Environmental Resources Management Australia

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9 June 2011

Land Management Corporation
on behalf of the Department for Families and Communities
Level 9, Riverside Centre
ADELAIDE, 5000
AUSTRALIA

Our Reference: *0137051*

Attention: **Meredith Rasch**

Dear Meredith

RE: INTRUSIVE ENVIRONMENTAL INVESTIGATION AT THE STRATHMONT CENTRE, GRAND JUNCTION ROAD, NORTHFIELD, SOUTH AUSTRALIA.

1. INTRODUCTION

Environmental Resources Management Australia Pty Ltd (ERM) is pleased to provide this letter report to Land Management Corporation (LMC), on behalf of the Department for Families and Communities (DFC) detailing the outcomes of the targeted intrusive environmental investigation at the Strathmont Centre, Grand Junction Road, Northfield, South Australia (the Site).

The Location of the Site is shown on Figure 1 (*Attachmen*t A).

2. BACKGROUND

It is understood, DFC are considering potential divestment of the Strathmont centre for possible future residential use and as part of that process require an understanding of potential contamination issues on the Site.

Previous investigations on the Site include a Phase I Environmental Site Assessment (Site History) by GHD (December 2003). A number of potential issues of concern were identified in this report and include:

- Imported materials of unknown origin;
- Bulk fuel storage and dispensing;

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Offices worldwide

Quality System
Quality Endorsed Company
ISO 9001 LIC 5127
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- Boiler operation;
- Application of anti-termite treatments;
- Operation of an incinerator;
- Vehicle wash down;
- Vehicle servicing and associated mechanics work shed; and
- Use of asbestos-containing piping, insulation and building products.

A limited Environmental Site Assessment, by Parsons Brinckerhoff (PB) in April 2010, has also been undertaken on a portion of the Strathmont Centre located immediately adjacent to the eastern boundary of the Site. These investigations focussed on the fill materials, use of herbicides, anti-termite treatment of soils and asphalt paving with the results of soil testing reported all chemicals of concern below the adopted environmental and human health (residential land use) criteria.

The use and presence of asbestos containing materials on the Site is also well known with the Site holding a current asbestos register.

3. OBJECTIVE

The objective of the proposed work program was to undertake a targeted soil investigation of areas of greatest concern on the Site with samples collected representative of the 'worst case' scenario.

4. SCOPE OF WORK

To meet the above objective, ERM undertook the following scope of work:

- Prepared an ERM Health and Safety Plan (HASP) prior to the commencement of activities on Site;

- Inspected the Site to finalise borehole locations and undertake service location by BRP Products – Underground Service Locations, prior to the commencement of intrusive investigations;

- Advancement of 14 soil bores (labelled BH01 to BH14) across the site to a nominal depth of 1 m below ground level (mbgl), where possible, with two soil bores (BH05 and BH07) located in the vicinity of the underground fuel storage tank (UST) extended to 4 and 3 metres bgl respectively.

- Five (5) soil samples (labelled Stockpiles A to Stockpile E) were collected from fill materials located in stockpiles to the north of the above ground fuel storage tank (AST);

- Soil samples were collected from each of the soil bores and stockpiles and sent for laboratory analysis as follows:
    - 4 samples (BH01, BH02, BH13, BH14) and 1 duplicate sample (Dup 6) from beneath former buildings and analysed for organochlorine insecticides (specifically aldrin, dieldrin, chlordane and heptachlor among others);
    - 1 sample (BH04)and 1 duplicate sample (Dup 1) from the location of the AST and analysed for BTEX and TPH;
    - 3 samples (BH05, BH06, BH07) and 1 duplicate sample (Dup 2) from the location of the UST and bowser and analysed for BTEX and TPH;
    - 2 samples (BH08, BH09) and 1 duplicate sample (Dup 3) from the location of the garage area and analysed for VOCs/SVOC and metals NEPM suite due the range of potential chemicals used in this area;
    - 5 samples (Stockpile A to Stockpile E) and 1 duplicate sample (Dup 5) from stockpiled fill materials and analysed for a metals NEPM suite to provide an indication of the presence of any potential contamination issues; and
    - 3 samples (BH10, BH11, BH12) and 1 duplicate sample (Dup 4) from beneath bitumen areas on the Site for PAHs.
- Completion of this letter report summarising the activities, laboratory results and conclusions with all documentation associated with the process provided as an attachments to the report.

During the Site inspection no major issues of concern were identified with the incinerator and boiler activity as these were located inside buildings on concrete slabs.

5. PROJECT HEALTH & SAFETY

Protecting the health and safety of staff and subcontractors is critically important to ERM and is a commitment that is taken very seriously by all our staff. Our highest priority on any work we do is to complete work without any health and safety issues or incidents occurring on site.

Prior to undertaking site works, a comprehensive health and safety plan (HASP) and work activity risk assessment (WARN) was prepared for all intended project activities.

All field procedures were undertaken in accordance with ERM Standard Field Protocols and Operating Procedures.

Health and safety issues were constantly monitored throughout the progress of the site works.

6. SOIL SAMPLING AND LABORATORY ANALYSIS

A total of 27 primary soil samples from 14 soil bores locations (labelled BH01 to BH14) and 5 stockpiles (labelled Stockpile A to Stockpile E) were collected from the Site using either push tube (using 4 wheel drive mounted drilling rig), hand auger or hand trowel techniques.

A Site Layout plan showing the sampling locations is shown in *Figure 2*, *Attachment A* and borelogs and a description of the nature of the stockpiles are contained in *Attachment C.*

Samples were collected at depths ranging between 0 to 4 mbgl, dependent on soil lithology and visual evidence of soil impact. Gloves were changed prior to the collection of each sample.

Soil samples were collected for laboratory analysis at selected locations based on visual and olfactory evidence of the following:

- shallow natural or fill layer;
- changes in the soil profile of the underlying natural soil; and
- evidence of other contamination.

Eighteen (18) soil samples, selected as representative of the areas where highest concentrations of contamination were likely to be detected on Site, were chosen for laboratory analysis.

Six (6) quality control/quality assurance (QC/QA) duplicate samples (labelled Dup 1 to Dup 6) were collected from locations BH04, BH05, BH09, BH13 and Stockpile B, were also analysed for the same suite of analytes as the primary sample.

Soil samples were collected in soil jars provided by the laboratory and placed in coolers with ice to ensure preservation at a temperature of 4°C. All primary soil samples and blind field (intra-laboratory) duplicate samples were sent for analysis, along with the corresponding chain of custody documentation (COCs), to ALS Environmental, Melbourne (ALS), a National Association of Testing Authorities (NATA) accredited laboratory.

The laboratory analytical reports and Chain-of-Custody (COC) and analysis request documentation is contained in *Attachment D*.

7. SOIL ASSESSMENT CRITIERIA

The significance of potential contaminant concentrations detected through laboratory analysis has been assessed against established environmental assessment guidelines. The assessment guidelines represent concentrations of specific contaminants, which, if exceeded justify further investigation and evaluation or remedial works.

To assess the suitability of the site for residential use, soil analytical results have been compared against the following reference guidelines:

- National Environmental Protection (Assessment of Site Contamination) Measure (NEPM), Health Investigations levels for Standard Residential (HIL A) (NEPC, 1999) ; and,

- New South Wales Environmental Protection Authority (NSW EPA), Guidelines for Assessing Service Station Sites: Threshold Concentrations for Sensitive Land Use (NSW EPA, 1994) where no NEPM criteria exists.

8. RESULTS

8.1 SOIL PROFILE

The shallow natural soil profile encountered at the Site comprised sandy clays of low to medium plasticity.

Fill materials encountered in the stockpiles comprised brown, fine sandy clays with some gravels, brown clayey sand and loamy material.

8.2 ANALYTICAL RESULTS

The results of the analytical testing undertaken on the soil samples collected from the site against the adopted assessment criteria is contained within Tables 1 through to 6 (*Attachment B*).

All results were below the adopted assessment criteria with the exception of TPH and Xylene in samples BH05_1.2-1.3 and BH07 2-2.1 and Benzene in BH07_2-2.1 both collected from the bores located around the UST.

8.3 QUALITY ASSURANCE/QUALITY CONTROL

The precision of the results for each analyte (above the laboratory limit of reporting) between primary and field duplicate samples was determined by calculating the Relative Percent Difference (RPD). A field duplicate RPD within a

range of 30% to 50% is considered acceptable. The (RPD) table is contained within *Attachment E*.

All RPDs for TPH and BTEX compounds were above the acceptable range in sample BH05 and its duplicate (dup 2), however, given the volatile nature of these compounds it is not unexpected that this sort of variation in soils occurs. Given the preliminary nature of this investigation this variability is accepted in this instance.

All other RPDs were within an acceptable range with the exception of manganese in Stockpile A and its duplicate sample which can be attributed to the heterogeneous nature of the fill material encountered.

A review of the QC/QA assessment indicates the results of the analytical testing are suitable for use for the interpretation of chemicals of concern on Site for the purposes of this report.

9. DISCUSSION

The results of laboratory testing of soil samples collected from the site reported all concentrations below the adopted assessment criteria except for TPH and Xylene in samples BH05_1.2-1.3 and BH07_2-2.1 and Benzene in BH07_2-2.1. These samples were collected from the two bores placed near the UST. The sample collected from BH05 at a depth of 2 to 2.1 mbgl reported all concentrations of TPH and Xylene below the adopted assessment criteria. Although samples were not analysed for BH05 or BH07 at depths greater than 2.1 mbgl, offactory evidence was noted in BH05 to a depth of 4 m, and offactory and visual evidence of petroleum impact was noted to a depth of 3 m in BH07 (see borelogs in *Attachment C*).

The presence of TPH, Benzene and Xylene is consistent with anecdotal evidence that the original 10,000L tank had leaked and was subsequently replaced by a 21,000L tank (this was confirmed on Site by inspection of the dip stick located within the tank).

10. CONCLUSIONS AND RECOMMENDATIONS

The results of the analytical testing undertaken from the soil samples collected from targeted areas on the Site has identified the presence of TPH and BTEX compounds above concentrations that would be acceptable in a residential scenario on the Site. Further work to identify the extent of the impact associated with the UST, in particular groundwater, is required.

11. CLOSURE

Please do not hesitate to contact the undersigned on (08) 8460 0002 if you would like to discuss any aspect of this report.

Yours sincerely,
Environmental Resources Management Australia Pty Ltd

Carolyn Walker
Operations Manager, South Australia

Andrew James
Environmental Scientist

STATEMENT OF LIMITATIONS

The findings of this report are based on the scope of work outlined within this report and any other limitations set out in this report. ERM performed the services in a manner consistent with the normal level of care and expertise exercised by members of the environmental profession. ERM makes no warranty concerning the suitability of the property for any purpose or the permissibility of any use, development or re-development of the site. No implied warranties are made in or by this report.

Subject to the scope of work and any other limitations set out in this section or otherwise expressly and clearly stated in the report, ERM's assessment is limited strictly to identifying certain environmental conditions associated with the subject property and does not evaluate structural conditions of any buildings on the subject property. Lack of identification in the report of any hazardous or toxic materials on the subject property should not be interpreted as a guarantee that such materials do not exist on the site.

