05
4,4'-DDE	0.05	mg/kg	-	-	-	< 0.05
4,4'-DDT	0.05	mg/kg	-	-	-	< 0.05
a-BHC	0.05	mg/kg	-	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	-	< 0.05
b-BHC	0.05	mg/kg	-	-	-	< 0.05
d-BHC	0.05	mg/kg	-	-	-	< 0.05
Dieldrin	0.05	mg/kg	-	-	-	< 0.05
Endosulfan I	0.05	mg/kg	-	-	-	< 0.05
Endosulfan II	0.05	mg/kg	-	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	-	< 0.05
Endrin	0.05	mg/kg	-	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	-	< 0.05
Endrin ketone	0.05	mg/kg	-	-	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	-	< 0.05
Methoxychlor	0.2	mg/kg	-	-	-	< 0.2
Toxaphene	1	mg/kg	-	-	-	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchloroendate (surr.)	1	%	-	-	-	99
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	93
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1221	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1232	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1242	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1248	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1254	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1260	0.5	mg/kg	-	-	-	< 0.5
Total PCB*	0.5	mg/kg	-	-	-	< 0.5
Dibutylchloroendate (surr.)	1	%	-	-	-	99
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	93

Client Sample ID			EV2355-5 Soil S18-Ap10570 Apr 11, 2018	EV2355-6 Soil S18-Ap10571 Apr 11, 2018	EV2355-7 Soil S18-Ap10572 Apr 11, 2018	EV2355-8 Soil S18-Ap10573 Apr 11, 2018
Sample Matrix						
Eurofins mgt Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	-	-	-	< 0.5
2,4-Dichlorophenol	0.5	mg/kg	-	-	-	< 0.5
2,4,5-Trichlorophenol	1	mg/kg	-	-	-	< 1
2,4,6-Trichlorophenol	1.0	mg/kg	-	-	-	< 1
2,6-Dichlorophenol	0.5	mg/kg	-	-	-	< 0.5
4-Chloro-3-methylphenol	1.0	mg/kg	-	-	-	< 1
Pentachlorophenol	1.0	mg/kg	-	-	-	< 1
Tetrachlorophenols - Total	1.0	mg/kg	-	-	-	< 1
Total Halogenated Phenol*	1	mg/kg	-	-	-	< 1
Phenols (non-Halogenated)						
2-Cyclohexyl-4,6-dinitrophenol	20	mg/kg	-	-	-	< 20
2-Methyl-4,6-dinitrophenol	5	mg/kg	-	-	-	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	-	-	< 0.2
2-Nitrophenol	1	mg/kg	-	-	-	< 1
2,4-Dimethylphenol	0.5	mg/kg	-	-	-	< 0.5
2,4-Dinitrophenol	5	mg/kg	-	-	-	< 5
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	-	-	< 0.4
4-Nitrophenol	5	mg/kg	-	-	-	< 5
Dinoseb	20	mg/kg	-	-	-	< 20
Phenol	0.5	mg/kg	-	-	-	< 0.5
Total Non-Halogenated Phenol*	20	mg/kg	-	-	-	< 20
Phenol-d6 (surr.)	1	%	-	-	-	102
Chromium (hexavalent)	1	mg/kg	-	-	-	< 1
Cyanide (total)	1	mg/kg	-	-	-	< 1
Fluoride	100	mg/kg	-	-	-	110
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	7.4	5.9	7.2	5.8
% Moisture	1	%	11	7.8	10.0	9.4
Heavy Metals						
Arsenic	2	mg/kg	16	2.2	11	6.2
Cadmium	0.4	mg/kg	0.5	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	6.1	< 5	< 5	5.5
Copper	5	mg/kg	31	28	21	60
Lead	5	mg/kg	21	12	13	28
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	-	-	-	< 5
Nickel	5	mg/kg	40	5.4	31	31
Selenium	2	mg/kg	-	-	-	4.8
Silver	0.2	mg/kg	-	-	-	< 0.2
Tin	10	mg/kg	-	-	-	< 10
Zinc	5	mg/kg	150	26	110	120

Client Sample ID			EV2355-9	EV2355-10	EV2355-11
Sample Matrix			Soil	Soil	Soil
Eurofins mgt Sample No.			S18-Ap10574	S18-Ap10575	S18-Ap10576
Date Sampled			Apr 11, 2018	Apr 11, 2018	Apr 11, 2018
Test/Reference	LOR	Unit			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					
TRH C6-C9	20	mg/kg	< 20	-	-
TRH C10-C14	20	mg/kg	< 20	-	-
TRH C15-C28	50	mg/kg	< 50	-	-
TRH C29-C36	50	mg/kg	< 50	-	-
TRH C10-36 (Total)	50	mg/kg	< 50	-	-
BTEX					
Benzene	0.1	mg/kg	< 0.1	-	-
Toluene	0.1	mg/kg	< 0.1	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-
Xylenes - Total	0.3	mg/kg	< 0.3	-	-
4-Bromofluorobenzene (surr.)	1	%	86	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	-	-
TRH C6-C10	20	mg/kg	< 20	-	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	-	-
TRH >C10-C16	50	mg/kg	< 50	-	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	-	-
TRH >C16-C34	100	mg/kg	< 100	-	-
TRH >C34-C40	100	mg/kg	< 100	-	-
Polycyclic Aromatic Hydrocarbons					
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	94	93	98
p-Terphenyl-d14 (surr.)	1	%	93	89	91
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	5.7	5.3	6.1
% Moisture	1	%	9.4	9.1	12

Client Sample ID			EV2355-9	EV2355-10	EV2355-11
Sample Matrix			Soil	Soil	Soil
Eurofins mgt Sample No.			S18-Ap10574	S18-Ap10575	S18-Ap10576
Date Sampled			Apr 11, 2018	Apr 11, 2018	Apr 11, 2018
Test/Reference	LOR	Unit			
Heavy Metals					
Arsenic	2	mg/kg	8.1	4.3	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	5.1	< 5	< 5
Copper	5	mg/kg	47	29	16
Lead	5	mg/kg	62	10	12
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	40	5.3	< 5
Zinc	5	mg/kg	120	23	9.8

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Vic EPA IWRG 621 (Solids)			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions - Method: TRH C6-C36 - LTM-ORG-2010	Sydney	Apr 11, 2018	14 Day
Volatile Organics - Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices	Sydney	Apr 11, 2018	7 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: TRH C6-C40 - LTM-ORG-2010	Sydney	Apr 11, 2018	14 Day
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: TRH C6-C40 - LTM-ORG-2010	Sydney	Apr 11, 2018	14 Day
Polycyclic Aromatic Hydrocarbons - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Sydney	Apr 11, 2018	14 Days
Organochlorine Pesticides - Method: LTM-ORG-2220 OCP & PCB in Soil and Water	Sydney	Apr 11, 2018	14 Day
Polychlorinated Biphenyls - Method: LTM-ORG-2220 OCP & PCB in Soil and Water	Sydney	Apr 11, 2018	28 Days
Phenols (Halogenated) - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Sydney	Apr 11, 2018	14 Days
Phenols (non-Halogenated) - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Sydney	Apr 11, 2018	14 Days
Chromium (hexavalent) - Method: E057 Total Speciated Chromium	Sydney	Apr 11, 2018	28 Day
Cyanide (total) - Method: E054 Total Cyanide	Sydney	Apr 11, 2018	14 Day
Fluoride - Method: LTM-INO-4150 Determination of Total Fluoride PART A – CIC	Melbourne	Apr 12, 2018	28 Day
pH (1:5 Aqueous extract at 25°C as rec.) - Method: LTM-GEN-7090 pH in soil by ISE	Sydney	Apr 12, 2018	7 Day
IWRG 621 Metals : Metals M12 - Method: LTM-MET-3040_R0 TOTAL AND DISSOLVED METALS AND MERCURY IN WATERS BY ICP-MS	Sydney	Apr 11, 2018	28 Day
BTEX - Method: TRH C6-C40 - LTM-ORG-2010	Sydney	Apr 11, 2018	14 Day
Metals M8 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Sydney	Apr 12, 2018	28 Day
% Moisture - Method: LTM-GEN-7080 Moisture	Sydney	Apr 11, 2018	14 Day

Company Name: EnviroProtect (VIC) Pty Ltd
Address: 298 Kororoit Creek Rd
Williamstown
VIC 3016

Project Name: 5 UHRIG ROAD LIDCOMBE NSW
Project ID: EV2355

Order No.: V2234
Report #: 593363
Phone: 9399 7999
Fax: 9399 7900

Received: Apr 11, 2018 3:42 PM
Due: Apr 12, 2018
Priority: 1 Day
Contact Name: -Alex Sepulveda

Eurofins | mgt Analytical Services Manager : Natalie Krasselt

Sample Detail

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Metals M8	Moisture Set	Eurofins mgt Suite B7	Vic EPA IWRG 621 (Solids)
1	EV2355-1	Apr 11, 2018		Soil	S18-Ap10566	X	X	X	X	X	X
2	EV2355-2	Apr 11, 2018		Soil	S18-Ap10567	X	X	X	X	X	X
3	EV2355-3	Apr 11, 2018		Soil	S18-Ap10568	X	X	X	X	X	X
4	EV2355-4	Apr 11, 2018		Soil	S18-Ap10569	X	X	X	X	X	X
5	EV2355-5	Apr 11, 2018		Soil	S18-Ap10570	X	X	X	X	X	X
6	EV2355-6	Apr 11, 2018		Soil	S18-Ap10571	X	X	X	X	X	X
7	EV2355-7	Apr 11, 2018		Soil	S18-Ap10572	X	X	X	X	X	X
8	EV2355-8	Apr 11, 2018		Soil	S18-Ap10573	X	X	X	X	X	X
9	EV2355-9	Apr 11, 2018		Soil	S18-Ap10574	X	X	X	X	X	X

External Laboratory

Melbourne Laboratory - NATA Site # 1254 & 14271
Sydney Laboratory - NATA Site # 18217
Brisbane Laboratory - NATA Site # 20794
Perth Laboratory - NATA Site # 23736

Company Name: EnviroProtect (VIC) Pty Ltd
Address: 298 Kororoit Creek Rd
Williamstown
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Eurofins | mgt Analytical Services Manager : Natalie Krasselt

[illegible]

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA. If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	Quality Systems Manual ver 5.1 US Department of Defense
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 50-150%-Phenols & PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.1 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Method Blank						
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	mg/kg	< 20		20	Pass	
TRH C10-C14	mg/kg	< 20		20	Pass	
TRH C15-C28	mg/kg	< 50		50	Pass	
TRH C29-C36	mg/kg	< 50		50	Pass	
Method Blank						
BTEX						
Benzene	mg/kg	< 0.1		0.1	Pass	
Toluene	mg/kg	< 0.1		0.1	Pass	
Ethylbenzene	mg/kg	< 0.1		0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2		0.2	Pass	
o-Xylene	mg/kg	< 0.1		0.1	Pass	
Xylenes - Total	mg/kg	< 0.3		0.3	Pass	
Method Blank						
Volatile Organics						
1.1-Dichloroethane	mg/kg	< 0.5		0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5		0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5		0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5		0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5		0.5	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5		0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5		0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5		0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5		0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5		0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5		0.5	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.5		0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5		0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5		0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5		0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5		0.5	Pass	
2-Butanone (MEK)	mg/kg	< 0.5		0.5	Pass	
2-Propanone (Acetone)	mg/kg	< 0.5		0.5	Pass	
4-Chlorotoluene	mg/kg	< 0.5		0.5	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.5		0.5	Pass	
Allyl chloride	mg/kg	< 0.5		0.5	Pass	
Bromobenzene	mg/kg	< 0.5		0.5	Pass	
Bromochloromethane	mg/kg	< 0.5		0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5		0.5	Pass	
Bromoform	mg/kg	< 0.5		0.5	Pass	
Bromomethane	mg/kg	< 0.5		0.5	Pass	
Carbon disulfide	mg/kg	< 0.5		0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5		0.5	Pass	
Chlorobenzene	mg/kg	< 0.5		0.5	Pass	
Chloroethane	mg/kg	< 0.5		0.5	Pass	
Chloroform	mg/kg	< 0.5		0.5	Pass	
Chloromethane	mg/kg	< 0.5		0.5	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.5		0.5	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.5		0.5	Pass	
Dibromochloromethane	mg/kg	< 0.5		0.5	Pass	
Dibromomethane	mg/kg	< 0.5		0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Dichlorodifluoromethane	mg/kg	< 0.5			0.5	Pass	
Iodomethane	mg/kg	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5			0.5	Pass	
Methylene Chloride	mg/kg	< 0.5			0.5	Pass	
Styrene	mg/kg	< 0.5			0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Trichloroethene	mg/kg	< 0.5			0.5	Pass	
Trichlorofluoromethane	mg/kg	< 0.5			0.5	Pass	
Vinyl chloride	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g,h,i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a,h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-BHC	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.2			0.2	Pass	
Toxaphene	mg/kg	< 1			1	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.5			0.5	Pass	
Aroclor-1242	mg/kg	< 0.5			0.5	Pass	
Aroclor-1248	mg/kg	< 0.5			0.5	Pass	
Aroclor-1254	mg/kg	< 0.5			0.5	Pass	
Aroclor-1260	mg/kg	< 0.5			0.5	Pass	
Total PCB*	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Phenols (Halogenated)							
2-Chlorophenol	mg/kg	< 0.5			0.5	Pass	
2,4-Dichlorophenol	mg/kg	< 0.5			0.5	Pass	
2,4,5-Trichlorophenol	mg/kg	< 1			1	Pass	
2,4,6-Trichlorophenol	mg/kg	< 1			1.0	Pass	
2,6-Dichlorophenol	mg/kg	< 0.5			0.5	Pass	
4-Chloro-3-methylphenol	mg/kg	< 1			1.0	Pass	
Pentachlorophenol	mg/kg	< 1			1.0	Pass	
Tetrachlorophenols - Total	mg/kg	< 1			1.0	Pass	
Method Blank							
Phenols (non-Halogenated)							
2-Cyclohexyl-4,6-dinitrophenol	mg/kg	< 20			20	Pass	
2-Methyl-4,6-dinitrophenol	mg/kg	< 5			5	Pass	
2-Methylphenol (o-Cresol)	mg/kg	< 0.2			0.2	Pass	
2-Nitrophenol	mg/kg	< 1			1	Pass	
2,4-Dimethylphenol	mg/kg	< 0.5			0.5	Pass	
2,4-Dinitrophenol	mg/kg	< 5			5	Pass	
3&4-Methylphenol (m&p-Cresol)	mg/kg	< 0.4			0.4	Pass	
4-Nitrophenol	mg/kg	< 5			5	Pass	
Dinoseb	mg/kg	< 20			20	Pass	
Phenol	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Chromium (hexavalent)	mg/kg	< 1			1	Pass	
Cyanide (total)	mg/kg	< 0.1			1	Pass	
Fluoride	mg/kg	< 100			100	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Molybdenum	mg/kg	< 5			5	Pass	
Nickel	mg/kg	< 5			5	Pass	
Selenium	mg/kg	< 2			2	Pass	
Silver	mg/kg	< 0.2			0.2	Pass	
Tin	mg/kg	< 10			10	Pass	

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Zinc	mg/kg	< 5		5	Pass	
LCS - % Recovery						
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	%	81		70-130	Pass	
TRH C10-C14	%	80		70-130	Pass	
LCS - % Recovery						
BTEX						
Benzene	%	91		70-130	Pass	
Toluene	%	98		70-130	Pass	
Ethylbenzene	%	100		70-130	Pass	
m&p-Xylenes	%	100		70-130	Pass	
o-Xylene	%	103		70-130	Pass	
Xylenes - Total	%	101		70-130	Pass	
LCS - % Recovery						
Volatile Organics						
1,1-Dichloroethene	%	97		70-130	Pass	
1,1,1-Trichloroethane	%	87		70-130	Pass	
1,2-Dichlorobenzene	%	102		70-130	Pass	
1,2-Dichloroethane	%	103		70-130	Pass	
Trichloroethene	%	119		70-130	Pass	
LCS - % Recovery						
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene	%	93		70-130	Pass	
TRH C6-C10	%	79		70-130	Pass	
TRH >C10-C16	%	86		70-130	Pass	
LCS - % Recovery						
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	%	90		70-130	Pass	
Acenaphthylene	%	99		70-130	Pass	
Anthracene	%	101		70-130	Pass	
Benz(a)anthracene	%	95		70-130	Pass	
Benzo(a)pyrene	%	98		70-130	Pass	
Benzo(b&j)fluoranthene	%	102		70-130	Pass	
Benzo(g,h,i)perylene	%	101		70-130	Pass	
Benzo(k)fluoranthene	%	97		70-130	Pass	
Chrysene	%	100		70-130	Pass	
Dibenz(a,h)anthracene	%	103		70-130	Pass	
Fluoranthene	%	121		70-130	Pass	
Fluorene	%	99		70-130	Pass	
Indeno(1,2,3-cd)pyrene	%	102		70-130	Pass	
Naphthalene	%	97		70-130	Pass	
Phenanthrene	%	98		70-130	Pass	
Pyrene	%	117		70-130	Pass	
LCS - % Recovery						
Organochlorine Pesticides						
4,4'-DDD	%	96		70-130	Pass	
4,4'-DDE	%	96		70-130	Pass	
4,4'-DDT	%	104		70-130	Pass	
a-BHC	%	96		70-130	Pass	
Aldrin	%	88		70-130	Pass	
b-BHC	%	96		70-130	Pass	
d-BHC	%	96		70-130	Pass	
Dieldrin	%	96		70-130	Pass	
Endosulfan I	%	96		70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan II	%	104			70-130	Pass	
Endosulfan sulphate	%	88			70-130	Pass	
Endrin	%	112			70-130	Pass	
Endrin aldehyde	%	88			70-130	Pass	
Endrin ketone	%	88			70-130	Pass	
g-BHC (Lindane)	%	96			70-130	Pass	
Heptachlor	%	104			70-130	Pass	
Heptachlor epoxide	%	96			70-130	Pass	
Hexachlorobenzene	%	88			70-130	Pass	
Methoxychlor	%	112			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1260	%	115			70-130	Pass	
LCS - % Recovery							
Phenols (Halogenated)							
2-Chlorophenol	%	97			30-130	Pass	
2,4-Dichlorophenol	%	100			30-130	Pass	
2,4,5-Trichlorophenol	%	104			30-130	Pass	
2,4,6-Trichlorophenol	%	98			30-130	Pass	
2,6-Dichlorophenol	%	102			30-130	Pass	
4-Chloro-3-methylphenol	%	106			30-130	Pass	
Pentachlorophenol	%	80			30-130	Pass	
Tetrachlorophenols - Total	%	93			30-130	Pass	
LCS - % Recovery							
Phenols (non-Halogenated)							
2-Methylphenol (o-Cresol)	%	102			30-130	Pass	
2-Nitrophenol	%	99			30-130	Pass	
2,4-Dimethylphenol	%	103			30-130	Pass	
3&4-Methylphenol (m&p-Cresol)	%	100			30-130	Pass	
4-Nitrophenol	%	103			30-130	Pass	
Dinoseb	%	80			30-130	Pass	
Phenol	%	105			30-130	Pass	
LCS - % Recovery							
Chromium (hexavalent)	%	112			70-130	Pass	
Cyanide (total)	%	114			70-130	Pass	
Fluoride	%	129			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	91			70-130	Pass	
Cadmium	%	94			70-130	Pass	
Chromium	%	91			70-130	Pass	
Copper	%	93			70-130	Pass	
Lead	%	94			70-130	Pass	
Mercury	%	99			70-130	Pass	
Molybdenum	%	93			70-130	Pass	
Nickel	%	98			70-130	Pass	
Selenium	%	87			70-130	Pass	
Silver	%	94			70-130	Pass	
Tin	%	95			70-130	Pass	
Zinc	%	99			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery								
Polycyclic Aromatic Hydrocarbons				Result 1				
Acenaphthene	S18-Ap10566	CP	%	82		70-130	Pass	
Acenaphthylene	S18-Ap10566	CP	%	84		70-130	Pass	
Anthracene	S18-Ap10566	CP	%	84		70-130	Pass	
Benzo(a)anthracene	S18-Ap10566	CP	%	89		70-130	Pass	
Benzo(a)pyrene	S18-Ap10566	CP	%	83		70-130	Pass	
Benzo(b&j)fluoranthene	S18-Ap10566	CP	%	79		70-130	Pass	
Benzo(g,h,i)perylene	S18-Ap10566	CP	%	70		70-130	Pass	
Benzo(k)fluoranthene	S18-Ap10566	CP	%	74		70-130	Pass	
Chrysene	S18-Ap10566	CP	%	77		70-130	Pass	
Dibenz(a,h)anthracene	S18-Ap10566	CP	%	76		70-130	Pass	
Fluoranthene	S18-Ap10566	CP	%	82		70-130	Pass	
Fluorene	S18-Ap10566	CP	%	84		70-130	Pass	
Indeno(1.2.3-cd)pyrene	S18-Ap10566	CP	%	79		70-130	Pass	
Naphthalene	S18-Ap10566	CP	%	85		70-130	Pass	
Phenanthrene	S18-Ap10566	CP	%	80		70-130	Pass	
Pyrene	S18-Ap10566	CP	%	85		70-130	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	S18-Ap10493	NCP	%	88		70-130	Pass	
Cadmium	S18-Ap10493	NCP	%	91		70-130	Pass	
Chromium	S18-Ap10493	NCP	%	87		70-130	Pass	
Copper	S18-Ap10493	NCP	%	89		70-130	Pass	
Lead	S18-Ap10493	NCP	%	89		70-130	Pass	
Mercury	S18-Ap10493	NCP	%	97		70-130	Pass	
Nickel	S18-Ap10493	NCP	%	91		70-130	Pass	
Zinc	S18-Ap10493	NCP	%	92		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1				
TRH C6-C9	S18-Ap10567	CP	%	100		70-130	Pass	
TRH C10-C14	S18-Ap10567	CP	%	75		70-130	Pass	
Spike - % Recovery								
BTEX				Result 1				
Benzene	S18-Ap10567	CP	%	81		70-130	Pass	
Toluene	S18-Ap10567	CP	%	85		70-130	Pass	
Ethylbenzene	S18-Ap10567	CP	%	86		70-130	Pass	
m&p-Xylenes	S18-Ap10567	CP	%	86		70-130	Pass	
o-Xylene	S18-Ap10567	CP	%	88		70-130	Pass	
Xylenes - Total	S18-Ap10567	CP	%	87		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1				
Naphthalene	S18-Ap10567	CP	%	105		70-130	Pass	
TRH C6-C10	S18-Ap10567	CP	%	97		70-130	Pass	
TRH >C10-C16	S18-Ap10567	CP	%	81		70-130	Pass	
Spike - % Recovery								
Volatile Organics				Result 1				
1,1-Dichloroethene	S18-Ap07934	NCP	%	93		70-130	Pass	
1,1,1-Trichloroethane	S18-Ap07934	NCP	%	82		70-130	Pass	
1,2-Dichlorobenzene	S18-Ap07934	NCP	%	87		70-130	Pass	
1,2-Dichloroethane	S18-Ap07934	NCP	%	96		70-130	Pass	
Trichloroethene	S18-Ap07934	NCP	%	97		70-130	Pass	
Spike - % Recovery								
Organochlorine Pesticides				Result 1				