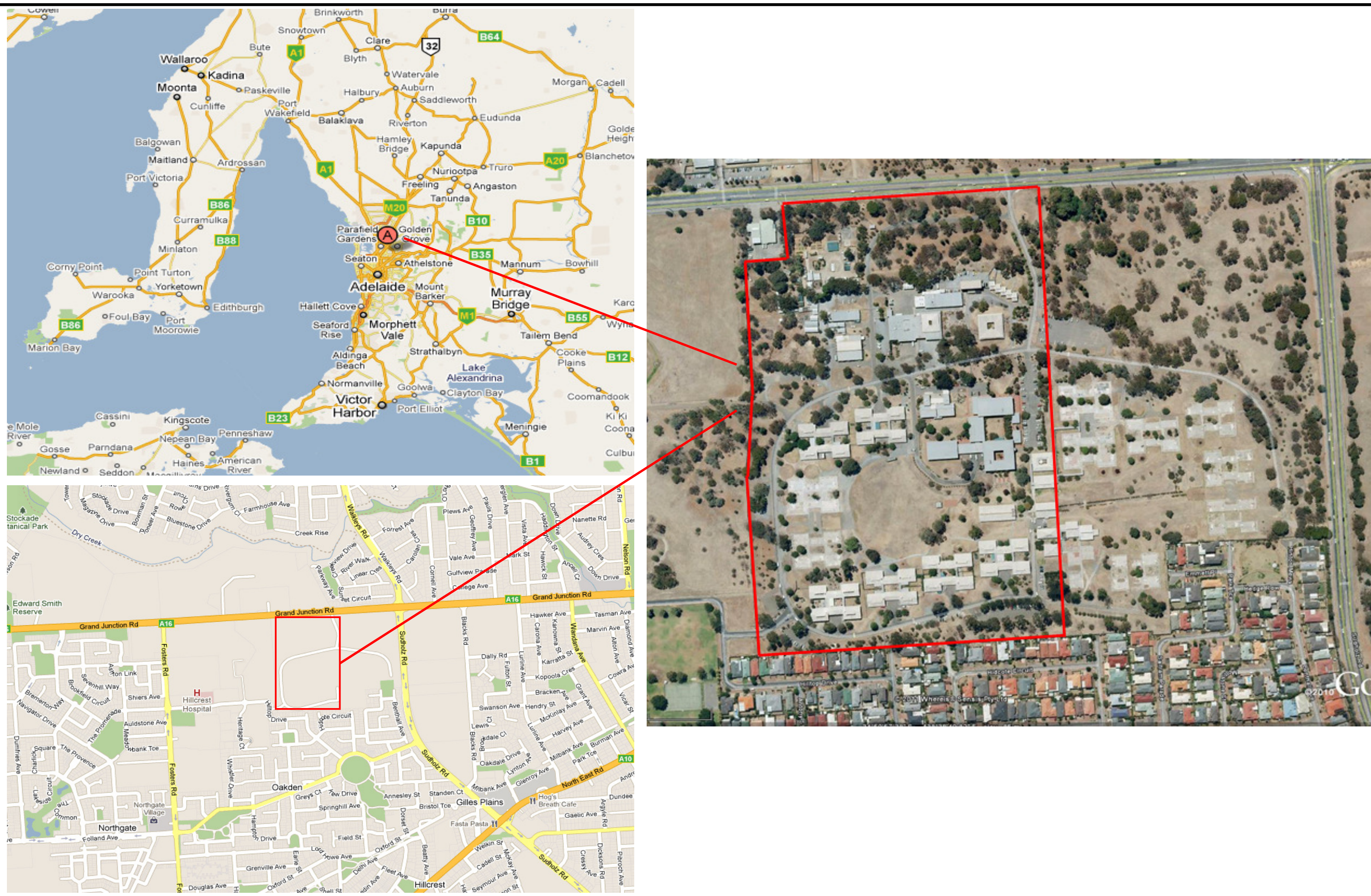
This assessment is based on site inspection conducted by ERM personnel, sampling and analyses described in the report, and information provided by Land Management Corporation ("LMC" or "the client") or other people with knowledge of the site conditions. All conclusions and recommendations made in the report are the professional opinions of the ERM personnel involved with the project and, while normal checking of the accuracy of data has been conducted, ERM assumes no responsibility or liability for errors in data obtained from such sources, regulatory agencies or any other external sources, nor from occurrences outside the scope of this project.

ERM is not engaged in environmental consulting and reporting for the purpose of advertising, sales promoting, or endorsement of any client interests, including raising investment capital, recommending investment decisions, or other publicity or investment purposes.

ERM PREPARED THIS REPORT FOR THE SOLE AND EXCLUSIVE BENEFIT AND USE OF LMC AND THE DEPARTMENT FOR FAMILIES AND COMMUNITIES. NOTWITHSTANDING DELIVERY OF THIS REPORT BY ERM OR LMC TO ANY THIRD PARTY, UNLESS OTHERWISE AGREED, ANY COPY OF THIS REPORT PROVIDED TO A THIRD PARTY IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY, WITHOUT THE RIGHT TO RELY.

ATTACHMENT A

FIGURES



ERM Level 6, 185 Victoria Square Adelaide 5000		DATE:	8 June 2011	DWG SIZE:	A4
		PROJECT:	Strathmont Centre Soil Investigation	APPROVED:	CW
		DRAWN:	AJ	SCALE:	Not to Scale
		DRAWING No:	01	REV:	
CLIENT:	Land Management Corporation	TITLE:	Figure 1: Site Locality Plan		

ERM	Level 6, 185 Victoria Square Adelaide 5000	DATE:	8 JUNE 2011	DWG SIZE:	A4
		PROJECT:	STRATHMONT CENTRE SOIL INVESTIGATION	APPROVED:	CW
		DRAWN:	AJ	SCALE:	NOT TO SCALE
		DRAWING NO:	01	REV:	
CLIENT:	LAND MANAGEMENT CORPORATION	TITLE:	FIGURE 2: SITE SAMPLING PLAN		

ATTACHMENT B

TABLES

				Total Mercury by FIMS	Total Metals by ICP-AES												
				Mercury	Arsenic	Barium	Beryllium	Cadmium	Chromium (III+VI)	Cobalt	Copper	Lead	Manganese	Nickel	Vanadium	Zinc
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.1	5	10	1	1	2	2	5	5	5	2	5	5
EPA 1994 Health and Ecological												300				
NEPM 1999 HIL A				15	100		20	20	100"	100	1000	300	1500	600		7000
Field_ID	**LocCode**	**Sample_Depth_Range**	**Sampled_Date-Time**													
BH01_0.6-0.7	BH01	0.6-0.7	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02_0.1-0.2	BH02	0.1-0.2	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-
BH04_0.0-0.1	BH04	0-0.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP 1	BH04	0-0.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05_1.2-1.3	BH05	1.2-1.3	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP 2	BH05	1.2-1.3	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05_2.0-2.1	BH05	2-2.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-
BH07_2.0-2.1	BH07	2-2.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-
BH08_0.3-0.4	BH08	0.3-0.4	31/05/2011	<0.1	<5	80	<1	<1	12	4	8	7	135	6	25	11
BH09_0.1-0.2	BH09	0.1-0.2	31/05/2011	<0.1	<5	40	<1	<1	9	<2	<5	<5	28	6	<5	<5
DUP 3	BH09	0.1-0.2	31/05/2011	<0.1	<5	30	<1	<1	4	<2	<5	6	35	3	<5	8
BH10_0.01-0.1	BH10	0.01-0.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11_0.01-0.1	BH11	0.01-0.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12_0.01-0.1	BH12	0.01-0.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP 4	BH12	0.01-0.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13_0.2-0.25	BH13	0.2-0.25	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP 6	BH13	0.2-0.25	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14_0.5-0.6	BH14	0.5-0.6	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-
STOCKPILE A	STOCKPILE A		31/05/2011	<0.1	<5	170	<1	<1	17	4	8	7	97	6	69	17
DUP 5	STOCKPILE B		31/05/2011	<0.1	35	110	<1	<1	20	5	13	13	190	8	44	24
STOCKPILE B	STOCKPILE B		31/05/2011	<0.1	14	80	<1	<1	17	4	11	12	160	7	30	22
STOCKPILE C	STOCKPILE C		31/05/2011	<0.1	<5	390	<1	<1	5	<2	29	17	108	4	11	100
STOCKPILE D	STOCKPILE D		31/05/2011	<0.1	<5	100	<1	<1	19	4	25	14	210	9	36	38
STOCKPILE E	STOCKPILE E		31/05/2011	<0.1	<5	70	<1	<1	11	2	12	18	185	5	30	45

* = Aldrin + Dieldrin total
** = DDT + DDE + DDD total
' = Chromium VI value, no value for III + VI
*** = Chlordane - does not specify different types

				TPH - Semivolatile Fraction					TPH Volatiles/BTEX								
				TPH C10 - C14	TPH C15 - C28	TPH C29-C36	TPH+C10 - C36 (Sum of total)	TPH C10 - C40 (Sum of total)	Benzene	Ethylbenzene	Naphthalene	Toluene	TPH C6 - C9	Xylene (m & p)	Xylene (o)	Xylene Total	TPH C6-C10
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				50	100	100	50	50	0.2	0.5	1	0.5	10	0.5	0.5	0.5	10
EPA 1994 Health and Ecological							1000		1	50		130	65			25	
NEPM 1999 HIL A																	
Field_ID	**LocCode**	**Sample_Depth_Range**	**Sampled_Date-Time**														
BH01_0.6-0.7	BH01	0.6-0.7	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02_0.1-0.2	BH02	0.1-0.2	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH04_0.0-0.1	BH04	0-0.1	31/05/2011	<50	140	200	340	490	<0.2	<0.5	<1	<0.5	<10	<0.5	<0.5	<0.5	<10
DUP 1	BH04	0-0.1	31/05/2011	<50	<100	140	140	320	<0.2	<0.5	<1	<0.5	<10	<0.5	<0.5	<0.5	<10
BH05_1.2-1.3	BH05	1.2-1.3	31/05/2011	680	<100	<100	680	580	0.4	12.4	23	15.1	452	176	80.7	257	887
DUP 2	BH05	1.2-1.3	31/05/2011	90	<100	<100	90	220	<0.2	2.1	7	2.6	70	27.5	13.6	41.1	153
BH05_2.0-2.1	BH05	2-2.1	31/05/2011	<50	<100	<100	<50	<50	<0.2	<0.5	<1	<0.5	<10	<0.5	<0.5	<0.5	<10
BH07_2.0-2.1	BH07	2-2.1	31/05/2011	<50	<100	<100	<50	<50	1.2	5.7	2	2.5	137	19.2	6.5	25.7	179
BH08_0.3-0.4	BH08	0.3-0.4	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH09_0.1-0.2	BH09	0.1-0.2	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP 3	BH09	0.1-0.2	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10_0.01-0.1	BH10	0.01-0.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11_0.01-0.1	BH11	0.01-0.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12_0.01-0.1	BH12	0.01-0.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP 4	BH12	0.01-0.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13_0.2-0.25	BH13	0.2-0.25	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP 6	BH13	0.2-0.25	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14_0.5-0.6	BH14	0.5-0.6	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STOCKPILE A	STOCKPILE A		31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP 5	STOCKPILE B		31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STOCKPILE B	STOCKPILE B		31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STOCKPILE C	STOCKPILE C		31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STOCKPILE D	STOCKPILE D		31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STOCKPILE E	STOCKPILE E		31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-

* = Aldrin + Dieldrin total
** = DDT + DDE + DDD total
' = Chromium VI value, no value for III + VI
*** = Chlordane - does not specify different types

				PAH/Phenols (SIM)																
				Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Phenanthrene	Pyrene
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
EPA 1994 Health and Ecological								1										20		
NEPM 1999 HIL A								1										20		
Field_ID	**LocCode**	**Sample_Depth_Range**	**Sampled_Date-Time**																	
BH01_0.6-0.7	BH01	0.6-0.7	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02_0.1-0.2	BH02	0.1-0.2	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH04_0.0-0.1	BH04	0-0.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP 1	BH04	0-0.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05_1.2-1.3	BH05	1.2-1.3	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP 2	BH05	1.2-1.3	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05_2.0-2.1	BH05	2-2.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH07_2.0-2.1	BH07	2-2.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH08_0.3-0.4	BH08	0.3-0.4	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH09_0.1-0.2	BH09	0.1-0.2	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP 3	BH09	0.1-0.2	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10_0.01-0.1	BH10	0.01-0.1	31/05/2011	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH11_0.01-0.1	BH11	0.01-0.1	31/05/2011	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH12_0.01-0.1	BH12	0.01-0.1	31/05/2011	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
DUP 4	BH12	0.01-0.1	31/05/2011	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH13_0.2-0.25	BH13	0.2-0.25	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP 6	BH13	0.2-0.25	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14_0.5-0.6	BH14	0.5-0.6	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STOCKPILE A	STOCKPILE A		31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP 5	STOCKPILE B		31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STOCKPILE B	STOCKPILE B		31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STOCKPILE C	STOCKPILE C		31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STOCKPILE D	STOCKPILE D		31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STOCKPILE E	STOCKPILE E		31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