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
4,4'-DDD	S18-Ap10494	NCP	%	112		70-130	Pass	
4,4'-DDE	S18-Ap10494	NCP	%	96		70-130	Pass	
4,4'-DDT	S18-Ap07565	NCP	%	80		70-130	Pass	
a-BHC	S18-Ap10494	NCP	%	88		70-130	Pass	
Aldrin	S18-Ap10494	NCP	%	88		70-130	Pass	
b-BHC	S18-Ap10494	NCP	%	88		70-130	Pass	
d-BHC	S18-Ap10494	NCP	%	88		70-130	Pass	
Dieldrin	S18-Ap10494	NCP	%	88		70-130	Pass	
Endosulfan I	S18-Ap10494	NCP	%	96		70-130	Pass	
Endosulfan II	S18-Ap10494	NCP	%	96		70-130	Pass	
Endosulfan sulphate	S18-Ap10494	NCP	%	88		70-130	Pass	
Endrin	S18-Ap10494	NCP	%	96		70-130	Pass	
Endrin aldehyde	S18-Ap10494	NCP	%	88		70-130	Pass	
Endrin ketone	S18-Ap10494	NCP	%	80		70-130	Pass	
g-BHC (Lindane)	S18-Ap10494	NCP	%	88		70-130	Pass	
Heptachlor	S18-Ap10494	NCP	%	96		70-130	Pass	
Heptachlor epoxide	S18-Ap10494	NCP	%	96		70-130	Pass	
Hexachlorobenzene	S18-Ap10494	NCP	%	88		70-130	Pass	
Methoxychlor	S18-Ap10494	NCP	%	80		70-130	Pass	
Toxaphene	S18-Ap05841	NCP	%	88		70-130	Pass	
Spike - % Recovery								
Polychlorinated Biphenyls				Result 1				
Aroclor-1260	S18-Ap10494	NCP	%	121		70-130	Pass	
Spike - % Recovery								
				Result 1				
Fluoride	M18-Ap04665	NCP	%	76		70-130	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Molybdenum	S18-Ap10493	NCP	%	98		70-130	Pass	
Selenium	S18-Ap10493	NCP	%	87		70-130	Pass	
Silver	S18-Ap10493	NCP	%	92		70-130	Pass	
Spike - % Recovery								
				Result 1				
Chromium (hexavalent)	S18-Ap10573	CP	%	71		70-130	Pass	
Spike - % Recovery								
Polycyclic Aromatic Hydrocarbons				Result 1				
Acenaphthene	S18-Ap10576	CP	%	90		70-130	Pass	
Acenaphthylene	S18-Ap10576	CP	%	91		70-130	Pass	
Anthracene	S18-Ap10576	CP	%	91		70-130	Pass	
Benz(a)anthracene	S18-Ap10576	CP	%	96		70-130	Pass	
Benzo(a)pyrene	S18-Ap10576	CP	%	88		70-130	Pass	
Benzo(b&j)fluoranthene	S18-Ap10576	CP	%	85		70-130	Pass	
Benzo(g,h,i)perylene	S18-Ap10576	CP	%	77		70-130	Pass	
Benzo(k)fluoranthene	S18-Ap10576	CP	%	80		70-130	Pass	
Chrysene	S18-Ap10576	CP	%	86		70-130	Pass	
Dibenz(a,h)anthracene	S18-Ap10576	CP	%	81		70-130	Pass	
Fluoranthene	S18-Ap10576	CP	%	89		70-130	Pass	
Fluorene	S18-Ap10576	CP	%	91		70-130	Pass	
Indeno(1,2,3-cd)pyrene	S18-Ap10576	CP	%	84		70-130	Pass	
Naphthalene	S18-Ap10576	CP	%	92		70-130	Pass	
Phenanthrene	S18-Ap10576	CP	%	87		70-130	Pass	
Pyrene	S18-Ap10576	CP	%	92		70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1	Result 2	RPD	Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
pH (1:5 Aqueous extract at 25°C as rec.)	S18-Ap10566	CP	pH Units	5.4	5.3	pass	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S18-Ap10492	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Cadmium	S18-Ap10492	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S18-Ap10492	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	S18-Ap10492	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
Lead	S18-Ap10492	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
Mercury	S18-Ap10614	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S18-Ap10492	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	S18-Ap10492	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S18-Ap10509	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S18-Ap10509	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S18-Ap10509	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S18-Ap10509	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S18-Ap10509	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S18-Ap10509	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S18-Ap10509	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S18-Ap10509	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S18-Ap10509	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C10-C14	S18-Ap10509	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S18-Ap10509	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S18-Ap10509	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	S18-Ap08398	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	S18-Ap08398	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	S18-Ap08398	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	S18-Ap08398	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	S18-Ap08398	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	S18-Ap08398	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	S18-Ap08398	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	S18-Ap08398	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	S18-Ap08398	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	S18-Ap08398	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	S18-Ap08398	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	S18-Ap08398	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	S18-Ap08398	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	S18-Ap08398	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	S18-Ap08398	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	S18-Ap08398	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	S18-Ap08398	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Propanone (Acetone)	S18-Ap08398	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chlorotoluene	S18-Ap08398	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
4-Methyl-2-pentanone (MIBK)	S18-Ap08398	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Allyl chloride	S18-Ap08398	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromobenzene	S18-Ap08398	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromochloromethane	S18-Ap08398	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromodichloromethane	S18-Ap08398	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromoform	S18-Ap08398	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromomethane	S18-Ap08398	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon disulfide	S18-Ap08398	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon Tetrachloride	S18-Ap08398	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chlorobenzene	S18-Ap08398	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroethane	S18-Ap08398	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroform	S18-Ap08398	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloromethane	S18-Ap08398	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1.2-Dichloroethene	S18-Ap08398	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1.3-Dichloropropene	S18-Ap08398	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromochloromethane	S18-Ap08398	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromomethane	S18-Ap08398	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dichlorodifluoromethane	S18-Ap08398	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Iodomethane	S18-Ap08398	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Isopropyl benzene (Cumene)	S18-Ap08398	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Methylene Chloride	S18-Ap08398	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Styrene	S18-Ap08398	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Tetrachloroethene	S18-Ap08398	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
trans-1.2-Dichloroethene	S18-Ap08398	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
trans-1.3-Dichloropropene	S18-Ap08398	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichloroethene	S18-Ap08398	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichlorofluoromethane	S18-Ap08398	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Vinyl chloride	S18-Ap08398	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
TRH >C10-C16	S18-Ap10509	NCP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C16-C34	S18-Ap10509	NCP	mg/kg	< 100	< 100	<1	30%	Pass
TRH >C34-C40	S18-Ap10509	NCP	mg/kg	< 100	< 100	<1	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	S18-Ap10492	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	S18-Ap10492	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	S18-Ap10492	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	S18-Ap10492	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-BHC	S18-Ap10492	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	S18-Ap10492	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-BHC	S18-Ap10492	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-BHC	S18-Ap10492	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	S18-Ap10492	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	S18-Ap10492	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	S18-Ap10492	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	S18-Ap10492	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	S18-Ap10492	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	S18-Ap10492	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	S18-Ap10492	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-BHC (Lindane)	S18-Ap10492	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	S18-Ap10492	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	S18-Ap10492	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	S18-Ap10492	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass

Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Methoxychlor	S18-Ap10492	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Toxaphene	S18-Ap10492	NCP	mg/kg	< 1	< 1	<1	30%	Pass
Duplicate								
Polychlorinated Biphenyls				Result 1	Result 2	RPD		
Aroclor-1016	S18-Ap10492	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Aroclor-1221	S18-Ap10492	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1232	S18-Ap10492	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Aroclor-1242	S18-Ap10492	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Aroclor-1248	S18-Ap10492	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Aroclor-1254	S18-Ap10492	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Aroclor-1260	S18-Ap10492	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
Chromium (hexavalent)	S18-Ap10569	CP	mg/kg	< 1	< 1	<1	30%	Pass
Cyanide (total)	S18-Ap10569	CP	mg/kg	< 10	< 10	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Tin	S18-Ap10492	NCP	mg/kg	< 10	< 10	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
% Moisture	S18-Ap10570	CP	%	11	9.3	17	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
pH (1:5 Aqueous extract at 25°C as rec.)	S18-Ap10573	CP	pH Units	5.8	5.7	pass	30%	Pass
Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	S18-Ap10575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	S18-Ap10575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	S18-Ap10575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)anthracene	S18-Ap10575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	S18-Ap10575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	S18-Ap10575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	S18-Ap10575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	S18-Ap10575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	S18-Ap10575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	S18-Ap10575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	S18-Ap10575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	S18-Ap10575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1,2,3-cd)pyrene	S18-Ap10575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	S18-Ap10575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	S18-Ap10575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S18-Ap10575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Comments

V2 - Nickel result revised from Ap12568.

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	No
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

Authorised By

Natalie Krasselt Analytical Services Manager
Michael Brancati Senior Analyst-Inorganic (VIC)



Glenn Jackson

National Operations Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

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EnviroProtect (Vic) Pty Ltd

59362

EnviroProtect (Vic) Pty Ltd
Office / Postal Address: 298 Kororoit Creek Road, Williamstown Vic 3016

Ph: (03) 9399 7999 Fax: (03) 9399 7900

Certificate of Analysis

EnviroProtect (VIC) Pty Ltd
298 Kororoit Creek Rd
Williamstown
VIC 3016



NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or
measurements included in this document are traceable
to Australian/national standards.

Attention: -Alex Sepulveda

Report 593613-L
Project name ADDITIONAL - 5 UHRIG ROAD LIDCOMBE NSW
Project ID EV2355
Received Date Apr 12, 2018

Client Sample ID			EV2355-3
Sample Matrix			US Leachate
Eurofins mgt Sample No.			S18-Ap12569
Date Sampled			Apr 11, 2018
Test/Reference	LOR	Unit	
Heavy Metals			
Nickel	0.05	mg/L	< 0.05
USA Leaching Procedure			
Leachate Fluid ^{CO1}		comment	1.0
pH (initial)	0.1	pH Units	8.2
pH (off)	0.1	pH Units	5.3
pH (USA HCl addition)	0.1	pH Units	1.7

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.

A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description

Heavy Metals

- Method: LTM-MET-3030 by ICP-OES (hydride ICP-OES for Mercury)

USA Leaching Procedure

- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes

Testing Site

Sydney

Extracted

Apr 12, 2018

Holding Time

180 Day

Sydney

Apr 12, 2018

14 Day

Company Name: EnviroProtect (VIC) Pty Ltd
Address: 298 Kororoit Creek Rd
Williamstown
VIC 3016

Project Name: ADDITIONAL - 5 UHRIG ROAD LIDCOMBE NSW
Project ID: EV2355

Order No.: V3422
Report #: 593613
Phone: 9399 7999
Fax: 9399 7900

Received: Apr 12, 2018 4:44 PM
Due: Apr 13, 2018
Priority: 1 Day
Contact Name: -Alex Sepulveda

Eurofins | mgt Analytical Services Manager : Natalie Krasselt

Sample Detail

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID	Nickel	USA Leaching Procedure	Moisture Set
1	EV2355-2	Apr 11, 2018		Soil	S18-Ap12565	X	X	X
2	EV2355-3	Apr 11, 2018		Soil	S18-Ap12566	X	X	X
3	EV2355-4	Apr 11, 2018		Soil	S18-Ap12567	X	X	X
4	EV2355-5	Apr 11, 2018		Soil	S18-Ap12568	X	X	X
5	EV2355-3	Apr 11, 2018		US Leachate	S18-Ap12569	X	X	X
Test Counts						5	1	4

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

***NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram	mg/L: milligrams per litre	ug/L: micrograms per litre
ppm: Parts per million	ppb: Parts per billion	%: Percentage
org/100mL: Organisms per 100 millilitres	NTU: Nephelometric Turbidity Units	MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	Quality Systems Manual ver 5.1 US Department of Defense
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 50-150%-Phenols & PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.1 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test				Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank										
Heavy Metals										
Nickel				mg/L	< 0.05			0.05	Pass	
LCS - % Recovery										
Heavy Metals										
Nickel				%	82			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1				Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery										
Heavy Metals										
Nickel	S18-Ap12569	CP	%	82				70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1				Acceptance Limits	Pass Limits	Qualifying Code
Duplicate										
Heavy Metals										
Nickel	S18-Ap11792	NCP	mg/L	< 0.05	< 0.05	RPD	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
C01	Leachate Fluid Key: 1 - pH 5.0; 2 - pH 2.9; 3 - pH 9.2; 4 - Reagent (DI) water; 5 - Client sample, 6 - other

Authorised By

Natalie Krassell Analytical Services Manager



Glenn Jackson

National Operations Manager

Final report - this Report replaces any previously Issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

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**95% UCL STATISTICAL
ANALYSIS**

	A
1	Ni
2	6.9
3	48
4	54
5	49
6	40
7	5.4
8	31
9	31
10	40
11	5.3
12	5

	A	B	C	D	E	F	G	H	I	J	K	L		
1	UCL Statistics for Uncensored Full Data Sets													
2														
3	User Selected Options													
4	Date/Time of Computation			ProUCL 5.113/04/2018 1:39:34 PM										
5	From File			WorkSheet.xls										
6	Full Precision			OFF										
7	Confidence Coefficient			95%										
8	Number of Bootstrap Operations			2000										
9														
10														
11	Ni													
12														
13	General Statistics													
14	Total Number of Observations					11		Number of Distinct Observations				9		
15								Number of Missing Observations				0		
16	Minimum					5		Mean				28.69		
17	Maximum					54		Median				31		
18	SD					19.54		Std. Error of Mean				5.891		
19	Coefficient of Variation					0.681		Skewness				-0.235		
20														
21	Normal GOF Test													
22	Shapiro Wilk Test Statistic					0.848		Shapiro Wilk GOF Test						
23	5% Shapiro Wilk Critical Value					0.85		Data Not Normal at 5% Significance Level						
24	Lilliefors Test Statistic					0.231		Lilliefors GOF Test						
25	5% Lilliefors Critical Value					0.251		Data appear Normal at 5% Significance Level						
26	Data appear Approximate Normal at 5% Significance Level													
27														
28	Assuming Normal Distribution													
29	95% Normal UCL					95% UCLs (Adjusted for Skewness)								
30	95% Student's-t UCL					39.37		95% Adjusted-CLT UCL (Chen-1995)				37.93		
31								95% Modified-t UCL (Johnson-1978)				39.3		
32														
33	Gamma GOF Test													
34	A-D Test Statistic					1.091		Anderson-Darling Gamma GOF Test						
35	5% A-D Critical Value					0.742		Data Not Gamma Distributed at 5% Significance Level						
36	K-S Test Statistic					0.28		Kolmogorov-Smirnov Gamma GOF Test						
37	5% K-S Critical Value					0.26		Data Not Gamma Distributed at 5% Significance Level						
38	Data Not Gamma Distributed at 5% Significance Level													
39														
40	Gamma Statistics													
41	k hat (MLE)					1.51		k star (bias corrected MLE)				1.159		
42	Theta hat (MLE)					19		Theta star (bias corrected MLE)				24.76		
43	nu hat (MLE)					33.22		nu star (bias corrected)				25.49		
44	MLE Mean (bias corrected)					28.69		MLE Sd (bias corrected)				26.65		
45								Approximate Chi Square Value (0.05)				14.99		
46	Adjusted Level of Significance					0.0278		Adjusted Chi Square Value				13.69		
47														
48	Assuming Gamma Distribution													
49	95% Approximate Gamma UCL (use when n>=50))					48.8		95% Adjusted Gamma UCL (use when n<50)				53.42		
50														
51	Lognormal GOF Test													
52	Shapiro Wilk Test Statistic					0.769		Shapiro Wilk Lognormal GOF Test						
53	5% Shapiro Wilk Critical Value					0.85		Data Not Lognormal at 5% Significance Level						
54	Lilliefors Test Statistic					0.304		Lilliefors Lognormal GOF Test						
55	5% Lilliefors Critical Value					0.251		Data Not Lognormal at 5% Significance Level						

	A	B	C	D	E	F	G	H	I	J	K	L
56	Data Not Lognormal at 5% Significance Level											
57												
58	Lognormal Statistics											
59	Minimum of Logged Data				1.609		Mean of logged Data				2.99	
60	Maximum of Logged Data				3.989		SD of logged Data				1.021	
61												
62	Assuming Lognormal Distribution											
63	95% H-UCL				89.44		90% Chebyshev (MVUE) UCL				62.21	
64	95% Chebyshev (MVUE) UCL				76.16		97.5% Chebyshev (MVUE) UCL				95.52	
65	99% Chebyshev (MVUE) UCL				133.6							
66												
67	Nonparametric Distribution Free UCL Statistics											
68	Data appear to follow a Discernible Distribution at 5% Significance Level											
69												
70	Nonparametric Distribution Free UCLs											
71	95% CLT UCL				38.38		95% Jackknife UCL				39.37	
72	95% Standard Bootstrap UCL				37.78		95% Bootstrap-t UCL				39.22	
73	95% Hall's Bootstrap UCL				36.75		95% Percentile Bootstrap UCL				38.13	
74	95% BCA Bootstrap UCL				37.48							
75	90% Chebyshev(Mean, Sd) UCL				46.37		95% Chebyshev(Mean, Sd) UCL				54.37	
76	97.5% Chebyshev(Mean, Sd) UCL				65.48		99% Chebyshev(Mean, Sd) UCL				87.31	
77												
78	Suggested UCL to Use											
79	95% Student's-t UCL				39.37							
80												
81	When a data set follows an approximate (e.g., normal) distribution passing one of the GOF test											
82	When applicable, it is suggested to use a UCL based upon a distribution (e.g., gamma) passing both GOF tests in ProUCL											
83												
84	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
85	Recommendations are based upon data size, data distribution, and skewness.											
86	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
87	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
88												
89	Note: For highly negatively-skewed data, confidence limits (e.g., Chen, Johnson, Lognormal, and Gamma) may not be											
90	reliable. Chen's and Johnson's methods provide adjustments for positively skewed data sets.											
91												



EnviroProtect (Vic) Pty Ltd

A.B.N. 39 079 041 366

Environmental Scientists

**REPORT ON
OFFSITE DISPOSAL CLASSIFICATION
(EV2262.REV2)**

FOR

N. MOIT AND SONS (NSW) PTY LTD

AT

76 - 100 CHURCH STREET, PARRAMATTA, NSW

APRIL 2018

ENVIROPROTECT (VIC) PTY LTD

298 Kororoit Creek Road,
Williamstown, Vic 3016
PH: (613) 9399 7999
FAX: (613) 9399 7900

1. Introduction

EnviroProtect (Vic) Pty Ltd was engaged by N. Moit and Sons (NSW) Pty Ltd ("Client") to conduct soil sampling program at 76 – 100 Church Street, Parramatta, NSW, for the purpose of characterising in-situ soils on site. The soil sampling program was conducted on Monday 27th November 2017 and Wednesday 28th March 2018.

The proposed development will comprise the excavation and removal of in-situ soils on site to accommodate future construction works which will include the construction of four levels of basement car parking (depths range from 8m to 13m BGL – below ground level). The objective of this sampling program was to provide N. Moit and Sons (NSW) Pty Ltd with offsite disposal classification of proposed soils for excavation (Approx. 50,000 m³). Please refer to the attached sampling location diagram to identify the soil sampling locations.

Additional samples were collected on the natural undisturbed material on March 2018 with the purpose to assess the presence of acid sulfate soils and full meet the criteria for Virgin Excavated Natural Material (VENM) classification.

2. Site history

Site history information was obtained from the Coffey report "Stage 1 – Site contamination Assessment 76-100 Church Street Parramatta, NSW, 2150" (August, 2013). In this report a review of available information including historical land title information, historical aerial photographs, planning certificates, WorkCover NSW licenses to keep dangerous goods, and online databases was conducted.

The site is situated at the corner of Parkes Street and Church Street within a generally commercial precinct at the southern edge of the Parramatta CBD. The site has a total area of approx. 4,200 m² and is comprised of 2 lots with separate uses. The latest land uses comprised of commercial premises including a motorcycle retailer and workshop, restaurants, vacant retail premises and a car park.

The Section 149 planning certificate for the site indicates that the site is not subject to any matters arising under the Contaminated Land Management Act 1997. Furthermore, a search of NSW WorkCover Licenses to Keep Dangerous Goods database indicated that there has not been any License to Keep Dangerous Goods for the premises.

A search of the List of NSW Contaminated Sites Notified to EPA (www.epa.nsw.gov.au/clm/publiclist.htm) was made in April 2018 and indicates that no notifications have been issued for the site or immediately surrounding land.

A land title certificates obtained for the site indicates the land use was predominantly residential before 1952 and gradually changed for commercial use as allotments were merged and developed. Businesses operating in this site included, for example, Pizza Hut Australia Pty Ltd, Tiptree Pty Ltd, Parramatta Motorcycles Pty Ltd and Cambond Pty Ltd.

Based on a review of the site history it was considered that the potential sources of contamination pose a low to moderate likelihood of contamination. Evidence of other potential sources of contamination, such as industrial activities / processes and the presence of hazardous building materials, were not identified.

3. Assessment criteria

The samples collected from in-situ soils were characterised for off-site disposal in accordance with the requirements of the New South Wales Environment protection Authority (EPA), Waste Classification Guidelines – Part 1: Classification of waste (2014) (Industrial Waste Resource Regulations 2009).

4. Soil sampling Methodology

A total of fifty one (51) soil samples were collected from the in-situ soils on site (including 6 soils samples for QA/QC purposes). Soils were sampled using geoprobe drilling and hand tools. Soil samples were placed in glass jars and sealed with a screw cap lid.

Additional four (4) soil samples were collected from the in-situ soils on site on March 2018 to assess if these natural soils are classifiable as acid sulfate soils or not. In this occasion the excavation works were being performed around 7 m BGL. Soils were sampled using mechanical excavator and hand tools. Soil samples were placed in glass jars and sealed with a screw cap lid.

Following collection, the samples were stored on ice, prior to being forwarded to a NATA Registered Laboratory for analysis. Please refer to attached sampling location map to identify the locations of the soil sampling.

5. Soil Investigation

A total of fifty one (51) soil samples - comprising of forty five (45) primary samples and six (6) samples for QA/QC purposes, were collected from representative locations across areas where excavation / works are planned for offsite disposal purposes as per EPA/NSW guidelines. Bore hole locations were allocated in an approximate grid pattern locations to represent the soils proposed for excavation. Please note that the east portion of the site could not be sampled due to the presence of some stockpiles and maritime containers.

Soil encountered during the sampling program mainly comprise of:

- In the southern portion of the site: Natural silty clay, in depths between surface to 6.5 m, with characteristics of a residual soil, medium to high plasticity
- In the northern portion of the site: Natural silty clay, in depths between soil surface to 1.5 m, with characteristics of a residual soil, with high plasticity, orange brown to grey
- Overlying a siltstone layer, highly to moderately weathered, overlying
- Siltstone bedrock, low to medium strength.

A fill layer of soils of approx. 0 to 0.8 m of thickness, consisted of sandy clay (dark brown) with trace of gravels, was just observed at the southern portion of the site during the sampling program, only in 2 boreholes (BH1 and BH4). This fill material was excavated, stockpiled, classified and removed from the site. Therefore, there is not fill soils at the site at present.

The soil profile encountered are consistent with the Geotechnical Investigation Report by Coffey Company dated 9th December 2017, with the exception of fill soil material (some locations and thicknesses), which can be explained due to the excavation works being conducted on site.

Please refer to the attached sampling locations plan to identify the approximate locations of the samples. The Table 2 below shows the samples identification and the kind of soil sampled.

Table 2 – Samples Identification and related soil type

Sample No.	Depth(m)	Soil Type	Sample No.	Depth(m)	Soil Type
EV2262-BH1-0.7	0.7	Soil Fill	EV2262-BH8-2.9	2.9	Natural Soil
EV2262-BH1-2.5	2.5	Natural Soil	EV2262-BH9-0.6	0.6	Natural Soil
EV2262-BH2-0.5	0.5	Natural Soil	EV2262-BH9-2.7	2.7	Natural Soil
EV2262-BH2-2.4	2.4	Natural Soil	EV2262-GW3-0.8	0.8	Natural Soil
EV2262-BH2-4.0	4.0	Natural Soil	EV2262-GW3-2.0	2.0	Natural Soil
EV2262-BH2-5.3	5.3	Natural Soil	EV2262-GW3-4.0	4.0	Natural Soil
EV2262-GW1-0.6	0.6	Natural Soil	EV2262-BH10-0.6	0.6	Natural Soil
EV2262-GW1-2.6	2.6	Natural Soil	EV2262-BH10-2.8	2.8	Natural Soil
EV2262-GW1-4.2	4.2	Natural Soil	EV2262-BH11-0.5	0.5	Natural Soil
EV2262-BH3-1.0	1.0	Natural Soil	EV2262-BH11-3.2	3.2	Natural Soil
EV2262-BH3-2.5	2.5	Natural Soil	EV2262-BH12-0.7	0.7	Natural Soil
EV2262-BH3-4.5	4.5	Natural Soil	EV2262-BH12-2.6	2.6	Natural Soil
EV2262-BH4-0.4	0.4	Soil Fill	EV2262-T1-0.8	0.8	Natural Soil
EV2262-BH4-3.0	3.0	Natural Soil	EV2262-T1-3.2	3.2	Natural Soil
EV2262-BH4-4.8	4.8	Natural Soil	EV2262-T2-0.4	0.4	Natural Soil
EV2262-GW2-0.4	0.4	Natural Soil	EV2262-T2-2.9	2.9	Natural Soil
EV2262-GW2-1.2	1.2	Natural Soil	EV2262-T3-0.9	0.9	Natural Soil
EV2262-GW2-3.0	3.0	Natural Soil	EV2262-T3-2.9	2.9	Natural Soil
EV2262-GW2-4.5	4.5	Natural Soil	EV2262-T3-4.8	4.8	Natural Soil
EV2262-BH5-0.4	0.4	Natural Soil	EV2262-DP1	0.6	Natural Soil
EV2262-BH5-2.8	2.8	Natural Soil	EV2262-DP2	3.2	Natural Soil
EV2262-BH6-0.9	0.9	Natural Soil	EV2262-DP3	2.8	Natural Soil
EV2262-BH6-2.8	2.8	Natural Soil	EV2262-SP1*	0.6	Natural Soil
EV2262-BH7-1.2	1.2	Natural Soil	EV2262-SP2*	3.2	Natural Soil
EV2262-BH7-3.3	3.3	Natural Soil	EV2262-SP3*	2.8	Natural Soil
EV2262-BH8-1.4	1.4	Natural Soil			

* Samples sent to a secondary laboratory (Envirolab Services Pty Ltd)

The four (4) additional soil samples were collected in March 2018 from representative locations across areas where excavation / works were being performed on site at depths range 7 - 8 m BGL.

6. Laboratory Analysis

Samples collected were dispatched and analysed by a NATA accredited laboratory MGT-Eurofins. Based on field observations, soil samples were analysed for Soil Full Screen, SPOCAS and contaminants of concern. Laboratory soil analysis results for soil sampling conducted are presented in Tables 4, 5 and 6 in Appendix.

7. Discussion of Results:

The fill layer of soils was removed during the excavation works being conducted on site. For this reason, the analytical results of the samples collected in fill layer of soils (EV2262-BH1-0.7 and EV2262-BH4-0.4) are not part of this report.

7.1 Acid Sulfate Soil Assessment

A summary of the sampling and analytical program results for classification of sampled soils with regards to an assessment of the acid sulfate soils criteria is provided in table 3 below.

Criteria for sands and loamy sands have been adopted for the assessment of acid sulfate soils as this soils description is the most consistent with the soils observed within the in-situ soils.

Table 3. Analytical results for soil samples collected (Sandy Loams to light clay (medium))

Sample ID	Sampling date	<1000 tonnes disturbed	
		Sulfur Trial (%) (% oxidisable S)	Acid Trial (mol H+/tonne)
EV 2349 – 1	28/03/18	<0.02	<10
EV 2349 – 2	28/03/18	<0.02	<10
EV 2349 – 3	28/03/18	<0.02	<10
EV 2349 – 4	28/03/18	<0.02	<10
Sands to loamy sands		0.03	18
Sandy loams to light clays		0.06	36
Medium to heavy clays and silty clays		0.1	62

Results of soils samples collected as indicated in table 3, are below the adopted criteria, which is the action criterion level defining a need to manage the soils as acid sulfate soils. Therefore, based on the assessment of the reported results, the **sampled soils are not classifiable as acid sulfate soils**.

Sampled soils are not classified as acid sulfate soils for the following reasons:

- The 1:250,000 Botany Bay Acid Sulfate Soil Risk Map indicates that the site is located in an area of no known occurrence of acid sulfate soils (ASS).

- SPOCAS analysis results indicated concentrations of %S and acid trial below the adopted guidelines (Acid Sulfate Soils Action Criteria).
- pH KCL results on the range of 11 – 12 pH units.
- pH OX results on the range of 8.1 – 12 pH units.

7.2 Classification of the in-situ natural soils

The classification of the in-situ natural soils was conducted in general accordance with the procedures for classifying waste in EPA-NSW (2014). According to the waste classification procedure:

STEP 1: The material is not considered to be Special Waste. No apparent visual evidence of potential asbestos containing materials was observed in the samples collected, neither other special wastes as tyres, clinical waste, etc.

STEP 2: The natural in-situ soils are not considered to be a *liquid waste*.

STEP 3: This material is considered to be pre-classified as virgin excavated natural material (VENM), based on:

- The concentrations of organic contaminants of concern detected by laboratory analysis were less than the limits of reporting and the concentrations of metals detected by laboratory analysis were generally within background ranges.
- The material does not appear to have been contaminated with manufactured chemicals, or with process residues, as a result of industrial, commercial, mining or agricultural activities; and
- The material does not contain sulfidic ores or soils (as shown in Table 3), or any other wastes.

STEP 4: The material is not considered to possess hazardous characteristics.

STEP 5: The in-situ soils have been sampled and assessed by chemical analysis. The laboratory analysis results for all forty nine (49) soil samples collected recorded all concentrations at levels below the contaminant threshold (CT1) values specified in Table 1 of the Waste Classification Guidelines – Part 1: Classifying waste of New South Wales Environment protection Authority (EPA).