* = Aldrin + Dieldrin total
** = DDT + DDE + DDD total
' = Chromium VI value, no value for III + VI
*** = Chlordane - does not specify different types

				Pesticides by GCMS																				
				4,4-DDE	a-BHC	Aldrin	b-BHC	Chlordane (cis)	Chlordane (trans)	d-BHC	DDD	DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Hexachlorobenzene	Methoxychlor
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.2	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.2
EPA 1994 Health and Ecological																								
NEPM 1999 HIL A						10*		50***	50***		200**	200**	10*								10			
Field_ID	**LocCode**	**Sample_Depth_Range**	**Sampled_Date-Time**																					
BH01_0.6-0.7	BH01	0.6-0.7	31/05/2011	<0.05	<0.05	<0.05	<0.05	0.4	0.27	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2
BH02_0.1-0.2	BH02	0.1-0.2	31/05/2011	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2
BH04_0.0-0.1	BH04	0-0.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP 1	BH04	0-0.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05_1.2-1.3	BH05	1.2-1.3	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP 2	BH05	1.2-1.3	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05_2.0-2.1	BH05	2-2.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH07_2.0-2.1	BH07	2-2.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH08_0.3-0.4	BH08	0.3-0.4	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH09_0.1-0.2	BH09	0.1-0.2	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP 3	BH09	0.1-0.2	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10_0.01-0.1	BH10	0.01-0.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11_0.01-0.1	BH11	0.01-0.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12_0.01-0.1	BH12	0.01-0.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP 4	BH12	0.01-0.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13_0.2-0.25	BH13	0.2-0.25	31/05/2011	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2
DUP 6	BH13	0.2-0.25	31/05/2011	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2
BH14_0.5-0.6	BH14	0.5-0.6	31/05/2011	<0.05	<0.05	<0.05	<0.05	0.12	0.07	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2
STOCKPILE A	STOCKPILE A		31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP 5	STOCKPILE B		31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STOCKPILE B	STOCKPILE B		31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STOCKPILE C	STOCKPILE C		31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STOCKPILE D	STOCKPILE D		31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STOCKPILE E	STOCKPILE E		31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

* = Aldrin + Dieldrin total
** = DDT + DDE + DDD total
' = Chromium VI value, no value for III + VI
*** = Chlordane - does not specify different types

				Semivolatile Organic Compounds																																				
				1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,3,5-Trinitrobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	1-naphthylamine	2-(acetylamino) fluorene	2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2,4-Dinitrotoluene	2,6-dichlorophenol	2,6-dinitrotoluene	2-chloronaphthalene	2-chlorophenol	2-methylnaphthalene	2-methylphenol	2-nitroaniline	2-nitrophenol	2-Picoline	3-&4-methylphenol	3,3-Dichlorobenzidine	3-methylcholanthrene	3-nitroaniline	4-(dimethylamino) azobenzene	4,4-DDE	4-aminobiphenyl	4-bromophenyl phenyl ether	4-chloro-3-methylphenol	4-chloroaniline	4-chlorophenyl phenyl ether	4-nitroaniline	4-Nitroquinoline-N-oxide	2-methyl-5-nitroaniline	7,12-dimethylbenz(a)anthracene
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
EPA 1994 Health and Ecological																																								
NEPM 1999 HIL A																																								
Field_ID	**LocCode**	**Sample_Depth_Range**	**Sampled_Date-Time**																																					
BH01_0.6-0.7	BH01	0.6-0.7	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02_0.1-0.2	BH02	0.1-0.2	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH04_0.0-0.1	BH04	0-0.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP 1	BH04	0-0.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05_1.2-1.3	BH05	1.2-1.3	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP 2	BH05	1.2-1.3	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05_2.0-2.1	BH05	2-2.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH07_2.0-2.1	BH07	2-2.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH08_0.3-0.4	BH08	0.3-0.4	31/05/2011	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH09_0.1-0.2	BH09	0.1-0.2	31/05/2011	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
DUP 3	BH09	0.1-0.2	31/05/2011	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
BH10_0.01-0.1	BH10	0.01-0.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11_0.01-0.1	BH11	0.01-0.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12_0.01-0.1	BH12	0.01-0.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP 4	BH12	0.01-0.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13_0.2-0.25	BH13	0.2-0.25	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP 6	BH13	0.2-0.25	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14_0.5-0.6	BH14	0.5-0.6	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STOCKPILE A	STOCKPILE A		31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP 5	STOCKPILE B		31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STOCKPILE B	STOCKPILE B		31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STOCKPILE C	STOCKPILE C		31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STOCKPILE D	STOCKPILE D		31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STOCKPILE E	STOCKPILE E		31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

* = Aldrin + Dieldrin total
** = DDT + DDE + DDD total
' = Chromium VI value, no value for III + VI
*** = Chlordane - does not specify different types

				Semivolatile Organic Compounds (cont)																																				
				a-BHC	Acenaphthene	Acenaphthylene	Acetophenone	Aldrin	Aniline	Anthracene	Azobenzene	b-BHC	Benz(a)anthracene	Benzo(a) pyrene	Benzo(b)&(k)fluoranthene	Benzo(g,h,i)perylene	Bis(2-chloroethoxy) methane	Bis(2-chloroisopropyl) ether	Bis(2-ethylhexyl) phthalate	Butyl benzyl phthalate	Carbazole	Chlorfenvinphos	Chlorobenzilate	Chlorpyrifos	Chlorpyrifos-methyl	Chrysene	d-BHC	DDD	DDT	Diazinon	Dibenz(a,h)anthracene	Dibenzofuran	Dichlorvos	Dieldrin	Diethylphthalate	Dimethoate	Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
EPA 1994 Health and Ecological														1																										
NEPM 1999 HIL A								10*						1														200**	200**					10*					
Field_ID	**LocCode**	**Sample_Depth_Range**	**Sampled_Date-Time**																																					
BH01_0.6-0.7	BH01	0.6-0.7	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02_0.1-0.2	BH02	0.1-0.2	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH04_0.0-0.1	BH04	0-0.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP 1	BH04	0-0.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05_1.2-1.3	BH05	1.2-1.3	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP 2	BH05	1.2-1.3	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05_2.0-2.1	BH05	2-2.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH07_2.0-2.1	BH07	2-2.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH08_0.3-0.4	BH08	0.3-0.4	31/05/2011	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH09_0.1-0.2	BH09	0.1-0.2	31/05/2011	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<3	<1.5	<1.5	<1.5	<3	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
DUP 3	BH09	0.1-0.2	31/05/2011	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5	<2.5	<2.5	<2.5	<5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
BH10_0.01-0.1	BH10	0.01-0.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11_0.01-0.1	BH11	0.01-0.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12_0.01-0.1	BH12	0.01-0.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP 4	BH12	0.01-0.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13_0.2-0.25	BH13	0.2-0.25	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP 6	BH13	0.2-0.25	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14_0.5-0.6	BH14	0.5-0.6	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STOCKPILE A	STOCKPILE A		31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP 5	STOCKPILE B		31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STOCKPILE B	STOCKPILE B		31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STOCKPILE C	STOCKPILE C		31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STOCKPILE D	STOCKPILE D		31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STOCKPILE E	STOCKPILE E		31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

* = Aldrin + Dieldrin total
** = DDT + DDE + DDD total
' = Chromium VI value, no value for III + VI
*** = Chlordane - does not specify different types

				Semivolatile Organic Compounds (cont)																																								
				Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Ethion	Fenthion	Fluoranthene	Fluorene	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Hexachloropropene	Indeno(1,2,3-c,d)pyrene	Isophorone	Malathion	Methapyrilene	Naphthalene	Nitrobenzene	N-nitrosodiethylamine	N-nitrosodi-n-butylamine	N-nitrosodi-n-propylamine	N-Nitrosodiphenyl & Diphenylamine	N-Nitrosomethylethylamine	N-nitrosomorpholine	N-nitrosopiperidine	N-nitrosopyrrolidine	PAHs (Sum of total)	Pentachlorobenzene	Pentachloronitrobenzene	Pentachlorophenol	Phenacetin	Phenanthrene	Phenol	Pirimphos-ethyl	Pronamide	Prothiofos	Pyrene
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5
EPA 1994 Health and Ecological																																			20										
NEPM 1999 HIL A													10																						20						8500				
Field_ID	**LocCode**	**Sample_Depth_Range**	**Sampled_Date-Time**																																									
BH01_0.6-0.7	BH01	0.6-0.7	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02_0.1-0.2	BH02	0.1-0.2	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH04_0.0-0.1	BH04	0-0.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP 1	BH04	0-0.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05_1.2-1.3	BH05	1.2-1.3	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP 2	BH05	1.2-1.3	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05_2.0-2.1	BH05	2-2.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH07_2.0-2.1	BH07	2-2.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH08_0.3-0.4	BH08	0.3-0.4	31/05/2011	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH09_0.1-0.2	BH09	0.1-0.2	31/05/2011	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<3	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
DUP 3	BH09	0.1-0.2	31/05/2011	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
BH10_0.01-0.1	BH10	0.01-0.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11_0.01-0.1	BH11	0.01-0.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12_0.01-0.1	BH12	0.01-0.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP 4	BH12	0.01-0.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13_0.2-0.25	BH13	0.2-0.25	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP 6	BH13	0.2-0.25	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14_0.5-0.6	BH14	0.5-0.6	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STOCKPILE A	STOCKPILE A		31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP 5	STOCKPILE B		31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STOCKPILE B	STOCKPILE B		31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STOCKPILE C	STOCKPILE C		31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STOCKPILE D	STOCKPILE D		31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STOCKPILE E	STOCKPILE E		31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

* = Aldrin + Dieldrin total
** = DDT + DDE + DDD total
[1] = Chromium VI value, no value for III + VI
*** = Chlordane - does not specify different types

				Volatile Organic Compounds																													
				1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,1-dichloroethene	1,1-dichloropropene	1,2,3-trichlorobenzene	1,2,3-trichloropropane	1,2,4-trimethylbenzene	1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3,5-trimethylbenzene	1,3-dichloropropane	2,2-dichloropropane	Methyl Ethyl Ketone	2-chlorotoluene	2-hexanone (MBK)	4-chlorotoluene	4-Methyl-2-pentanone	Benzene	Bromobenzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chlorodibromomethane
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	5	0.5	5	0.5	5	0.2	0.5	0.5	0.5	5	0.5	0.5	0.5	0.5
EPA 1994 Health and Ecological																									1								
NEPM 1999 HIL A																																	
Field_ID	**LocCode**	**Sample_Depth_Range**	**Sampled_Date-Time**																														
BH01_0.6-0.7	BH01	0.6-0.7	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02_0.1-0.2	BH02	0.1-0.2	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH04_0.0-0.1	BH04	0-0.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP 1	BH04	0-0.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05_1.2-1.3	BH05	1.2-1.3	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP 2	BH05	1.2-1.3	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05_2.0-2.1	BH05	2-2.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH07_2.0-2.1	BH07	2-2.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH08_0.3-0.4	BH08	0.3-0.4	31/05/2011	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<5	<0.2	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5
BH09_0.1-0.2	BH09	0.1-0.2	31/05/2011	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<5	<0.2	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5
DUP 3	BH09	0.1-0.2	31/05/2011	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<5	<0.2	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5
BH10_0.01-0.1	BH10	0.01-0.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11_0.01-0.1	BH11	0.01-0.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12_0.01-0.1	BH12	0.01-0.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP 4	BH12	0.01-0.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13_0.2-0.25	BH13	0.2-0.25	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP 6	BH13	0.2-0.25	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14_0.5-0.6	BH14	0.5-0.6	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STOCKPILE A	STOCKPILE A		31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP 5	STOCKPILE B		31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STOCKPILE B	STOCKPILE B		31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STOCKPILE C	STOCKPILE C		31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STOCKPILE D	STOCKPILE D		31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STOCKPILE E	STOCKPILE E		31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

* = Aldrin + Dieldrin total
** = DDT + DDE + DDD total
' = Chromium VI value, no value for III + VI
*** = Chlordane - does not specify different types