STEP 6: The material is composed of soils. Based on EnviroProtect's field observations, the material is considered to be non-putrescible.

Therefore, the natural soil material is classified as **virgin excavated natural material (VENM)**.

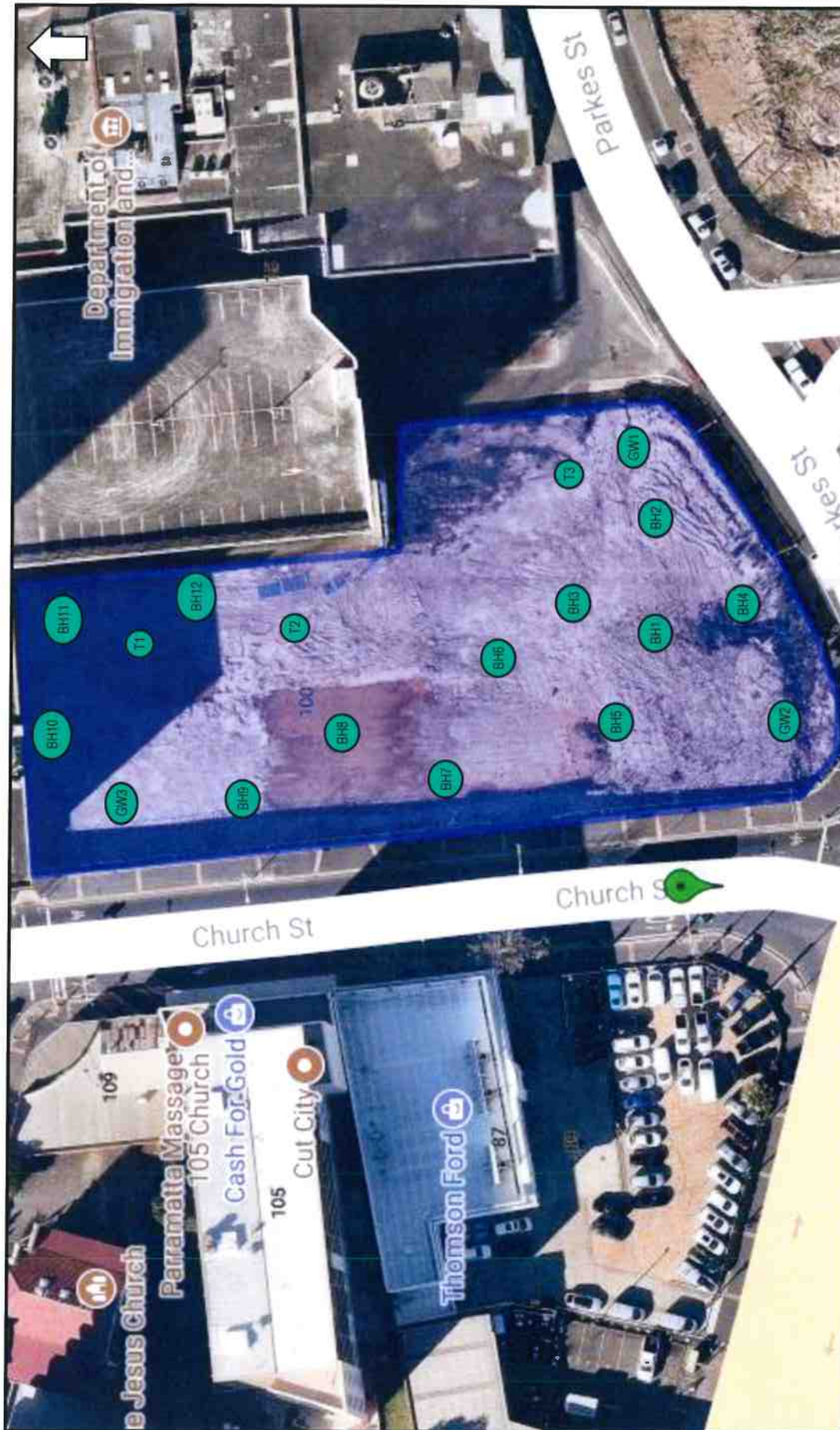
8 CONCLUSION

Based on the analytical results and observations made during fieldwork, the natural soil material on the site are classified as **virgin excavated natural material (VENM)**.

Please note:

- Please refer to sampling location plan attached.
- In the event any unexpected contamination is discovered during excavation works, it should be stockpiled separately or left *in situ* for inspection and further testing if required by Enviroprotect.

SAMPLING LOCATIONS



Client: N. Moit and Sons (NSW) Pty Ltd	Project / Location: 76-100 Church Street , Parramatta, Sydney	Drawing Title : Sampling Locations EV2262
EnviroProtect (Vic) Pty Ltd A.B.N. 39 079 041 366 Environmental Scientists		
Site boundary  Soil sampling locations 		
Sampling date: 27/11/17		



 EnviroProtect (Vic) Pty Ltd A.B.N. 39 079 041 366 Environmental Scientists		Client: N. Moit and Sons (NSW) Pty Ltd	Project / Location: 76-100 Church Street, Parramatta, Sydney	Drawing Title : Sampling Locations EV2349
		 Site boundary  Soil sampling locations		Sampling date: 28/03/18

ANALYTICAL RESULTS TABLES

ANALYTICAL RESULTS**Table 4 – Analytical Results for inorganic constituents (Fluoride, Cyanide & Heavy Metals) (1/2)**

Sample No.	Sampling date	pH	Fluoride	Cyanide	Arsenic (As)	Cadmium (Cd)	Silver (Ag)	Chromium	Chromium (VI)	Copper (Cu)	Mercury (Hg)	Molybdenum (Mo)	Nickel (Ni)	Lead (Pb)	Selenium (Se)	Zinc (Zn)
EV2262-BH1-2.5	27/11/17				13	<0.4	<0.2	29		19	<0.1	<5	<5	24	<2	11
EV2262-BH2-0.5	27/11/17				11	<0.4	<0.2	23		20	<0.1	<5	<5	21	<2	14
EV2262-BH2-2.4	27/11/17	6.8	420	<5	16	<0.4	<0.2	9.7	<1	22	<0.1	<5	<5	23	<2	9.1
EV2262-BH2-4.0	27/11/17				3.9	<0.4	<0.2	7.8		8.9	<0.1	<5	5.8	7.2	<2	36
EV2262-BH2-5.3	27/11/17				11	<0.4	<0.2	9.7		31	<0.1	<5	51	19	<2	210
EV2262-GW1-0.6	27/11/17				14	<0.4		27		20	<0.1		<5	24		12
EV2262-GW1-2.6	27/11/17				8	<0.4		9.5		15	<0.1		<5	13		6.8
EV2262-GW1-4.2	27/11/17				3.4	<0.4		7.8		9.1	<0.1		6.4	6.5		42
EV2262-BH3-1.0	27/11/17				9.8	<0.4		20		17	<0.1		<5	20		5.7
EV2262-BH3-2.5	27/11/17				7.2	<0.4		8.1		14	<0.1		<5	11		8.5
EV2262-BH3-4.5	27/11/17				9.1	<0.4		8.1		53	<0.1		17	29		100
EV2262-BH4-3.0	27/11/17				15	<0.4		5.6		12	<0.1		<5	16		15
EV2262-BH4-4.8	27/11/17				31	<0.4	<0.2	19		22	<0.1	<5	<5	31	<2	24
EV2262-GW2-0.4	27/11/17				16	<0.4		34		34	0.2		14	100		57
EV2262-GW2-1.2	27/11/17				13	<0.4		29		15	<0.1		7	24		13
EV2262-GW2-3.0	27/11/17				6.8	<0.4		5.4		8.8	<0.1		<5	12		9.8
EV2262-GW2-4.5	27/11/17				9	<0.4		11		24	<0.1		12	22		50
EV2262-BH5-0.4	27/11/17				13	<0.4	<0.2	22		19	<0.1	<5	5.9	24	<2	22
EV2262-BH5-2.8	27/11/17				7.8	<0.4		9.7		15	<0.1		<5	13		17
EV2262-BH6-0.9	27/11/17				11	<0.4	<0.2	13		19	<0.1	<5	<5	21	<2	14
EV2262-BH6-2.8	27/11/17				5.4	<0.4		11	<1	35	<0.1		<5	18	<2	23
EV2262-BH7-1.2	27/11/17				3.7	<0.4		10		35	<0.1		28	22		120
EV2262-BH7-3.3	27/11/17				3.6	<0.4	<0.2	7.3		24	<0.1	<5	6	15	<2	39
EV2262-BH8-1.4	27/11/17	7.6	280	<5	5	<0.4	<0.2	7	<1	29	<0.1	<5	5.3	18	<2	44
EV2262-BH8-2.9	27/11/17				5.3	<0.4	<0.2	6.9		22	<0.1	<5	<5	13	<2	18
EV2262-BH9-0.6	27/11/17				9.1	<0.4	<0.2	8.3		25	<0.1		<5	21		25
EV2262-BH9-2.7	27/11/17				6.7	<0.4	<0.2	8.8		30	<0.1	<5	6.6	15	<2	49
EV2262-GW3-0.8	27/11/17				4.4	<0.4		9.2		38	<0.1		11	22		67
EV2262-GW3-2.0	27/11/17				7.4	<0.4		10		28	<0.1		5.4	19		38
EV2262-GW3-4.0	27/11/17				4.1	<0.4		7.4		38	<0.1		16	17		85
NSW 2014 General Solid Waste (without TCLP)		NA	3,000	320	100	20	100	NA	100	NA	4	100	40	100	20	NA
NSW 2014 Restricted Solid Waste (without TCLP)		NA	12,000	1,280	400	80	400	NA	400	NA	16	400	160	400	80	NA
NSW 2014 General Solid Waste (with TCLP)		NA	10,000	5,900	500	100	180	NA	1,900	NA	50	1,000	1,050	1,500	50	NA
NSW 2014 Restricted Solid Waste (with TCLP)		NA	40,000	23,600	2,000	400	720	NA	7,600	NA	200	4,000	4,200	5,000	200	NA

All results are expressed in mg/Kg

ANALYTICAL RESULTS

Table 4 – Analytical Results for inorganic constituents (Fluoride, Cyanide & Heavy Metals) (2/2)

Sample No.	Sampling date	pH	Fluoride	Cyanide	Arsenic (As)	Cadmium (Cd)	Silver (Ag)	Chromium (Cr)	Chromium (VI)	Copper (Cu)	Mercury (Hg)	Molybdenum (Mo)	Nickel (Ni)	Lead (Pb)	Selenium (Se)	Zinc (Zn)
EV2262-BH10-0.6	27/11/17				7.5	<0.4		9.8	<1	42	<0.1		7.6	15	<2	57
EV2262-BH10-2.8	27/11/17				6.5	<0.4	<0.2	10		54	<0.1	<5	27	19	<2	140
EV2262-BH11-0.5	27/11/17				5.1	<0.4	<0.2	9		40	<0.1	<5	15	15	<2	110
EV2262-BH11-3.2	27/11/17				6.6	<0.4		11		50	<0.1		29	24		190
EV2262-BH12-0.7	27/11/17				8	<0.4	<0.2	13		40	<0.1	<5	18	39	<2	84
EV2262-BH12-2.6	27/11/17				7.4	<0.4	<0.2	11		49	<0.1	<5	19	23	<2	100
EV2262-T1-0.8	27/11/17				7.2	<0.4	<0.2	12		43	<0.1	<5	12	26	<2	73
EV2262-T1-3.2	27/11/17				4.3	<0.4	<0.2	6.9		33	<0.1	<5	8.1	15	<2	55
EV2262-T2-0.4	27/11/17				5.9	<0.4		8.2		23	<0.1		<5	15		13
EV2262-T2-2.9	27/11/17				6.9	<0.4		8.8		30	<0.1		<5	14		28
EV2262-T3-0.9	27/11/17				16	<0.4		24		21	<0.1		<5	24		11
EV2262-T3-2.9	27/11/17				6.3	<0.4		14		12	<0.1		<5	12		<5
EV2262-T3-4.8	27/11/17				6.7	<0.4		6.5		17	<0.1		<5	17		39
EV2262-DP1	27/11/17				4.4	<0.4		9.5		25	<0.1		<5	22		25
EV2262-DP2	27/11/17				6.8	<0.4		13		49	<0.1		29	24		170
EV2262-DP3	27/11/17				11	<0.4		29		21	<0.1		7.4	23		24
EV2262-SP1*	27/11/17				<4	<0.4		4		22	<0.1		2	19		17
EV2262-SP2*	27/11/17				5	<0.4		6		39	<0.1		20	16		140
EV2262-SP3*	27/11/17				9	<0.4		16		14	<0.1		2	16		10
NSW 2014 General Solid Waste (without TCLP)	NA	NA	3,000	320	100	20	100	NA	100	NA	4	100	40	100	20	NA
NSW 2014 Restricted Solid Waste (without TCLP)	NA	NA	12,000	1,280	400	80	400	NA	400	NA	16	400	160	400	80	NA
NSW 2014 General Solid Waste (with TCLP)	NA	NA	10,000	5,900	500	100	180	NA	1,900	NA	50	1,000	1,050	1,500	50	NA
NSW 2014 Restricted Solid Waste (with TCLP)	NA	NA	40,000	23,500	2,000	400	720	NA	7,500	NA	200	4,000	4,200	6,000	500	NA

All results are expressed in mg/Kg

KEY		
▲	Soil containing PCBs must be managed in accordance with the EPA's polychlorinated biphenyl (PCB) chemical control order 1997.	Analytical results, which are shaded yellow exceed Restricted Solid Waste threshold (without TCLP) shown in Table 1 of EPA-NSW (2014).
	Analytical results, which are shaded green exceed General Solid Waste threshold (without TCLP) shown in Table 1 of EPA-NSW (2014).	Analytical results, which are shaded orange exceed General Solid Waste threshold (with TCLP) shown in Table 2 of EPA-NSW (2014).
*	Total refers to the sum of 16 USEPA Priority Pollutant PAHs.	Analytical results, which are shaded red exceed Restricted Solid Waste threshold (with TCLP) shown in Table 2 of EPA-NSW (2014).