				Volatile Organic Compounds (cont)																													Moisture Content
				Chloroethane	Chloroform	Chloromethane	cis-1,2-dichloroethene	cis-1,3-dichloropropene	cis-1,4-Dichloro-2-butene	Dibromomethane	Dichlorodifluoromethane	Ethylbenzene	Iodomethane	Isopropylbenzene	n-butylbenzene	n-propylbenzene	Pentachloroethane	p-isopropyltoluene	sec-butylbenzene	Styrene	Trichloroethene	tert-butylbenzene	Tetrachloroethene	Toluene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	trans-1,4-Dichloro-2-butene	Trichlorofluoromethane	Vinyl acetate	Vinyl chloride	Xylene (m & p)	Xylene (o)	Moisture
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	%
EQL				5	0.5	5	0.5	0.5	0.5	0.5	5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	5	5	5	0.5	0.5	1
EPA 1994 Health and Ecological												50												130										
NEPM 1999 HIL A																																		
Field_ID	**LocCode**	**Sample_Depth_Range**	**Sampled_Date-Time**																														
BH01_0.6-0.7	BH01	0.6-0.7	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.4
BH02_0.1-0.2	BH02	0.1-0.2	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.2
BH04_0.0-0.1	BH04	0-0.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.3
DUP 1	BH04	0-0.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.5
BH05_1.2-1.3	BH05	1.2-1.3	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.4
DUP 2	BH05	1.2-1.3	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.3
BH05_2.0-2.1	BH05	2-2.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27.3
BH07_2.0-2.1	BH07	2-2.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.6
BH08_0.3-0.4	BH08	0.3-0.4	31/05/2011	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<0.5	<0.5	16.6
BH09_0.1-0.2	BH09	0.1-0.2	31/05/2011	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<0.5	<0.5	2.8
DUP 3	BH09	0.1-0.2	31/05/2011	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<0.5	<0.5	2.6
BH10_0.01-0.1	BH10	0.01-0.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.4
BH11_0.01-0.1	BH11	0.01-0.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.7
BH12_0.01-0.1	BH12	0.01-0.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.6
DUP 4	BH12	0.01-0.1	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
BH13_0.2-0.25	BH13	0.2-0.25	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9
DUP 6	BH13	0.2-0.25	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.5
BH14_0.5-0.6	BH14	0.5-0.6	31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28.7
STOCKPILE A	STOCKPILE A		31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24.5
DUP 5	STOCKPILE B		31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.6
STOCKPILE B	STOCKPILE B		31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.8
STOCKPILE C	STOCKPILE C		31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.4
STOCKPILE D	STOCKPILE D		31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22
STOCKPILE E	STOCKPILE E		31/05/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.8

* = Aldrin + Dieldrin total
** = DDT + DDE + DDD total
' = Chromium VI value, no value for III + VI
*** = Chlordane - does not specify different types

ATTACHMENT C

BORELOGS AND STOCKPILE DESCRIPTION

Client: **LMC**
Project No.: **Strathmont**
Project Name: **Strathmont Centre Soil Investigation**
Site Name: **Strathmont Centre**
Site Address: **Grand Junction Road, Oakden, SA**

ID: BH01

ERM

ERM Australia Pty Ltd

Drill Start Date: **5/31/2011**	Total Depth (m): **0.87**	Final Water Level (m bgl): **n/a**
Drill Finish Date: **5/31/2011**	Hole Diam. / Width (mm): **75**	Elevation (Ground): **-**
Drill Co: **ERM**	Casing Type: **n/a**	Elevation (Case): **-**
Driller: **A. James**	Casing Diam. (mm): **n/a**	Easting (MGA): **-**
Drill Method: **Hand Augering**	Surface Completion: **Backfilled**	Northing (MGA): **-**
Hole Type: **Soil Bore**	Water Strike (m bgl): **-**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete Concrete at surface.										
Fill Hollow area under concrete slab										
Fill Dark Brown, medium to coarse grained, moist, friable sandy clay with small gravel inclusions (~20%)					HA	X			BH01_0.6-0.7	
					HA				BH01_0.8-0.9	
Sandy Clay Cream, fine, moist sandy clay with low plasticity			1							
End of Log			2 3 4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **AJ**

Client: **LMC**
Project No.: **Strathmont**
Project Name: **Strathmont Centre Soil Investigation**
Site Name: **Strathmont Centre**
Site Address: **Grand Junction Road, Oakden, SA**

ID: BH02

ERM

ERM Australia Pty Ltd

Drill Start Date: **5/31/2011**	Total Depth (m): **0.9**	Final Water Level (m bgl): **n/a**
Drill Finish Date: **5/31/2011**	Hole Diam. / Width (mm): **75**	Elevation (Ground): **-**
Drill Co: **ERM**	Casing Type: **n/a**	Elevation (Case): **-**
Driller: **A. James**	Casing Diam. (mm): **n/a**	Easting (MGA): **-**
Drill Method: **Hand Augering**	Surface Completion: **Backfilled**	Northing (MGA): **-**
Hole Type: **Soil bore**	Water Strike (m bgl): **-**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Topsoil Brown, sandy loam with small gravel inclusions (~ 10%)					HA	X			BH02_0.1-0.2	
Fill Yellow-brown, coarse sand consistent with foundation sand					HA				BH02_0.4-0.5	
Sandy Clay Red-brown, mottled, friable, fine sandy clay with low plasticity			1							
End of Log			2							
			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **AJ**

Client: **LMC**
Project No.: **Strathmont**
Project Name: **Strathmont Centre Soil Investigation**
Site Name: **Strathmont Centre**
Site Address: **Grand Junction Road, Oakden, SA**

ID: BH03

ERM

ERM Australia Pty Ltd

Drill Start Date: **5/31/2011**	Total Depth (m): **1**	Final Water Level (m bgl): **n/a**
Drill Finish Date: **5/31/2011**	Hole Diam. / Width (mm): **50**	Elevation (Ground): **-**
Drill Co: **Soil Surveys**	Casing Type: **n/a**	Elevation (Case): **-**
Driller: **Brett Durand**	Casing Diam. (mm): **n/a**	Easting (MGA): **-**
Drill Method: **Push Tube**	Surface Completion: **Backfilled**	Northing (MGA): **-**
Hole Type: **Soil Bore**	Water Strike (m bgl): **-**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Bitumen Bitumen at surface										
Fill Grey sandy gravel road base					PT				BH03_0.25-0.35	
Sandy Clay Brown, friable fine sandy clay with low plasticity										
Sandy Clay Light brown, dry, friable fine sandy clay with low plasticity			1							
End of Log			2 3 4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **AJ**

Client: **LMC**
Project No.: **Strathmont**
Project Name: **Strathmont Centre Soil Investigation**
Site Name: **Strathmont Centre**
Site Address: **Grand Junction Road, Oakden, SA**

ID: BH04

ERM

ERM Australia Pty Ltd

Drill Start Date: **5/31/2011**	Total Depth (m): **1**	Final Water Level (m bgl): **n/a**
Drill Finish Date: **5/31/2011**	Hole Diam. / Width (mm): **50**	Elevation (Ground): **-**
Drill Co: **Soil Surveys**	Casing Type: **n/a**	Elevation (Case): **-**
Driller: **Brett Durand**	Casing Diam. (mm): **n/a**	Easting (MGA): **-**
Drill Method: **Push Tube**	Surface Completion: **Backfilled**	Northing (MGA): **-**
Hole Type: **Soil bore**	Water Strike (m bgl): **-**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Topsoil Brown sandy loam with some small gravel inclusions (~%5) and some grass/leaf litter at surface					PT	X			BH04_0.0-0.1	Dup 1
Sandy Clay Brown, friable, fine sandy clay with low plasticity					PT				BH04_0.3-0.4	
Sandy Clay Light brown, dry, friable fine sandy clay with low plasticity										
			1							
End of Log										
			2							
			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **AJ**

Client: **LMC**
Project No.: **Strathmont**
Project Name: **Strathmont Centre Soil Investigation**
Site Name: **Strathmont Centre**
Site Address: **Grand Junction Road, Oakden, SA**

ID: BH05

ERM

ERM Australia Pty Ltd

Drill Start Date: **5/31/2011**	Total Depth (m): **4**	Final Water Level (m bgl): **n/a**
Drill Finish Date: **5/31/2011**	Hole Diam. / Width (mm): **50**	Elevation (Ground): **-**
Drill Co: **Soil Surveys**	Casing Type: **n/a**	Elevation (Case): **-**
Driller: **Brett Durand**	Casing Diam. (mm): **n/a**	Easting (MGA): **-**
Drill Method: **Push Tube**	Surface Completion: **Backfilled**	Northing (MGA): **-**
Hole Type: **Soil bore**	Water Strike (m bgl): **-**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete Paver at surface										
Fill Grey, slightly moist gravel road base										
Sandy Clay Grey/yellow, slightly plastic fine sandy clay										
Sandy Clay Brown, slightly moist, fine sandy clay with medium plasticity			1							
Sandy Clay Light brown, friable, fine sandy clay with low plasticity. Odour present					PT	X			BH05_1.2-1.3	Dup 2
Sandy Clay Green/grey, fine sandy clay with medium plasticity. Odour present			2							
Sandy Clay Blue-green/grey fine sandy clay with medium plasticity. Odour present					PT	X			BH05_2.0-2.1	
Clay Blue-green/grey fine clay with red mottles and medium plasticity. Odour present			3		PT				BH05_3.0-3.1	
End of Log			4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **AJ**

Client: **LMC**
Project No.: **Strathmont**
Project Name: **Strathmont Centre Soil Investigation**
Site Name: **Strathmont Centre**
Site Address: **Grand Junction Road, Oakden, SA**

ID: BH06

ERM

ERM Australia Pty Ltd

Drill Start Date: **5/31/2011**	Total Depth (m): **1**	Final Water Level (m bgl): **n/a**
Drill Finish Date: **5/31/2011**	Hole Diam. / Width (mm): **50**	Elevation (Ground): **-**
Drill Co: **Soil Surveys**	Casing Type: **n/a**	Elevation (Case): **-**
Driller: **Brett Durand**	Casing Diam. (mm): **n/a**	Easting (MGA): **-**
Drill Method: **Push Tube**	Surface Completion: **Backfilled**	Northing (MGA): **-**
Hole Type: **Soil bore**	Water Strike (m bgl): **-**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Bitumen Bitumen at surface										
Fill Yellow, coarse-grained sand with large gravel inclusions (~40%)										
Fill Light brown to brown, moist sandy clay with low plasticity and some large gravel inclusions from the road base above					PT				BH06_0.7-0.8	
									BH06_0.9-0.95	
Fill Light brown moist sandy clay with medium plasticity			1							
Fill Yellow, coarse-grained UST backfill sand										
End of Log			2 3 4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **AJ**

Client: **LMC**
Project No.: **Strathmont**
Project Name: **Strathmont Centre Soil Investigation**
Site Name: **Strathmont Centre**
Site Address: **Grand Junction Road, Oakden, SA**

ID: BH07

ERM

ERM Australia Pty Ltd

Drill Start Date: **5/31/2011**	Total Depth (m): **3**	Final Water Level (m bgl): **n/a**
Drill Finish Date: **5/31/2011**	Hole Diam. / Width (mm): **50**	Elevation (Ground): **-**
Drill Co: **Soil Surveys**	Casing Type: **n/a**	Elevation (Case): **-**
Driller: **Brett Durand**	Casing Diam. (mm): **n/a**	Easting (MGA): **-**
Drill Method: **Push Tube**	Surface Completion: **Backfilled**	Northing (MGA): **-**
Hole Type: **Soil bore**	Water Strike (m bgl): **-**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Bitumen Bitumen at surface										
Fill Yellow, coarse-grained sand with large gravel inclusions (~40%)										
Fill Grey, friable dolomite road base with some large gravel inclusions from above (~10%)										
Sandy Clay Brown to red-brown slightly moist sandy clay with low plasticity			1							
Sandy Clay White to very light brown fine moist sandy clay with low to medium plasticity										
Sandy Clay White to very light brown fine moist sandy clay with medium plasticity										
Sandy Clay Light brown to green/grey fine moist sandy clay with medium plasticity. Odour present			2		PT	X			BH07_2.0-2.1	
Sandy Clay Light brown to green/grey fine moist sandy clay with medium plasticity and some black smearing (~5%). Odour present					PT				BH07_2.3-2.4	
Sandy Clay Light brown to green/grey fine moist sandy clay with medium plasticity and some black smearing (<5%).			3							
End of Log			4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **AJ**