ANALYTICAL RESULTS**Table 5 – Analytical Results for organic soil contaminants (TPH, MAH & PAH) (1/2)**

Sample No	Sampling date	MAH			Total	PAH		TPH			
		Benzene	Toluene	Ethylbenzene		Total*	Benzo(a) Pyrene	C ₅ – C ₉	C ₁₀ – C ₁₄	C ₁₅ – C ₂₈	C ₂₉ – C ₃₆
EV2262-BH1-2.5	27/11/17										
EV2262-BH2-0.5	27/11/17										
EV2262-BH2-2.4	27/11/17										
EV2262-BH2-4.0	27/11/17										
EV2262-BH2-5.3	27/11/17										
EV2262-GW1-0.6	27/11/17	<0.1	<0.1	<0.1	<0.3			<20	<20	<50	<50
EV2262-GW1-2.6	27/11/17	<0.1	<0.1	<0.1	<0.3			<20	<20	<50	<50
EV2262-GW1-4.2	27/11/17	<0.1	<0.1	<0.1	<0.3			<20	<20	<50	<50
EV2262-BH3-1.0	27/11/17	<0.1	<0.1	<0.1	<0.3	<0.5	<0.5	<20	<20	<50	<50
EV2262-BH3-2.5	27/11/17	<0.1	<0.1	<0.1	<0.3	<0.5	<0.5	<20	<20	<50	<50
EV2262-BH3-4.5	27/11/17	<0.1	<0.1	<0.1	<0.3	<0.5	<0.5	<20	<20	<50	<50
EV2262-BH4-3.0	27/11/17	<0.1	<0.1	<0.1	<0.3			<20	<20	<50	<50
EV2262-BH4-4.8	27/11/17										
EV2262-GW2-0.4	27/11/17	<0.1	<0.1	<0.1	<0.3			<20	<20	<50	<50
EV2262-GW2-1.2	27/11/17	<0.1	<0.1	<0.1	<0.3			<20	<20	<50	<50
EV2262-GW2-3.0	27/11/17	<0.1	<0.1	<0.1	<0.3			<20	<20	<50	<50
EV2262-GW2-4.5	27/11/17	<0.1	<0.1	<0.1	<0.3			<20	<20	<50	<50
EV2262-BH5-0.4	27/11/17					<0.5	<0.5	<20	<20	<50	<50
EV2262-BH5-2.8	27/11/17	<0.1	<0.1	<0.1	<0.3			<20	<20	<50	<50
EV2262-BH6-0.9	27/11/17					<0.5	<0.5				
EV2262-BH6-2.8	27/11/17					<0.5	<0.5				
EV2262-BH7-1.2	27/11/17	<0.1	<0.1	<0.1	<0.3			<20	<20	<50	<50
EV2262-BH7-3.3	27/11/17										
EV2262-BH8-1.4	27/11/17										
EV2262-BH8-2.9	27/11/17					<0.5	<0.5	<20	<20	<50	<50
EV2262-BH9-0.6	27/11/17	<0.1	<0.1	<0.1	<0.3			<20	<20	<50	<50
EV2262-BH9-2.7	27/11/17										
EV2262-GW3-0.8	27/11/17	<0.1	<0.1	<0.1	<0.3			<20	<20	<50	<50
EV2262-GW3-2.0	27/11/17	<0.1	<0.1	<0.1	<0.3			<20	<20	<50	<50
EV2262-GW3-4.0	27/11/17	<0.1	<0.1	<0.1	<0.3			<20	<20	<50	<50
NSW 2014 General Solid Waste (without TCLP)		10	265	500	1,000	200	0.8	650	10,000	10,000	10,000
NSW 2014 Restricted Solid Waste (without TCLP)		40	1,152	2,400	4,000	800	3.2	2,600	40,000	40,000	40,000
NSW 2014 General Solid Waste (with TCLP)		18	518	1,080	1,800	200	10	650	10,000	10,000	10,000
NSW 2014 Restricted Solid Waste (with TCLP)		72	2,073	4,320	7,200	800	23	2,500	40,000	40,000	40,000

All results are expressed in mg/kg

ANALYTICAL RESULTS**Table 5 – Analytical Results for organic soil contaminants (TPH, MAH & PAH) (2/2)**

Sample No	Sampling date	MAH				PAH		TPH				
		Benzene	Toluene	Ethylbenzene	Xylenes	Total	Total*	Benzo(a) Pyrene	C ₅ – C ₉	C ₁₀ -C ₁₄	C ₁₅ -C ₂₈	C ₂₉ -C ₃₆
EV2262-BH10-0.6	27/11/17						<0.5	<0.5				
EV2262-BH10-2.8	27/11/17											
EV2262-BH11-0.5	27/11/17											
EV2262-BH11-3.2	27/11/17	<0.1	<0.1		<0.3	<0.3			<20	<20	<50	<50
EV2262-BH12-0.7	27/11/17						<0.5	<0.5				
EV2262-BH12-2.6	27/11/17											
EV2262-T1-0.8	27/11/17											
EV2262-T1-3.2	27/11/17											
EV2262-T2-0.4	27/11/17	<0.1	<0.1	<0.1	<0.3	<0.3	<0.5	<0.5	<20	<20	<50	<50
EV2262-T2-2.9	27/11/17	<0.1	<0.1	<0.1	<0.3	<0.3	<0.5	<0.5	<20	<20	<50	<50
EV2262-T3-0.9	27/11/17	<0.1	<0.1	<0.1	<0.3	<0.3	<0.5	<0.5	<20	<20	<50	<50
EV2262-T3-2.9	27/11/17	<0.1	<0.1	<0.1	<0.3	<0.3	<0.5	<0.5	<20	<20	<50	<50
EV2262-T3-4.8	27/11/17	<0.1	<0.1	<0.1	<0.3	<0.3	<0.5	<0.5	<20	<20	<50	<50
EV2262-DP1	27/11/17	<0.1	<0.1	<0.1	<0.3	<0.3			<20	<20	<50	<50
EV2262-DP2	27/11/17	<0.1	<0.1	<0.1	<0.3	<0.3			<20	<20	<50	<50
EV2262-DP3	27/11/17	<0.1	<0.1	<0.1	<0.3	<0.3			<20	<20	<50	<50
EV2262-SP1*	27/11/17	<0.2	<0.5	<1	<1	<1			<25	<50	<100	<100
EV2262-SP2*	27/11/17	<0.2	<0.5	<1	<1	<1			<25	<50	<100	<100
EV2262-SP3*	27/11/17	<0.2	<0.5	<1	<1	<1			<25	<50	<100	<100
NSW 2014 General Solid Waste (without TCLP)		10	288	600	1,000	NA	200	0.8	650	<100	40,000	
NSW 2014 Restricted Solid Waste (without TCLP)		40	1,152	2,400	4,000	NA	800	3.2	2,600	<100	40,000	
NSW 2014 General Solid Waste (with TCLP)		18	518	1,080	1,800	NA	200	10	650	<100	10,000	
NSW 2014 Restricted Solid Waste (with TCLP)		72	2,073	4,320	7,200	NA	800	23	2,600	<100	40,000	

All results are expressed in mg/Kg

KEY		
▲	Soil containing PCBs must be managed in accordance with the EPA's polychlorinated biphenyl (PCB) chemical control order 1997.	Analytical results, which are shaded yellow exceed Restricted Solid Waste threshold (without TCLP) shown in Table 1 of EPA-NSW (2014).
■	Analytical results, which are shaded green exceed General Solid Waste threshold (without TCLP) shown in Table 1 of EPA-NSW (2014).	Analytical results, which are shaded orange exceed General Solid Waste threshold (with TCLP) shown in Table 2 of EPA-NSW (2014).
*	Total refers to the sum of 16 USEPA Priority Pollutant PAHs.	Analytical results, which are shaded red exceed Restricted Solid Waste threshold (with TCLP) shown in Table 2 of EPA-NSW (2014).

ANALYTICAL RESULTS**Table 6: Analytical Results for organic constituents (OCPs, PCBs, chlorinated hydrocarbons & Phenols) (1/2)**

Sample No. (Sample depths)	Sampling date	Dieldrin + Aldrin*	DDT + DDD + DDE*	Chlordane	Heptachlor	Total OCPs*	Total Other OCP's	Total PCBs	Phenols (Halogenated)*	Phenols (NonHalogenated)*	Vinyl chloride	Total* Chlorinated Hydrocarbons	Total other Chlorinated Hydrocarbons
EV2262-BH1-2.5	27/11/17												
EV2262-BH2-0.5	27/11/17												
EV2262-BH2-2.4	27/11/17	<0.05	<0.05	<0.1	<0.05	<0.1	<0.1	<0.1	<1	<20	<0.5	<0.5	<0.5
EV2262-BH2-4.0	27/11/17												
EV2262-BH2-5.3	27/11/17												
EV2262-GW1-0.6	27/11/17												
EV2262-GW1-2.6	27/11/17												
EV2262-GW1-4.2	27/11/17												
EV2262-BH3-1.0	27/11/17												
EV2262-BH3-2.5	27/11/17												
EV2262-BH3-4.5	27/11/17												
EV2262-BH4-3.0	27/11/17												
EV2262-BH4-4.8	27/11/17												
EV2262-GW2-0.4	27/11/17												
EV2262-GW2-1.2	27/11/17												
EV2262-GW2-3.0	27/11/17												
EV2262-GW2-4.5	27/11/17												
EV2262-BH5-0.4	27/11/17												
EV2262-BH5-2.8	27/11/17												
EV2262-BH6-0.9	27/11/17							<0.1					
EV2262-BH6-2.8	27/11/17												
EV2262-BH7-1.2	27/11/17												
EV2262-BH7-3.3	27/11/17												
EV2262-BH8-1.4	27/11/17	<0.05	<0.05	<0.1	<0.05	<0.1	<0.1	<0.1	<1	<20	<0.5	<0.5	<0.5
EV2262-BH8-2.9	27/11/17												
EV2262-BH9-0.6	27/11/17												
EV2262-BH9-2.7	27/11/17										<0.5	<0.5	<0.5
EV2262-GW3-0.8	27/11/17												
EV2262-GW3-2.0	27/11/17												
EV2262-GW3-4.0	27/11/17												
NSW 2014 General Solid Waste (without TCLP)		NA	NA	NA	NA	NA	NA	<50	NA	288	4	NA	NA
NSW 2014 Restricted Solid Waste (without TCLP)		NA	NA	NA	NA	NA	NA	<50	NA	1,152	16	NA	NA
NSW 2014 General Solid Waste (with TCLP)		NA	NA	NA	NA	NA	NA	<50	NA	518	7.2	NA	NA
NSW 2014 Restricted Solid Waste (with TCLP)		NA	NA	NA	NA	NA	NA	<50	NA	2,073	28.8	NA	NA

All results are expressed in mg/kg

KEY			
▲	Soil containing PCBs must be managed in accordance with the EPA's polychlorinated biphenyl (PCB) chemical control order 1997.		Analytical results, which are shaded yellow exceed Restricted Solid Waste threshold (without TCLP) shown in Table 1 of EPA-NSW (2014).
	Analytical results, which are shaded green exceed General Solid Waste threshold (without TCLP) shown in Table 1 of EPA-NSW (2014).		Analytical results, which are shaded orange exceed General Solid Waste threshold (with TCLP) shown in Table 2 of EPA-NSW (2014).
*	Total refers to the sum of 16 USEPA Priority Pollutant PAHs.		Analytical results, which are shaded red exceed Restricted Solid Waste threshold (with TCLP) shown in Table 2 of EPA-NSW (2014).