Client: **LMC**
Project No.: **Strathmont**
Project Name: **Strathmont Centre Soil Investigation**
Site Name: **Strathmont Centre**
Site Address: **Grand Junction Road, Oakden, SA**

ID: BH08

ERM

ERM Australia Pty Ltd

Drill Start Date: **5/31/2011**	Total Depth (m): **1**	Final Water Level (m bgl): **n/a**
Drill Finish Date: **5/31/2011**	Hole Diam. / Width (mm): **50**	Elevation (Ground): **-**
Drill Co: **Soil Surveys**	Casing Type: **n/a**	Elevation (Case): **-**
Driller: **Brett Durand**	Casing Diam. (mm): **n/a**	Easting (MGA): **-**
Drill Method: **Push Tube**	Surface Completion: **Backfilled**	Northing (MGA): **-**
Hole Type: **Soil bore**	Water Strike (m bgl): **-**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Bitumen Bitumen at surface										
Fill Yellow, coarse-grained sand with large gravel inclusions (~40%)					PT	X			BH08_0.3-0.4	
Fill Brown, friable, fine sandy clay with low plasticity										
Fill Yellow, medium-grained sand			1		PT				BH08_0.9-1.0	
Sandy Clay Brown, fine sandy clay with low to medium plasticity										
Sandy Clay Dark brown, moist, friable, fine sandy clay with very low plasticity										
Sandy Clay Brown, very moist, fine sandy clay with no plasticity										
End of Log			2 3 4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **AJ**

Client: **LMC**
Project No.: **Strathmont**
Project Name: **Strathmont Centre Soil Investigation**
Site Name: **Strathmont Centre**
Site Address: **Grand Junction Road, Oakden, SA**

ID: BH09

ERM

ERM Australia Pty Ltd

Drill Start Date: **5/31/2011**	Total Depth (m): **0.27**	Final Water Level (m bgl): **n/a**
Drill Finish Date: **5/31/2011**	Hole Diam. / Width (mm): **75**	Elevation (Ground): **-**
Drill Co: **ERM**	Casing Type: **n/a**	Elevation (Case): **-**
Driller: **A. James**	Casing Diam. (mm): **n/a**	Easting (MGA): **-**
Drill Method: **Hand Augering**	Surface Completion: **Backfilled**	Northing (MGA): **-**
Hole Type: **Soil bore**	Water Strike (m bgl): **-**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Bitumen Bitumen at surface					HA	X			BH09_0.1-0.2	Dup 3
Fill Yellow, coarse-grained sand with large gravel inclusions (~40%)										
End of Log			1 2 3 4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **AJ**

Client: **LMC**
Project No.: **Strathmont**
Project Name: **Strathmont Centre Soil Investigation**
Site Name: **Strathmont Centre**
Site Address: **Grand Junction Road, Oakden, SA**

ID: BH10

ERM

ERM Australia Pty Ltd

Drill Start Date: **5/31/2011**	Total Depth (m): **0.1**	Final Water Level (m bgl): **n/a**
Drill Finish Date: **5/31/2011**	Hole Diam. / Width (mm): **75**	Elevation (Ground): **-**
Drill Co: **ERM**	Casing Type: **n/a**	Elevation (Case): **-**
Driller: **A. James**	Casing Diam. (mm): **n/a**	Easting (MGA): **-**
Drill Method: **Hand Augering**	Surface Completion: **Backfilled**	Northing (MGA): **-**
Hole Type: **Soil bore**	Water Strike (m bgl): **-**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Bitumen Bitumen at surface					HA	X			BH10_0.01-0.1	
Fill Yellow, coarse-grained sand with large gravel inclusions (~40%)										
End of Log			1 2 3 4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **AJ**

Client: **LMC**
Project No.: **Strathmont**
Project Name: **Strathmont Centre Soil Investigation**
Site Name: **Strathmont Centre**
Site Address: **Grand Junction Road, Oakden, SA**

ID: BH11

ERM

ERM Australia Pty Ltd

Drill Start Date: **5/31/2011**	Total Depth (m): **0.2**	Final Water Level (m bgl): **n/a**
Drill Finish Date: **5/31/2011**	Hole Diam. / Width (mm): **75**	Elevation (Ground): **-**
Drill Co: **ERM**	Casing Type: **n/a**	Elevation (Case): **-**
Driller: **A. James**	Casing Diam. (mm): **n/a**	Easting (MGA): **-**
Drill Method: **Hand Augering**	Surface Completion: **Backfilled**	Northing (MGA): **-**
Hole Type: **Soil bore**	Water Strike (m bgl): **-**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Bitumen Bitumen at surface					HA	X			BH11_0.01-0.1	
Fill Yellow, coarse-grained sand with large gravel inclusions (~40%)										
Sandy Clay Brown, slightly moist, fine sandy clay with low plasticity										
End of Log			1							
			2							
			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **AJ**

Client: **LMC**
Project No.: **Strathmont**
Project Name: **Strathmont Centre Soil Investigation**
Site Name: **Strathmont Centre**
Site Address: **Grand Junction Road, Oakden, SA**

ID: BH12

ERM

ERM Australia Pty Ltd

Drill Start Date: **5/31/2011**	Total Depth (m): **0.16**	Final Water Level (m bgl): **n/a**
Drill Finish Date: **5/31/2011**	Hole Diam. / Width (mm): **75**	Elevation (Ground): **-**
Drill Co: **ERM**	Casing Type: **n/a**	Elevation (Case): **-**
Driller: **A. James**	Casing Diam. (mm): **n/a**	Easting (MGA): **-**
Drill Method: **Hand Augering**	Surface Completion: **Backfilled**	Northing (MGA): **-**
Hole Type: **Soil bore**	Water Strike (m bgl): **-**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Bitumen Bitumen at surface					HA	X			BH12_0.01-0.1	Dup 4
Fill Yellow, coarse-grained sand with large gravel inclusions (~40%)										
End of Log			1 2 3 4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **AJ**

Client: **LMC**
Project No.: **Strathmont**
Project Name: **Strathmont Centre Soil Investigation**
Site Name: **Strathmont Centre**
Site Address: **Grand Junction Road, Oakden, SA**

ID: BH13

ERM

ERM Australia Pty Ltd

Drill Start Date: **5/31/2011**	Total Depth (m): **0.3**	Final Water Level (m bgl): **n/a**
Drill Finish Date: **5/31/2011**	Hole Diam. / Width (mm): **75**	Elevation (Ground): **-**
Drill Co: **ERM**	Casing Type: **n/a**	Elevation (Case): **-**
Driller: **A. James**	Casing Diam. (mm): **n/a**	Easting (MGA): **-**
Drill Method: **Hand Augering**	Surface Completion: **Backfilled**	Northing (MGA): **-**
Hole Type: **Soil bore**	Water Strike (m bgl): **-**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Clayey Sand Brown to orange, moist, coarse-grained clayey sand										
					HA	X			BH13_0.2-0.25	Dup 6
Clayey Sand Orange, moist, medium-grained clayey sand										
End of Log			1 2 3 4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **AJ**

Client: **LMC**
Project No.: **Strathmont**
Project Name: **Strathmont Centre Soil Investigation**
Site Name: **Strathmont Centre**
Site Address: **Grand Junction Road, Oakden, SA**

ID: BH14

ERM

ERM Australia Pty Ltd

Drill Start Date: **5/31/2011**	Total Depth (m): **1.1**	Final Water Level (m bgl): **n/a**
Drill Finish Date: **5/31/2011**	Hole Diam. / Width (mm): **75**	Elevation (Ground): **-**
Drill Co: **ERM**	Casing Type: **n/a**	Elevation (Case): **-**
Driller: **A. James**	Casing Diam. (mm): **n/a**	Easting (MGA): **-**
Drill Method: **Hand Augering**	Surface Completion: **Backfilled**	Northing (MGA): **-**
Hole Type: **Soil bore**	Water Strike (m bgl): **-**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete Concrete at surface.										
Fill Hollow area under concrete slab										
Clayey Sand Brown, moist, non-plastic clayey sand					HA	X			BH14_0.5-0.6	
Sandy Clay Brown, moist sandy clay with low plasticity			1							
End of Log			2 3 4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **AJ**

Stockpile ID	*Stockpile Description*
Stockpile_A	Brown, moist, friable, fine sandy clay with some small gravel (~20%) and rock (<10%, <100mm) inclusions.
Stockpile_B + Dup 5	Grey-brown, moist, fine clayey sand with small gravel (~50%) and bitumen fragment (~20%) inclusions
Stockpile_C	Red-brown, coarse-grained clayey sand with small gravel inclusions (~40%)
Stockpile_D	Dark brown, moist loam with shredded wood inclusions (~75%)
Stockpile_E	Brown, moist, fine clayey sand topsoil with some grass roots

ATTACHMENT D

LABORATORY REPORTS AND

CHAIN OF CUSTODY DOCUMENTATION

Environmental Division

CERTIFICATE OF ANALYSIS

Work Order	: **EM1105772**	Page	: 1 of 25
Client	: **ENVIRO RESOURCES MANAGEMENT**	Laboratory	: Environmental Division Melbourne
Contact	: MR ANDREW JAMES	Contact	: Graeme Jablonskas
Address	: LEVEL 6, 185 VICTORIA SQUARE ADELAIDE SA 5000	Address	: 4 Westall Rd Springvale VIC Australia 3171
E-mail	: andrew.james@erm.com	E-mail	: graeme.jablonskas@alsenviro.com
Telephone	: +61 08 8460 0002	Telephone	: +61-3-8549 9609
Facsimile	: ----	Facsimile	: +61-3-8549 9601
Project	: STRATHMONT	QC Level	: NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Order number	: ----		
C-O-C number	: 209201-209203	Date Samples Received	: 01-JUN-2011
Sampler	: AJ	Issue Date	: 07-JUN-2011
Site	: ----		
		No. of samples received	: 33
Quote number	: EN/009/10	No. of samples analysed	: 24

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

NATA Accredited Laboratory 825

This document is issued in accordance with NATA accreditation requirements.

Accredited for compliance with ISO/IEC 17025.

WORLD RECOGNISED ACCREDITATION

Signatories

This document has been electronically signed by the authorized signatories indicated below. Electronic signing has been carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Eric Chau	Metals Team Leader	Melbourne Inorganics
Nancy Wang	Senior Semivolatile Instrument Chemist	Melbourne Organics
Xingbin Lin	Senior Organic Chemist	Melbourne Organics

General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insuffient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting

- **EP075: Particular samples required dilution prior to analysis due to matrix interferences. LOR values have been adjusted accordingly.**
- **EP075: 'Sum of PAH' is the sum of the USEPA 16 priority PAHs**

Analytical Results

Sub-Matrix: SOIL			Client sample ID	BH01_0.6-0.7	BH02_0.1-0.2	BH04_0.0-0.1	BH05_1.2-1.3	BH05_2.0-2.1
			Client sampling date / time	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00
Compound	CAS Number	LOR	Unit	EM1105772-001	EM1105772-003	EM1105772-006	EM1105772-008	EM1105772-009
EA055: Moisture Content								
^ Moisture Content (dried @ 103°C)	----	1.0	%	18.4	8.2	12.3	18.4	27.3
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	----	----	----
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	----	----	----
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	----	----	----
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	----	----	----
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	----	----	----
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	----	----	----
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	----	----	----
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	----	----	----
trans-Chlordane	5103-74-2	0.05	mg/kg	0.27	<0.05	----	----	----
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	----	----	----
cis-Chlordane	5103-71-9	0.05	mg/kg	0.40	<0.05	----	----	----
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	----	----	----
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	----	----	----
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	----	----	----
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	----	----	----
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	----	----	----
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	----	----	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	----	----	----
4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	----	----	----
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	----	----	----
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	----	----	----
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	----	----	<10	452	<10
C10 - C14 Fraction	----	50	mg/kg	----	----	<50	680	<50
C15 - C28 Fraction	----	100	mg/kg	----	----	140	<100	<100
C29 - C36 Fraction	----	100	mg/kg	----	----	200	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	----	----	340	680	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2010 Draft								
C6 - C10 Fraction	----	10	mg/kg	----	----	<10	887	<10
^ C6 - C10 Fraction minus BTEX (F1)	----	10	mg/kg	----	----	<10	602	<10
>C10 - C16 Fraction	----	50	mg/kg	----	----	<50	580	<50
>C16 - C34 Fraction	----	100	mg/kg	----	----	260	<100	<100
>C34 - C40 Fraction	----	100	mg/kg	----	----	230	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	----	----	490	580	<50
EP080: BTEX								
Benzene	71-43-2	0.2	mg/kg	----	----	<0.2	0.4	<0.2

Analytical Results

Sub-Matrix: SOIL			Client sample ID	BH01_0.6-0.7	BH02_0.1-0.2	BH04_0.0-0.1	BH05_1.2-1.3	BH05_2.0-2.1
			Client sampling date / time	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00
Compound	CAS Number	LOR	Unit	EM1105772-001	EM1105772-003	EM1105772-006	EM1105772-008	EM1105772-009
EP080: BTEX - Continued								
Toluene	108-88-3	0.5	mg/kg	----	----	<0.5	**15.1**	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	----	----	<0.5	**12.4**	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	----	----	<0.5	**176**	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	----	----	<0.5	**80.7**	<0.5
EP080: BTEXN								
^ Sum of BTEX	----	0.2	mg/kg	----	----	<0.2	**285**	<0.2
^ Total Xylenes	1330-20-7	0.5	mg/kg	----	----	<0.5	**257**	<0.5
Naphthalene	91-20-3	1	mg/kg	----	----	<1	**23**	<1
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.1	%	**95.6**	**98.0**	----	----	----
EP068T: Organophosphorus Pesticide Surrogate								
DEF	78-48-8	0.1	%	**87.4**	**93.4**	----	----	----
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.1	%	----	----	**87.7**	**77.0**	**83.2**
Toluene-D8	2037-26-5	0.1	%	----	----	**89.5**	**89.6**	**83.3**
4-Bromofluorobenzene	460-00-4	0.1	%	----	----	**84.3**	**80.4**	**83.1**

Analytical Results

Sub-Matrix: SOIL			Client sample ID	BH07_2.0-2.1	BH08_0.3-0.4	BH09_0.1-0.2	BH10_0.01-0.1	BH11_0.01-0.1
			Client sampling date / time	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00
Compound	CAS Number	LOR	Unit	EM1105772-013	EM1105772-015	EM1105772-017	EM1105772-018	EM1105772-019
EA055: Moisture Content								
^ Moisture Content (dried @ 103°C)	----	1.0	%	20.6	16.6	2.8	6.4	6.7
EG005T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	----	<5	<5	----	----
Barium	7440-39-3	10	mg/kg	----	80	40	----	----
Beryllium	7440-41-7	1	mg/kg	----	<1	<1	----	----
Cadmium	7440-43-9	1	mg/kg	----	<1	<1	----	----
Chromium	7440-47-3	2	mg/kg	----	12	9	----	----
Cobalt	7440-48-4	2	mg/kg	----	4	<2	----	----
Copper	7440-50-8	5	mg/kg	----	8	<5	----	----
Lead	7439-92-1	5	mg/kg	----	7	<5	----	----
Manganese	7439-96-5	5	mg/kg	----	135	28	----	----
Nickel	7440-02-0	2	mg/kg	----	6	6	----	----
Vanadium	7440-62-2	5	mg/kg	----	25	<5	----	----
Zinc	7440-66-6	5	mg/kg	----	11	<5	----	----
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	----	<0.1	<0.1	----	----
EP074A: Monocyclic Aromatic Hydrocarbons								
Benzene	71-43-2	0.2	mg/kg	----	<0.2	<0.2	----	----
Toluene	108-88-3	0.5	mg/kg	----	<0.5	<0.5	----	----
Ethylbenzene	100-41-4	0.5	mg/kg	----	<0.5	<0.5	----	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	----	<0.5	<0.5	----	----
Styrene	100-42-5	0.5	mg/kg	----	<0.5	<0.5	----	----
ortho-Xylene	95-47-6	0.5	mg/kg	----	<0.5	<0.5	----	----
Isopropylbenzene	98-82-8	0.5	mg/kg	----	<0.5	<0.5	----	----
n-Propylbenzene	103-65-1	0.5	mg/kg	----	<0.5	<0.5	----	----
1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	----	<0.5	<0.5	----	----
sec-Butylbenzene	135-98-8	0.5	mg/kg	----	<0.5	<0.5	----	----
1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	----	<0.5	<0.5	----	----
tert-Butylbenzene	98-06-6	0.5	mg/kg	----	<0.5	<0.5	----	----
p-Isopropyltoluene	99-87-6	0.5	mg/kg	----	<0.5	<0.5	----	----
n-Butylbenzene	104-51-8	0.5	mg/kg	----	<0.5	<0.5	----	----
EP074B: Oxygenated Compounds								
Vinyl Acetate	108-05-4	5	mg/kg	----	<5	<5	----	----
2-Butanone (MEK)	78-93-3	5	mg/kg	----	<5	<5	----	----
4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	----	<5	<5	----	----
2-Hexanone (MBK)	591-78-6	5	mg/kg	----	<5	<5	----	----
EP074C: Sulfonated Compounds								

Analytical Results

Sub-Matrix: SOIL			Client sample ID	BH07_2.0-2.1	BH08_0.3-0.4	BH09_0.1-0.2	BH10_0.01-0.1	BH11_0.01-0.1
			Client sampling date / time	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00
Compound	CAS Number	LOR	Unit	EM1105772-013	EM1105772-015	EM1105772-017	EM1105772-018	EM1105772-019
EP074C: Sulfonated Compounds - Continued								
Carbon disulfide	75-15-0	0.5	mg/kg	----	<0.5	<0.5	----	----
EP074D: Fumigants								
2.2-Dichloropropane	594-20-7	0.5	mg/kg	----	<0.5	<0.5	----	----
1.2-Dichloropropane	78-87-5	0.5	mg/kg	----	<0.5	<0.5	----	----
cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	----	<0.5	<0.5	----	----
trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	----	<0.5	<0.5	----	----
EP074E: Halogenated Aliphatic Compounds								
Dichlorodifluoromethane	75-71-8	5	mg/kg	----	<5	<5	----	----
Chloromethane	74-87-3	5	mg/kg	----	<5	<5	----	----
Vinyl chloride	75-01-4	5	mg/kg	----	<5	<5	----	----
Bromomethane	74-83-9	5	mg/kg	----	<5	<5	----	----
Chloroethane	75-00-3	5	mg/kg	----	<5	<5	----	----
Trichlorofluoromethane	75-69-4	5	mg/kg	----	<5	<5	----	----
1.1-Dichloroethene	75-35-4	0.5	mg/kg	----	<0.5	<0.5	----	----
Iodomethane	74-88-4	0.5	mg/kg	----	<0.5	<0.5	----	----
trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	----	<0.5	<0.5	----	----
1.1-Dichloroethane	75-34-3	0.5	mg/kg	----	<0.5	<0.5	----	----
cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	----	<0.5	<0.5	----	----
1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	----	<0.5	<0.5	----	----
1.1-Dichloropropylene	563-58-6	0.5	mg/kg	----	<0.5	<0.5	----	----
Carbon Tetrachloride	56-23-5	0.5	mg/kg	----	<0.5	<0.5	----	----
1.2-Dichloroethane	107-06-2	0.5	mg/kg	----	<0.5	<0.5	----	----
Trichloroethene	79-01-6	0.5	mg/kg	----	<0.5	<0.5	----	----
Dibromomethane	74-95-3	0.5	mg/kg	----	<0.5	<0.5	----	----
1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	----	<0.5	<0.5	----	----
1.3-Dichloropropane	142-28-9	0.5	mg/kg	----	<0.5	<0.5	----	----
Tetrachloroethene	127-18-4	0.5	mg/kg	----	<0.5	<0.5	----	----
1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	----	<0.5	<0.5	----	----
trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	----	<0.5	<0.5	----	----
cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	----	<0.5	<0.5	----	----
1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	----	<0.5	<0.5	----	----
1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	----	<0.5	<0.5	----	----
Pentachloroethane	76-01-7	0.5	mg/kg	----	<0.5	<0.5	----	----
1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	----	<0.5	<0.5	----	----
EP074F: Halogenated Aromatic Compounds								
Chlorobenzene	108-90-7	0.5	mg/kg	----	<0.5	<0.5	----	----
Bromobenzene	108-86-1	0.5	mg/kg	----	<0.5	<0.5	----	----
2-Chlorotoluene	95-49-8	0.5	mg/kg	----	<0.5	<0.5	----	----

Analytical Results

Sub-Matrix: SOIL			Client sample ID	BH07_2.0-2.1	BH08_0.3-0.4	BH09_0.1-0.2	BH10_0.01-0.1	BH11_0.01-0.1
			Client sampling date / time	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00
Compound	CAS Number	LOR	Unit	EM1105772-013	EM1105772-015	EM1105772-017	EM1105772-018	EM1105772-019
EP074F: Halogenated Aromatic Compounds - Continued								
4-Chlorotoluene	106-43-4	0.5	mg/kg	----	<0.5	<0.5	----	----
1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	----	<0.5	<0.5	----	----
EP074G: Trihalomethanes								
Chloroform	67-66-3	0.5	mg/kg	----	<0.5	<0.5	----	----
Bromodichloromethane	75-27-4	0.5	mg/kg	----	<0.5	<0.5	----	----
Dibromochloromethane	124-48-1	0.5	mg/kg	----	<0.5	<0.5	----	----
Bromoform	75-25-2	0.5	mg/kg	----	<0.5	<0.5	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	----	----	----	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	----	----	----	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	----	----	----	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	----	----	----	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	----	----	----	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg	----	----	----	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	----	----	----	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg	----	----	----	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	----	----	----	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg	----	----	----	<0.5	<0.5
Benzo(b)fluoranthene	205-99-2	0.5	mg/kg	----	----	----	<0.5	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	----	----	----	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg	----	----	----	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	----	----	----	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	----	----	----	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	----	----	----	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	----	----	----	<0.5	<0.5
EP075A: Phenolic Compounds								
Phenol	108-95-2	0.5	mg/kg	----	<0.5	<1.5	----	----
2-Chlorophenol	95-57-8	0.5	mg/kg	----	<0.5	<1.5	----	----
2-Methylphenol	95-48-7	0.5	mg/kg	----	<0.5	<1.5	----	----
3- & 4-Methylphenol	1319-77-3	0.5	mg/kg	----	<0.5	<1.5	----	----
2-Nitrophenol	88-75-5	0.5	mg/kg	----	<0.5	<1.5	----	----
2.4-Dimethylphenol	105-67-9	0.5	mg/kg	----	<0.5	<1.5	----	----
2.4-Dichlorophenol	120-83-2	0.5	mg/kg	----	<0.5	<1.5	----	----
2.6-Dichlorophenol	87-65-0	0.5	mg/kg	----	<0.5	<1.5	----	----
4-Chloro-3-Methylphenol	59-50-7	0.5	mg/kg	----	<0.5	<1.5	----	----
2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg	----	<0.5	<1.5	----	----
2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg	----	<0.5	<1.5	----	----