ANALYTICAL RESULTS**Table 6: Analytical Results for organic constituents (OCPs, PCBs, chlorinated hydrocarbons & Phenols) (2/2)**

Sample No. (Sample depths)	Sampling date	Dieldrin + Aldrin*	DDT + DDD + DDE*	Chlordane	Heptachlor	Total OCPs*	Total Other OCP's	Total PCBs	Phenols (Halogenated)*	Phenols (NonHalogenated)*	Vinyl chloride	Total* Chlorinated Hydrocarbons	Total other Chlorinated Hydrocarbons
EV2262-BH10-0.6	27/11/17							<0.1			<0.5	<0.5	<0.5
EV2262-BH10-2.8	27/11/17												
EV2262-BH11-0.5	27/11/17												
EV2262-BH11-3.2	27/11/17												
EV2262-BH12-0.7	27/11/17												
EV2262-BH12-2.6	27/11/17												
EV2262-T1-0.8	27/11/17							<0.1					
EV2262-T1-3.2	27/11/17							<0.1					
EV2262-T2-0.4	27/11/17												
EV2262-T2-2.9	27/11/17												
EV2262-T3-0.9	27/11/17												
EV2262-T3-2.9	27/11/17												
EV2262-T3-4.8	27/11/17												
EV2262-DP1	27/11/17												
EV2262-DP2	27/11/17												
EV2262-DP3	27/11/17												
EV2262-SP1*	27/11/17												
EV2262-SP2*	27/11/17												
EV2262-SP3*	27/11/17												
NSW 2014 General Solid Waste (without TCLP)		NA	NA	NA	NA	NA	NA	<50	NA	288	4	NA	NA
NSW 2014 Restricted Solid Waste (without TCLP)		NA	NA	NA	NA	NA	NA	<50	NA	1,152	16	NA	NA
NSW 2014 General Solid Waste (with TCLP)		NA	NA	NA	NA	NA	NA	<50	NA	518	7.2	NA	NA
NSW 2014 Restricted Solid Waste (with TCLP)		NA	NA	NA	NA	NA	NA	<50	NA	2,073	28.8	NA	NA

All results are expressed in mg/kg

KEY			
▲	Soil containing PCBs must be managed in accordance with the EPA's polychlorinated biphenyl (PCB) chemical control order 1997.		Analytical results, which are shaded yellow exceed Restricted Solid Waste threshold (without TCLP) shown in Table 1 of EPA-NSW (2014).
	Analytical results, which are shaded green exceed General Solid Waste threshold (without TCLP) shown in Table 1 of EPA-NSW (2014).		Analytical results, which are shaded orange exceed General Solid Waste threshold (with TCLP) shown in Table 2 of EPA-NSW (2014).
*	Total refers to the sum of 16 USEPA Priority Pollutant PAHs.		Analytical results, which are shaded red exceed Restricted Solid Waste threshold (with TCLP) shown in Table 2 of EPA-NSW (2014).

ANALYTICAL REPORT AND CHAIN OF CUSTODY

Certificate of Analysis

EnviroProtect (VIC) Pty Ltd
298 Kororoit Creek Rd
Williamstown
VIC 3016



NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or
measurements included in this document are traceable
to Australian/national standards.

Attention: -Alex Sepulveda

Report 575193-S
Project name 76-100 CHURCH ST PARRAMATTA NSW
Project ID EV2262
Received Date Nov 29, 2017

Client Sample ID			EV2262-BH1-0.7	EV2262-BH1-2.5	EV2262-BH2-0.5	EV2262-BH2-2.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			M17-De00191	M17-De00192	M17-De00193	M17-De00194
Date Sampled			Nov 27, 2017	Nov 27, 2017	Nov 27, 2017	Nov 27, 2017
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	-	-	< 20
TRH C10-C14	20	mg/kg	-	-	-	< 20
TRH C15-C28	50	mg/kg	-	-	-	< 50
TRH C29-C36	50	mg/kg	-	-	-	< 50
TRH C10-36 (Total)	50	mg/kg	-	-	-	< 50
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2.4-Trichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
Hexachlorobutadiene	0.5	mg/kg	-	-	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	-	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	-	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	-	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	-	< 0.5
Allyl chloride	0.5	mg/kg	-	-	-	< 0.5
Benzene	0.1	mg/kg	-	-	-	< 0.1
Bromobenzene	0.5	mg/kg	-	-	-	< 0.5
Bromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromodichloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromoform	0.5	mg/kg	-	-	-	< 0.5
Bromomethane	0.5	mg/kg	-	-	-	< 0.5

Client Sample ID			EV2262-BH1-0.7	EV2262-BH1-2.5	EV2262-BH2-0.5	EV2262-BH2-2.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			M17-De00191	M17-De00192	M17-De00193	M17-De00194
Date Sampled			Nov 27, 2017	Nov 27, 2017	Nov 27, 2017	Nov 27, 2017
Test/Reference	LOR	Unit				
Volatile Organics						
Carbon disulfide	0.5	mg/kg	-	-	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	-	-	< 0.5
Chlorobenzene	0.5	mg/kg	-	-	-	< 0.5
Chloroethane	0.5	mg/kg	-	-	-	< 0.5
Chloroform	0.5	mg/kg	-	-	-	< 0.5
Chloromethane	0.5	mg/kg	-	-	-	< 0.5
cis-1,2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
cis-1,3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Dibromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Dibromomethane	0.5	mg/kg	-	-	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	-	-	< 0.5
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
Iodomethane	0.5	mg/kg	-	-	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	-	< 0.5
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
Methylene Chloride	0.5	mg/kg	-	-	-	< 0.5
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Styrene	0.5	mg/kg	-	-	-	< 0.5
Tetrachloroethene	0.5	mg/kg	-	-	-	< 0.5
Toluene	0.1	mg/kg	-	-	-	< 0.1
trans-1,2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
trans-1,3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Trichloroethene	0.5	mg/kg	-	-	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	-	-	< 0.5
Vinyl chloride	0.5	mg/kg	-	-	-	< 0.5
Xylenes - Total	0.3	mg/kg	-	-	-	< 0.3
Total MAH*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	-	-	105
Toluene-d8 (surr.)	1	%	-	-	-	94
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	-	-	-	< 0.5
TRH C6-C10	20	mg/kg	-	-	-	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	-	-	< 20
TRH >C10-C16	50	mg/kg	-	-	-	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	-	-	< 50
TRH >C16-C34	100	mg/kg	-	-	-	< 100
TRH >C34-C40	100	mg/kg	-	-	-	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	4.4	-	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	4.4	-	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	4.4	-	-	1.2
Acenaphthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Acenaphthylene	0.5	mg/kg	0.5	-	-	< 0.5
Anthracene	0.5	mg/kg	2.0	-	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	2.9	-	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	2.8	-	-	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	2.0	-	-	< 0.5

Client Sample ID			EV2262-BH1-0.7	EV2262-BH1-2.5	EV2262-BH2-0.5	EV2262-BH2-2.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			M17-De00191	M17-De00192	M17-De00193	M17-De00194
Date Sampled			Nov 27, 2017	Nov 27, 2017	Nov 27, 2017	Nov 27, 2017
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(g,h,i)perylene	0.5	mg/kg	1.3	-	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	2.1	-	-	< 0.5
Chrysene	0.5	mg/kg	3.2	-	-	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	0.7	-	-	< 0.5
Fluoranthene	0.5	mg/kg	7.7	-	-	< 0.5
Fluorene	0.5	mg/kg	0.5	-	-	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	1.3	-	-	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	-	< 0.5
Phenanthrene	0.5	mg/kg	6.2	-	-	< 0.5
Pyrene	0.5	mg/kg	7.3	-	-	< 0.5
Total PAH*	0.5	mg/kg	40.5	-	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	90	-	-	95
p-Terphenyl-d14 (surr.)	1	%	85	-	-	96
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	-	< 0.1
4,4'-DDD	0.05	mg/kg	-	-	-	< 0.05
4,4'-DDE	0.05	mg/kg	-	-	-	< 0.05
4,4'-DDT	0.05	mg/kg	-	-	-	< 0.05
a-BHC	0.05	mg/kg	-	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	-	< 0.05
b-BHC	0.05	mg/kg	-	-	-	< 0.05
d-BHC	0.05	mg/kg	-	-	-	< 0.05
Dieldrin	0.05	mg/kg	-	-	-	< 0.05
Endosulfan I	0.05	mg/kg	-	-	-	< 0.05
Endosulfan II	0.05	mg/kg	-	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	-	< 0.05
Endrin	0.05	mg/kg	-	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	-	< 0.05
Endrin ketone	0.05	mg/kg	-	-	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	-	< 0.05
Methoxychlor	0.05	mg/kg	-	-	-	< 0.05
Toxaphene	1	mg/kg	-	-	-	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchloroendate (surr.)	1	%	-	-	-	93
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	97
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1221	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1232	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1242	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1248	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1254	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1260	0.1	mg/kg	-	-	-	< 0.1

Client Sample ID			EV2262-BH1-0.7	EV2262-BH1-2.5	EV2262-BH2-0.5	EV2262-BH2-2.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			M17-De00191	M17-De00192	M17-De00193	M17-De00194
Date Sampled			Nov 27, 2017	Nov 27, 2017	Nov 27, 2017	Nov 27, 2017
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Total PCB*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	-	-	93
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	97
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	-	-	-	< 0.5
2,4-Dichlorophenol	0.5	mg/kg	-	-	-	< 0.5
2,4,5-Trichlorophenol	1.0	mg/kg	-	-	-	< 1
2,4,6-Trichlorophenol	1.0	mg/kg	-	-	-	< 1
2,6-Dichlorophenol	0.5	mg/kg	-	-	-	< 0.5
4-Chloro-3-methylphenol	1.0	mg/kg	-	-	-	< 1
Pentachlorophenol	1.0	mg/kg	-	-	-	< 1
Tetrachlorophenols - Total	1.0	mg/kg	-	-	-	< 1
Total Halogenated Phenol*	1	mg/kg	-	-	-	< 1
Phenols (non-Halogenated)						
2-Cyclohexyl-4,6-dinitrophenol	20	mg/kg	-	-	-	< 20
2-Methyl-4,6-dinitrophenol	5	mg/kg	-	-	-	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	-	-	< 0.2
2-Nitrophenol	1.0	mg/kg	-	-	-	< 1
2,4-Dimethylphenol	0.5	mg/kg	-	-	-	< 0.5
2,4-Dinitrophenol	5	mg/kg	-	-	-	< 5
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	-	-	< 0.4
4-Nitrophenol	5	mg/kg	-	-	-	< 5
Dinoseb	20	mg/kg	-	-	-	< 20
Phenol	0.5	mg/kg	-	-	-	< 0.5
Total Non-Halogenated Phenol*	20	mg/kg	-	-	-	< 20
Phenol-d6 (surr.)	1	%	-	-	-	106
% Clay	1	%	-	-	40	-
Chromium (hexavalent)	1	mg/kg	-	-	-	< 1
Conductivity (1:5 aqueous extract at 25°C)	10	uS/cm	-	-	130	-
Cyanide (total)	5	mg/kg	-	-	-	< 5
Fluoride	100	mg/kg	-	-	-	420
pH (1:5 Aqueous extract)	0.1	pH Units	-	-	-	6.8
pH (units)(1:5 soil:CaCl2 extract)	0.1	pH Units	-	-	5.0	-
Total Organic Carbon	0.1	%	-	-	0.3	-
% Moisture	1	%	9.4	20	21	20
Heavy Metals						
Arsenic	2	mg/kg	11	13	11	16
Cadmium	0.4	mg/kg	0.6	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	24	29	23	9.7
Copper	5	mg/kg	32	19	20	22
Iron	20	mg/kg	-	-	52000	-
Lead	5	mg/kg	230	24	21	23
Mercury	0.1	mg/kg	0.3	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	10	< 5	< 5	< 5
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2

Client Sample ID			EV2262-BH1-0.7	EV2262-BH1-2.5	EV2262-BH2-0.5	EV2262-BH2-2.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			M17-De00191	M17-De00192	M17-De00193	M17-De00194
Date Sampled			Nov 27, 2017	Nov 27, 2017	Nov 27, 2017	Nov 27, 2017
Test/Reference	LOR	Unit				
Heavy Metals						
Tin	10	mg/kg	13	< 10	< 10	< 10
Zinc	5	mg/kg	430	11	14	9.1
Heavy Metals						
Iron (%)	0.01	%	-	-	5.2	-
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	-	-	12	-

Client Sample ID			EV2262-BH2-4.0	EV2262-BH2-5.3	EV2262-GW1-0.6	EV2262-GW1-2.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			M17-De00195	M17-De00196	M17-De00197	M17-De00198
Date Sampled			Nov 27, 2017	Nov 27, 2017	Nov 27, 2017	Nov 27, 2017
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	-	< 20	< 20
TRH C10-C14	20	mg/kg	-	-	< 20	< 20
TRH C15-C28	50	mg/kg	-	-	< 50	< 50
TRH C29-C36	50	mg/kg	-	-	< 50	< 50
TRH C10-36 (Total)	50	mg/kg	-	-	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	-	-	< 0.1	< 0.1
Toluene	0.1	mg/kg	-	-	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	-	-	< 0.1	< 0.1
Xylenes - Total	0.3	mg/kg	-	-	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	-	91	96
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	-	-	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	-	-	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	-	< 20	< 20
TRH >C10-C16	50	mg/kg	-	-	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	-	< 50	< 50
TRH >C16-C34	100	mg/kg	-	-	< 100	< 100
TRH >C34-C40	100	mg/kg	-	-	< 100	< 100
Sulphate (as SO4)	30	mg/kg	-	150	-	-
% Moisture	1	%	14	15	22	20
Heavy Metals						
Arsenic	2	mg/kg	3.9	11	14	8.0
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	7.8	9.7	27	9.5
Copper	5	mg/kg	8.9	31	20	15
Lead	5	mg/kg	7.2	19	24	13
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	-	-
Nickel	5	mg/kg	5.8	51	< 5	< 5

Client Sample ID			EV2262-BH2-4.0	EV2262-BH2-5.3	EV2262-GW1-0.6	EV2262-GW1-2.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			M17-De00195	M17-De00196	M17-De00197	M17-De00198
Date Sampled			Nov 27, 2017	Nov 27, 2017	Nov 27, 2017	Nov 27, 2017
Test/Reference	LOR	Unit				
Heavy Metals						
Selenium	2	mg/kg	< 2	< 2	-	-
Silver	0.2	mg/kg	< 0.2	< 0.2	-	-
Tin	10	mg/kg	< 10	< 10	-	-
Zinc	5	mg/kg	36	210	12	6.8

Client Sample ID			EV2262-GW1-4.2	EV2262-BH3-1.0	EV2262-BH3-2.5	EV2262-BH3-4.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			M17-De00199	M17-De00200	M17-De00201	M17-De00202
Date Sampled			Nov 27, 2017	Nov 27, 2017	Nov 27, 2017	Nov 27, 2017
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	100	94	94	87
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5

Client Sample ID			EV2262-GW1-4.2	EV2262-BH3-1.0	EV2262-BH3-2.5	EV2262-BH3-4.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			M17-De00199	M17-De00200	M17-De00201	M17-De00202
Date Sampled			Nov 27, 2017	Nov 27, 2017	Nov 27, 2017	Nov 27, 2017
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	104	91	88
p-Terphenyl-d14 (surr.)	1	%	-	113	106	106
% Moisture	1	%	14	21	17	13
Heavy Metals						
Arsenic	2	mg/kg	3.4	9.8	7.2	9.1
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	7.8	20	8.1	8.1
Copper	5	mg/kg	9.1	17	14	53
Lead	5	mg/kg	6.5	20	11	29
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	6.4	< 5	< 5	17
Zinc	5	mg/kg	42	5.7	8.5	100

Client Sample ID			EV2262-BH4-0.4	EV2262-BH4-3.0	EV2262-BH4-4.8	EV2262-GW2-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			M17-De00203	M17-De00204	M17-De00205	M17-De00206
Date Sampled			Nov 27, 2017	Nov 27, 2017	Nov 27, 2017	Nov 27, 2017
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	-	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	-	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	-	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	-	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	< 50	-	< 50
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	-	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	< 0.2
o-Xylene	0.1	mg/kg	-	< 0.1	-	< 0.1
Xylenes - Total	0.3	mg/kg	-	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	94	-	59
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2.4-Trichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Hexachlorobutadiene	0.5	mg/kg	< 0.5	-	-	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-

Client Sample ID			EV2262-BH4-0.4	EV2262-BH4-3.0	EV2262-BH4-4.8	EV2262-GW2-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			M17-De00203	M17-De00204	M17-De00205	M17-De00206
Date Sampled			Nov 27, 2017	Nov 27, 2017	Nov 27, 2017	Nov 27, 2017
Test/Reference	LOR	Unit				
Volatile Organics						
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	-	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	-	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	-	-
Allyl chloride	0.5	mg/kg	< 0.5	-	-	-
Benzene	0.1	mg/kg	< 0.1	-	-	-
Bromobenzene	0.5	mg/kg	< 0.5	-	-	-
Bromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromodichloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromoform	0.5	mg/kg	< 0.5	-	-	-
Bromomethane	0.5	mg/kg	< 0.5	-	-	-
Carbon disulfide	0.5	mg/kg	< 0.5	-	-	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	-	-
Chlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Chloroethane	0.5	mg/kg	< 0.5	-	-	-
Chloroform	0.5	mg/kg	< 0.5	-	-	-
Chloromethane	0.5	mg/kg	< 0.5	-	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Dibromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Dibromomethane	0.5	mg/kg	< 0.5	-	-	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
Iodomethane	0.5	mg/kg	< 0.5	-	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
Methylene Chloride	0.5	mg/kg	< 0.5	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Styrene	0.5	mg/kg	< 0.5	-	-	-
Tetrachloroethene	0.5	mg/kg	< 0.5	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Trichloroethene	0.5	mg/kg	< 0.5	-	-	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	-	-
Vinyl chloride	0.5	mg/kg	< 0.5	-	-	-
Xylenes - Total	0.3	mg/kg	< 0.3	-	-	-
Total MAH*	0.5	mg/kg	< 0.5	-	-	-

Client Sample ID			EV2262-BH4-0.4	EV2262-BH4-3.0	EV2262-BH4-4.8	EV2262-GW2-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			M17-De00203	M17-De00204	M17-De00205	M17-De00206
Date Sampled			Nov 27, 2017	Nov 27, 2017	Nov 27, 2017	Nov 27, 2017
Test/Reference	LOR	Unit				
Volatile Organics						
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
4-Bromofluorobenzene (surr.)	1	%	114	-	-	-
Toluene-d8 (surr.)	1	%	103	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	-	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	-	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	-	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	-	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	-	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	-	-
Acenaphthene	0.5	mg/kg	< 0.5	-	-	-
Acenaphthylene	0.5	mg/kg	< 0.5	-	-	-
Anthracene	0.5	mg/kg	< 0.5	-	-	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	-	-
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	-	-	-
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	-	-	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	-	-
Chrysene	0.5	mg/kg	< 0.5	-	-	-
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	-	-	-
Fluoranthene	0.5	mg/kg	0.6	-	-	-
Fluorene	0.5	mg/kg	< 0.5	-	-	-
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	-	-	-
Naphthalene	0.5	mg/kg	< 0.5	-	-	-
Phenanthrene	0.5	mg/kg	< 0.5	-	-	-
Pyrene	0.5	mg/kg	0.7	-	-	-
Total PAH*	0.5	mg/kg	1.3	-	-	-
2-Fluorobiphenyl (surr.)	1	%	88	-	-	-
p-Terphenyl-d14 (surr.)	1	%	87	-	-	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	-
4,4'-DDD	0.05	mg/kg	< 0.05	-	-	-
4,4'-DDE	0.05	mg/kg	< 0.05	-	-	-
4,4'-DDT	0.05	mg/kg	< 0.05	-	-	-
a-BHC	0.05	mg/kg	< 0.05	-	-	-
Aldrin	0.05	mg/kg	< 0.05	-	-	-
b-BHC	0.05	mg/kg	< 0.05	-	-	-
d-BHC	0.05	mg/kg	< 0.05	-	-	-
Dieldrin	0.05	mg/kg	< 0.05	-	-	-
Endosulfan I	0.05	mg/kg	< 0.05	-	-	-
Endosulfan II	0.05	mg/kg	< 0.05	-	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	-
Endrin	0.05	mg/kg	< 0.05	-	-	-

Client Sample ID			EV2262-BH4-0.4	EV2262-BH4-3.0	EV2262-BH4-4.8	EV2262-GW2-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			M17-De00203	M17-De00204	M17-De00205	M17-De00206
Date Sampled			Nov 27, 2017	Nov 27, 2017	Nov 27, 2017	Nov 27, 2017
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	-
Endrin ketone	0.05	mg/kg	< 0.05	-	-	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	-	-
Heptachlor	0.05	mg/kg	< 0.05	-	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	-
Methoxychlor	0.05	mg/kg	< 0.05	-	-	-
Toxaphene	1	mg/kg	< 1	-	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	-	-
Dibutylchlorodate (surr.)	1	%	125	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	137	-	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1232	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1242	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1248	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1254	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1260	0.1	mg/kg	< 0.1	-	-	-
Total PCB*	0.1	mg/kg	< 0.1	-	-	-
Dibutylchlorodate (surr.)	1	%	125	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	137	-	-	-
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	-	-	-
2,4-Dichlorophenol	0.5	mg/kg	< 0.5	-	-	-
2,4,5-Trichlorophenol	1.0	mg/kg	< 1	-	-	-
2,4,6-Trichlorophenol	1.0	mg/kg	< 1	-	-	-
2,6-Dichlorophenol	0.5	mg/kg	< 0.5	-	-	-
4-Chloro-3-methylphenol	1.0	mg/kg	< 1	-	-	-
Pentachlorophenol	1.0	mg/kg	< 1	-	-	-
Tetrachlorophenols - Total	1.0	mg/kg	< 1	-	-	-
Total Halogenated Phenol*	1	mg/kg	< 1	-	-	-
Phenols (non-Halogenated)						
2-Cyclohexyl-4,6-dinitrophenol	20	mg/kg	< 20	-	-	-
2-Methyl-4,6-dinitrophenol	5	mg/kg	< 5	-	-	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	-	-	-
2-Nitrophenol	1.0	mg/kg	< 1	-	-	-
2,4-Dimethylphenol	0.5	mg/kg	< 0.5	-	-	-
2,4-Dinitrophenol	5	mg/kg	< 5	-	-	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	-	-	-
4-Nitrophenol	5	mg/kg	< 5	-	-	-
Dinoseb	20	mg/kg	< 20	-	-	-
Phenol	0.5	mg/kg	< 0.5	-	-	-
Total Non-Halogenated Phenol*	20	mg/kg	< 20	-	-	-
Phenol-d6 (surr.)	1	%	92	-	-	-

Client Sample ID			EV2262-BH4-0.4	EV2262-BH4-3.0	EV2262-BH4-4.8	EV2262-GW2-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			M17-De00203	M17-De00204	M17-De00205	M17-De00206
Date Sampled			Nov 27, 2017	Nov 27, 2017	Nov 27, 2017	Nov 27, 2017
Test/Reference	LOR	Unit				
Chromium (hexavalent)	1	mg/kg	< 1	-	-	-
Cyanide (total)	5	mg/kg	< 5	-	-	-
Fluoride	100	mg/kg	< 100	-	-	-
pH (1:5 Aqueous extract)	0.1	pH Units	7.0	-	-	-
% Moisture	1	%	13	20	19	15
Heavy Metals						
Arsenic	2	mg/kg	14	15	31	16
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	21	5.6	19	34
Copper	5	mg/kg	41	12	22	34
Lead	5	mg/kg	170	16	31	100
Mercury	0.1	mg/kg	0.3	< 0.1	< 0.1	0.2
Molybdenum	5	mg/kg	< 5	-	< 5	-
Nickel	5	mg/kg	13	< 5	< 5	14
Selenium	2	mg/kg	< 2	-	< 2	-
Silver	0.2	mg/kg	< 0.2	-	< 0.2	-
Tin	10	mg/kg	19	-	< 10	-
Zinc	5	mg/kg	140	15	24	57

Client Sample ID			EV2262-GW2-1.2	EV2262-GW2-3.0	EV2262-GW2-4.5	EV2262-BH5-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			M17-De00207	M17-De00208	M17-De00209	M17-De00210
Date Sampled			Nov 27, 2017	Nov 27, 2017	Nov 27, 2017	Nov 27, 2017
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	-
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	-
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	-
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	-
TRH C10-36 (Total)	50	mg/kg	< 50	< 50	< 50	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	61	71	88	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	-
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	-
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	-
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	-

Client Sample ID			EV2262-GW2-1.2	EV2262-GW2-3.0	EV2262-GW2-4.5	EV2262-BH5-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			M17-De00207	M17-De00208	M17-De00209	M17-De00210
Date Sampled			Nov 27, 2017	Nov 27, 2017	Nov 27, 2017	Nov 27, 2017
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	-	1.2
Acenaphthene	0.5	mg/kg	-	-	-	< 0.5
Acenaphthylene	0.5	mg/kg	-	-	-	< 0.5
Anthracene	0.5	mg/kg	-	-	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	-	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	-	-	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	-	-	-	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	-	-	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	-	-	< 0.5
Chrysene	0.5	mg/kg	-	-	-	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	-	-	-	< 0.5
Fluoranthene	0.5	mg/kg	-	-	-	< 0.5
Fluorene	0.5	mg/kg	-	-	-	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	-	-	-	< 0.5
Naphthalene	0.5	mg/kg	-	-	-	< 0.5
Phenanthrene	0.5	mg/kg	-	-	-	< 0.5
Pyrene	0.5	mg/kg	-	-	-	< 0.5
Total PAH*	0.5	mg/kg	-	-	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	-	-	75
p-Terphenyl-d14 (surr.)	1	%	-	-	-	69
% Moisture	1	%	24	20	14	23
Heavy Metals						
Arsenic	2	mg/kg	13	6.8	9.0	13
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	29	5.4	11	22
Copper	5	mg/kg	15	8.8	24	19
Lead	5	mg/kg	24	12	22	24
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	-	-	-	< 5
Nickel	5	mg/kg	7.0	< 5	12	5.9
Selenium	2	mg/kg	-	-	-	< 2
Silver	0.2	mg/kg	-	-	-	< 0.2
Tin	10	mg/kg	-	-	-	< 10
Zinc	5	mg/kg	13	9.8	50	22

Client Sample ID			EV2262-BH5-2.8	EV2262-BH6-0.9	EV2262-BH6-2.8	EV2262-BH7-1.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			M17-De00211	M17-De00212	M17-De00213	M17-De00214
Date Sampled			Nov 27, 2017	Nov 27, 2017	Nov 27, 2017	Nov 27, 2017
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	-	< 20
TRH C10-C14	20	mg/kg	< 20	-	-	< 20
TRH C15-C28	50	mg/kg	< 50	-	-	< 50
TRH C29-C36	50	mg/kg	< 50	-	-	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	-	-	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	-	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	-	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	74	-	-	57
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	-	-	< 0.5
TRH C6-C10	20	mg/kg	< 20	-	-	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	-	-	< 20
TRH >C10-C16	50	mg/kg	< 50	-	-	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	-	-	< 50
TRH >C16-C34	100	mg/kg	< 100	-	-	< 100
TRH >C34-C40	100	mg/kg	< 100	-	-	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	1.2	-
Acenaphthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	< 0.5	< 0.5	-
Anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(g,h,i)perylene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Chrysene	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibenz(a,h)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5	-
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	-
Phenanthrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Total PAH*	0.5	mg/kg	-	< 0.5	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	-	104	99	-
p-Terphenyl-d14 (surr.)	1	%	-	111	108	-
Organochlorine Pesticides						
Bifenthrin	0.05	mg/kg	-	-	< 0.05	-
Organophosphorus Pesticides						
Chlorpyrifos	0.2	mg/kg	-	-	< 0.2	-