Analytical Results

Sub-Matrix: SOIL			Client sample ID	BH07_2.0-2.1	BH08_0.3-0.4	BH09_0.1-0.2	BH10_0.01-0.1	BH11_0.01-0.1
			Client sampling date / time	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00
Compound	CAS Number	LOR	Unit	EM1105772-013	EM1105772-015	EM1105772-017	EM1105772-018	EM1105772-019
EP075A: Phenolic Compounds - Continued								
Pentachlorophenol	87-86-5	1	mg/kg	----	<1	<3	----	----
EP075B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	----	<0.5	<1.5	----	----
2-Methylnaphthalene	91-57-6	0.5	mg/kg	----	<0.5	<1.5	----	----
2-Chloronaphthalene	91-58-7	0.5	mg/kg	----	<0.5	<1.5	----	----
Acenaphthylene	208-96-8	0.5	mg/kg	----	<0.5	<1.5	----	----
Acenaphthene	83-32-9	0.5	mg/kg	----	<0.5	<1.5	----	----
Fluorene	86-73-7	0.5	mg/kg	----	<0.5	<1.5	----	----
Phenanthrene	85-01-8	0.5	mg/kg	----	<0.5	<1.5	----	----
Anthracene	120-12-7	0.5	mg/kg	----	<0.5	<1.5	----	----
Fluoranthene	206-44-0	0.5	mg/kg	----	<0.5	<1.5	----	----
Pyrene	129-00-0	0.5	mg/kg	----	<0.5	<1.5	----	----
N-2-Fluorenyl Acetamide	53-96-3	0.5	mg/kg	----	<0.5	<1.5	----	----
Benz(a)anthracene	56-55-3	0.5	mg/kg	----	<0.5	<1.5	----	----
Chrysene	218-01-9	0.5	mg/kg	----	<0.5	<1.5	----	----
Benzo(b) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	----	<1	<3	----	----
7.12-Dimethylbenz(a)anthracene	57-97-6	0.5	mg/kg	----	<0.5	<1.5	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg	----	<0.5	<1.5	----	----
3-Methylcholanthrene	56-49-5	0.5	mg/kg	----	<0.5	<1.5	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	----	<0.5	<1.5	----	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	----	<0.5	<1.5	----	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	----	<0.5	<1.5	----	----
^ Sum of PAHs	----	0.5	mg/kg	----	<0.5	<1.5	----	----
EP075C: Phthalate Esters								
Dimethyl phthalate	131-11-3	0.5	mg/kg	----	<0.5	<1.5	----	----
Diethyl phthalate	84-66-2	0.5	mg/kg	----	<0.5	<1.5	----	----
Di-n-butyl phthalate	84-74-2	0.5	mg/kg	----	<0.5	<1.5	----	----
Butyl benzyl phthalate	85-68-7	0.5	mg/kg	----	<0.5	<1.5	----	----
bis(2-ethylhexyl) phthalate	117-81-7	0.5	mg/kg	----	<0.5	<1.5	----	----
Di-n-octylphthalate	117-84-0	0.5	mg/kg	----	<0.5	<1.5	----	----
EP075D: Nitrosamines								
N-Nitrosomethylethylamine	10595-95-6	0.5	mg/kg	----	<0.5	<1.5	----	----
N-Nitrosodiethylamine	55-18-5	0.5	mg/kg	----	<0.5	<1.5	----	----
N-Nitrosopyrrolidine	930-55-2	0.5	mg/kg	----	<0.5	<1.5	----	----
N-Nitrosomorpholine	59-89-2	0.5	mg/kg	----	<0.5	<1.5	----	----
N-Nitrosodi-n-propylamine	621-64-7	0.5	mg/kg	----	<0.5	<1.5	----	----
N-Nitrosopiperidine	100-75-4	0.5	mg/kg	----	<0.5	<1.5	----	----

Analytical Results

Sub-Matrix: SOIL			Client sample ID	BH07_2.0-2.1	BH08_0.3-0.4	BH09_0.1-0.2	BH10_0.01-0.1	BH11_0.01-0.1
			Client sampling date / time	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00
Compound	CAS Number	LOR	Unit	EM1105772-013	EM1105772-015	EM1105772-017	EM1105772-018	EM1105772-019
EP075D: Nitrosamines - Continued								
N-Nitrosodibutylamine	924-16-3	0.5	mg/kg	----	<0.5	<1.5	----	----
N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	0.5	mg/kg	----	<0.5	<1.5	----	----
Methapyrilene	91-80-5	0.5	mg/kg	----	<0.5	<1.5	----	----
EP075E: Nitroaromatics and Ketones								
2-Picoline	109-06-8	0.5	mg/kg	----	<0.5	<1.5	----	----
Acetophenone	98-86-2	0.5	mg/kg	----	<0.5	<1.5	----	----
Nitrobenzene	98-95-3	0.5	mg/kg	----	<0.5	<1.5	----	----
Isophorone	78-59-1	0.5	mg/kg	----	<0.5	<1.5	----	----
2.6-Dinitrotoluene	606-20-2	0.5	mg/kg	----	<0.5	<1.5	----	----
2.4-Dinitrotoluene	121-14-2	0.5	mg/kg	----	<0.5	<1.5	----	----
1-Naphthylamine	134-32-7	0.5	mg/kg	----	<0.5	<1.5	----	----
4-Nitroquinoline-N-oxide	56-57-5	0.5	mg/kg	----	<0.5	<1.5	----	----
5-Nitro-o-toluidine	99-55-8	0.5	mg/kg	----	<0.5	<1.5	----	----
Azobenzene	103-33-3	1	mg/kg	----	<1	<3	----	----
1.3.5-Trinitrobenzene	99-35-4	0.5	mg/kg	----	<0.5	<1.5	----	----
Phenacetin	62-44-2	0.5	mg/kg	----	<0.5	<1.5	----	----
4-Aminobiphenyl	92-67-1	0.5	mg/kg	----	<0.5	<1.5	----	----
Pentachloronitrobenzene	82-68-8	0.5	mg/kg	----	<0.5	<1.5	----	----
Pronamide	23950-58-5	0.5	mg/kg	----	<0.5	<1.5	----	----
Dimethylaminoazobenzene	60-11-7	0.5	mg/kg	----	<0.5	<1.5	----	----
Chlorobenzilate	510-15-6	0.5	mg/kg	----	<0.5	<1.5	----	----
EP075F: Haloethers								
Bis(2-chloroethyl) ether	111-44-4	0.5	mg/kg	----	<0.5	<1.5	----	----
Bis(2-chloroethoxy) methane	111-91-1	0.5	mg/kg	----	<0.5	<1.5	----	----
4-Chlorophenyl phenyl ether	7005-72-3	0.5	mg/kg	----	<0.5	<1.5	----	----
4-Bromophenyl phenyl ether	101-55-3	0.5	mg/kg	----	<0.5	<1.5	----	----
EP075G: Chlorinated Hydrocarbons								
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	----	<0.5	<1.5	----	----
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	----	<0.5	<1.5	----	----
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	----	<0.5	<1.5	----	----
Hexachloroethane	67-72-1	0.5	mg/kg	----	<0.5	<1.5	----	----
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	----	<0.5	<1.5	----	----
Hexachloropropylene	1888-71-7	0.5	mg/kg	----	<0.5	<1.5	----	----
Hexachlorobutadiene	87-68-3	0.5	mg/kg	----	<0.5	<1.5	----	----
Hexachlorocyclopentadiene	77-47-4	0.5	mg/kg	----	<0.5	<1.5	----	----
Pentachlorobenzene	608-93-5	0.5	mg/kg	----	<0.5	<1.5	----	----
Hexachlorobenzene (HCB)	118-74-1	0.5	mg/kg	----	<0.5	<1.5	----	----

Analytical Results

Sub-Matrix: SOIL			Client sample ID	BH07_2.0-2.1	BH08_0.3-0.4	BH09_0.1-0.2	BH10_0.01-0.1	BH11_0.01-0.1
			Client sampling date / time	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00
Compound	CAS Number	LOR	Unit	EM1105772-013	EM1105772-015	EM1105772-017	EM1105772-018	EM1105772-019
EP075H: Anilines and Benzidines								
Aniline	62-53-3	0.5	mg/kg	----	<0.5	<1.5	----	----
4-Chloroaniline	106-47-8	0.5	mg/kg	----	<0.5	<1.5	----	----
2-Nitroaniline	88-74-4	0.5	mg/kg	----	<0.5	<1.5	----	----
3-Nitroaniline	99-09-2	0.5	mg/kg	----	<0.5	<1.5	----	----
Dibenzofuran	132-64-9	0.5	mg/kg	----	<0.5	<1.5	----	----
4-Nitroaniline	100-01-6	0.5	mg/kg	----	<0.5	<1.5	----	----
Carbazole	86-74-8	0.5	mg/kg	----	<0.5	<1.5	----	----
3.3`-Dichlorobenzidine	91-94-1	0.5	mg/kg	----	<0.5	<1.5	----	----
EP075I: Organochlorine Pesticides								
alpha-BHC	319-84-6	0.5	mg/kg	----	<0.5	<1.5	----	----
beta-BHC	319-85-7	0.5	mg/kg	----	<0.5	<1.5	----	----
gamma-BHC	58-89-9	0.5	mg/kg	----	<0.5	<1.5	----	----
delta-BHC	319-86-8	0.5	mg/kg	----	<0.5	<1.5	----	----
Heptachlor	76-44-8	0.5	mg/kg	----	<0.5	<1.5	----	----
Aldrin	309-00-2	0.5	mg/kg	----	<0.5	<1.5	----	----
Heptachlor epoxide	1024-57-3	0.5	mg/kg	----	<0.5	<1.5	----	----
alpha-Endosulfan	959-98-8	0.5	mg/kg	----	<0.5	<1.5	----	----
4.4`-DDE	72-55-9	0.5	mg/kg	----	<0.5	<1.5	----	----
Dieldrin	60-57-1	0.5	mg/kg	----	<0.5	<1.5	----	----
Endrin	72-20-8	0.5	mg/kg	----	<0.5	<1.5	----	----
beta-Endosulfan	33213-65-9	0.5	mg/kg	----	<0.5	<1.5	----	----
4.4`-DDD	72-54-8	0.5	mg/kg	----	<0.5	<1.5	----	----
Endosulfan sulfate	1031-07-8	0.5	mg/kg	----	<0.5	<1.5	----	----
4.4`-DDT	50-29-3	0.5	mg/kg	----	<0.5	<1.5	----	----
EP075J: Organophosphorus Pesticides								
Dichlorvos	62-73-7	0.5	mg/kg	----	<0.5	<1.5	----	----
Dimethoate	60-51-5	0.5	mg/kg	----	<0.5	<1.5	----	----
Diazinon	333-41-5	0.5	mg/kg	----	<0.5	<1.5	----	----
Chlorpyrifos-methyl	5598-13-0	0.5	mg/kg	----	<0.5	<1.5	----	----
Malathion	121-75-5	0.5	mg/kg	----	<0.5	<1.5	----	----
Fenthion	55-38-9	0.5	mg/kg	----	<0.5	<1.5	----	----
Chlorpyrifos	2921-88-2	0.5	mg/kg	----	<0.5	<1.5	----	----
Pirimphos-ethyl	23505-41-1	0.5	mg/kg	----	<0.5	<1.5	----	----
Chlorfenvinphos	470-90-6	0.5	mg/kg	----	<0.5	<1.5	----	----
Prothiofos	34643-46-4	0.5	mg/kg	----	<0.5	<1.5	----	----
Ethion	563-12-2	0.5	mg/kg	----	<0.5	<1.5	----	----
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	**137**	----	----	----	----

Analytical Results

Sub-Matrix: SOIL			Client sample ID	BH07_2.0-2.1	BH08_0.3-0.4	BH09_0.1-0.2	BH10_0.01-0.1	BH11_0.01-0.1
			Client sampling date / time	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00
Compound	CAS Number	LOR	Unit	EM1105772-013	EM1105772-015	EM1105772-017	EM1105772-018	EM1105772-019
EP080/071: Total Petroleum Hydrocarbons - Continued								
C10 - C14 Fraction	----	50	mg/kg	<50	----	----	----	----
C15 - C28 Fraction	----	100	mg/kg	<100	----	----	----	----
C29 - C36 Fraction	----	100	mg/kg	<100	----	----	----	----
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	----	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2010 Draft								
C6 - C10 Fraction	----	10	mg/kg	**179**	----	----	----	----
^ C6 - C10 Fraction minus BTEX (F1)	----	10	mg/kg	**144**	----	----	----	----
>C10 - C16 Fraction	----	50	mg/kg	<50	----	----	----	----
>C16 - C34 Fraction	----	100	mg/kg	<100	----	----	----	----
>C34 - C40 Fraction	----	100	mg/kg	<100	----	----	----	----
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	----	----	----	----
EP080: BTEX								
Benzene	71-43-2	0.2	mg/kg	**1.2**	----	----	----	----
Toluene	108-88-3	0.5	mg/kg	**2.5**	----	----	----	----
Ethylbenzene	100-41-4	0.5	mg/kg	**5.7**	----	----	----	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	**19.2**	----	----	----	----
ortho-Xylene	95-47-6	0.5	mg/kg	**6.5**	----	----	----	----
EP080: BTEXN								
^ Sum of BTEX	----	0.2	mg/kg	**35.1**	----	----	----	----
^ Total Xylenes	1330-20-7	0.5	mg/kg	**25.7**	----	----	----	----
Naphthalene	91-20-3	1	mg/kg	**2**	----	----	----	----
EP074S: VOC Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.1	%	----	**86.8**	**108**	----	----
Toluene-D8	2037-26-5	0.1	%	----	**88.7**	**100**	----	----
4-Bromofluorobenzene	460-00-4	0.1	%	----	**85.0**	**99.7**	----	----
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.1	%	----	----	----	**81.3**	**78.2**
2-Chlorophenol-D4	93951-73-6	0.1	%	----	----	----	**87.7**	**84.8**
2.4.6-Tribromophenol	118-79-6	0.1	%	----	----	----	**83.9**	**84.5**
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.1	%	----	----	----	**81.4**	**84.4**
Anthracene-d10	1719-06-8	0.1	%	----	----	----	**106**	**118**
4-Terphenyl-d14	1718-51-0	0.1	%	----	----	----	**98.0**	**102**
EP075S: Acid Extractable Surrogates								
2-Fluorophenol	367-12-4	0.1	%	----	**74.7**	**102**	----	----
Phenol-d6	13127-88-3	0.1	%	----	**60.9**	**78.1**	----	----
2-Chlorophenol-D4	93951-73-6	0.1	%	----	**74.4**	**90.1**	----	----

Analytical Results

Sub-Matrix: SOIL			Client sample ID	BH07_2.0-2.1	BH08_0.3-0.4	BH09_0.1-0.2	BH10_0.01-0.1	BH11_0.01-0.1
			Client sampling date / time	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00
Compound	CAS Number	LOR	Unit	EM1105772-013	EM1105772-015	EM1105772-017	EM1105772-018	EM1105772-019
EP075S: Acid Extractable Surrogates - Continued								
2.4.6-Tribromophenol	118-79-6	0.1	%	----	65.8	69.1	----	----
EP075T: Base/Neutral Extractable Surrogates								
Nitrobenzene-D5	4165-60-0	0.1	%	----	70.1	82.5	----	----
1.2-Dichlorobenzene-D4	2199-69-1	0.1	%	----	61.7	79.7	----	----
2-Fluorobiphenyl	321-60-8	0.1	%	----	67.9	80.9	----	----
Anthracene-d10	1719-06-8	0.1	%	----	102	105	----	----
4-Terphenyl-d14	1718-51-0	0.1	%	----	105	111	----	----
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.1	%	80.9	----	----	----	----
Toluene-D8	2037-26-5	0.1	%	79.1	----	----	----	----
4-Bromofluorobenzene	460-00-4	0.1	%	85.1	----	----	----	----

Analytical Results

Sub-Matrix: SOIL			Client sample ID	BH12_0.01-0.1	BH13_0.2-0.25	BH14_0.5-0.6	STOCKPILE A	STOCKPILE B
			Client sampling date / time	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00
Compound	CAS Number	LOR	Unit	EM1105772-020	EM1105772-021	EM1105772-022	EM1105772-023	EM1105772-024
EA055: Moisture Content								
^ Moisture Content (dried @ 103°C)	----	1.0	%	2.6	9.0	28.7	24.5	15.8
EG005T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	----	----	----	<5	14
Barium	7440-39-3	10	mg/kg	----	----	----	170	80
Beryllium	7440-41-7	1	mg/kg	----	----	----	<1	<1
Cadmium	7440-43-9	1	mg/kg	----	----	----	<1	<1
Chromium	7440-47-3	2	mg/kg	----	----	----	17	17
Cobalt	7440-48-4	2	mg/kg	----	----	----	4	4
Copper	7440-50-8	5	mg/kg	----	----	----	8	11
Lead	7439-92-1	5	mg/kg	----	----	----	7	12
Manganese	7439-96-5	5	mg/kg	----	----	----	97	160
Nickel	7440-02-0	2	mg/kg	----	----	----	6	7
Vanadium	7440-62-2	5	mg/kg	----	----	----	69	30
Zinc	7440-66-6	5	mg/kg	----	----	----	17	22
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	----	----	----	<0.1	<0.1
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	----	<0.05	<0.05	----	----
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	----	<0.05	<0.05	----	----
beta-BHC	319-85-7	0.05	mg/kg	----	<0.05	<0.05	----	----
gamma-BHC	58-89-9	0.05	mg/kg	----	<0.05	<0.05	----	----
delta-BHC	319-86-8	0.05	mg/kg	----	<0.05	<0.05	----	----
Heptachlor	76-44-8	0.05	mg/kg	----	<0.05	<0.05	----	----
Aldrin	309-00-2	0.05	mg/kg	----	<0.05	<0.05	----	----
Heptachlor epoxide	1024-57-3	0.05	mg/kg	----	<0.05	<0.05	----	----
trans-Chlordane	5103-74-2	0.05	mg/kg	----	<0.05	0.07	----	----
alpha-Endosulfan	959-98-8	0.05	mg/kg	----	<0.05	<0.05	----	----
cis-Chlordane	5103-71-9	0.05	mg/kg	----	<0.05	0.12	----	----
Dieldrin	60-57-1	0.05	mg/kg	----	<0.05	<0.05	----	----
4.4`-DDE	72-55-9	0.05	mg/kg	----	<0.05	<0.05	----	----
Endrin	72-20-8	0.05	mg/kg	----	<0.05	<0.05	----	----
beta-Endosulfan	33213-65-9	0.05	mg/kg	----	<0.05	<0.05	----	----
4.4`-DDD	72-54-8	0.05	mg/kg	----	<0.05	<0.05	----	----
Endrin aldehyde	7421-93-4	0.05	mg/kg	----	<0.05	<0.05	----	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg	----	<0.05	<0.05	----	----
4.4`-DDT	50-29-3	0.2	mg/kg	----	<0.2	<0.2	----	----
Endrin ketone	53494-70-5	0.05	mg/kg	----	<0.05	<0.05	----	----
Methoxychlor	72-43-5	0.2	mg/kg	----	<0.2	<0.2	----	----

Analytical Results

Sub-Matrix: SOIL			Client sample ID	BH12_0.01-0.1	BH13_0.2-0.25	BH14_0.5-0.6	STOCKPILE A	STOCKPILE B
			Client sampling date / time	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00
Compound	CAS Number	LOR	Unit	EM1105772-020	EM1105772-021	EM1105772-022	EM1105772-023	EM1105772-024
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	----	----	----	----
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	----	----	----	----
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	----	----	----	----
Fluorene	86-73-7	0.5	mg/kg	<0.5	----	----	----	----
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	----	----	----	----
Anthracene	120-12-7	0.5	mg/kg	<0.5	----	----	----	----
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	----	----	----	----
Pyrene	129-00-0	0.5	mg/kg	<0.5	----	----	----	----
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	----	----	----	----
Chrysene	218-01-9	0.5	mg/kg	<0.5	----	----	----	----
Benzo(b)fluoranthene	205-99-2	0.5	mg/kg	<0.5	----	----	----	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	----	----	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	----	----	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	----	----	----	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	----	----	----	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	----	----	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	----	----	----	----
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.1	%	----	**80.0**	**66.1**	----	----
EP068T: Organophosphorus Pesticide Surrogate								
DEF	78-48-8	0.1	%	----	**79.0**	**64.9**	----	----
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.1	%	**74.8**	----	----	----	----
2-Chlorophenol-D4	93951-73-6	0.1	%	**81.5**	----	----	----	----
2.4.6-Tribromophenol	118-79-6	0.1	%	**81.4**	----	----	----	----
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.1	%	**81.2**	----	----	----	----
Anthracene-d10	1719-06-8	0.1	%	**104**	----	----	----	----
4-Terphenyl-d14	1718-51-0	0.1	%	**95.2**	----	----	----	----

Analytical Results

Sub-Matrix: SOIL			Client sample ID	STOCKPILE C	STOCKPILE D	STOCKPILE E	DUP 1	DUP 2
			Client sampling date / time	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00
Compound	CAS Number	LOR	Unit	EM1105772-025	EM1105772-026	EM1105772-027	EM1105772-028	EM1105772-029
EA055: Moisture Content								
^ Moisture Content (dried @ 103°C)	----	1.0	%	8.4	22.0	15.8	12.5	20.3
EG005T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	<5	<5	<5	----	----
Barium	7440-39-3	10	mg/kg	390	100	70	----	----
Beryllium	7440-41-7	1	mg/kg	<1	<1	<1	----	----
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	----	----
Chromium	7440-47-3	2	mg/kg	5	19	11	----	----
Cobalt	7440-48-4	2	mg/kg	<2	4	2	----	----
Copper	7440-50-8	5	mg/kg	29	25	12	----	----
Lead	7439-92-1	5	mg/kg	17	14	18	----	----
Manganese	7439-96-5	5	mg/kg	108	210	185	----	----
Nickel	7440-02-0	2	mg/kg	4	9	5	----	----
Vanadium	7440-62-2	5	mg/kg	11	36	30	----	----
Zinc	7440-66-6	5	mg/kg	100	38	45	----	----
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	----	----
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	----	----	----	<10	70
C10 - C14 Fraction	----	50	mg/kg	----	----	----	<50	90
C15 - C28 Fraction	----	100	mg/kg	----	----	----	<100	<100
C29 - C36 Fraction	----	100	mg/kg	----	----	----	140	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	----	----	----	140	90
EP080/071: Total Recoverable Hydrocarbons - NEPM 2010 Draft								
C6 - C10 Fraction	----	10	mg/kg	----	----	----	<10	153
^ C6 - C10 Fraction minus BTEX (F1)	----	10	mg/kg	----	----	----	<10	107
>C10 - C16 Fraction	----	50	mg/kg	----	----	----	<50	110
>C16 - C34 Fraction	----	100	mg/kg	----	----	----	150	<100
>C34 - C40 Fraction	----	100	mg/kg	----	----	----	170	110
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	----	----	----	320	220
EP080: BTEX								
Benzene	71-43-2	0.2	mg/kg	----	----	----	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg	----	----	----	<0.5	2.6
Ethylbenzene	100-41-4	0.5	mg/kg	----	----	----	<0.5	2.1
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	----	----	----	<0.5	27.5
ortho-Xylene	95-47-6	0.5	mg/kg	----	----	----	<0.5	13.6
EP080: BTEXN								
^ Sum of BTEX	----	0.2	mg/kg	----	----	----	<0.2	45.8

Analytical Results

Sub-Matrix: SOIL			Client sample ID	STOCKPILE C	STOCKPILE D	STOCKPILE E	DUP 1	DUP 2
			Client sampling date / time	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00
Compound	CAS Number	LOR	Unit	EM1105772-025	EM1105772-026	EM1105772-027	EM1105772-028	EM1105772-029
EP080: BTEXN - Continued								
^ Total Xylenes	1330-20-7	0.5	mg/kg	----	----	----	<0.5	**41.1**
Naphthalene	91-20-3	1	mg/kg	----	----	----	<1	**7**
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.1	%	----	----	----	**87.9**	**94.3**
Toluene-D8	2037-26-5	0.1	%	----	----	----	**86.5**	**90.8**
4-Bromofluorobenzene	460-00-4	0.1	%	----	----	----	**89.3**	**93.3**

Analytical Results

Sub-Matrix: SOIL			Client sample ID	DUP 3	DUP 4	DUP 5	DUP 6	----
			Client sampling date / time	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00	----
Compound	CAS Number	LOR	Unit	EM1105772-030	EM1105772-031	EM1105772-032	EM1105772-033	----
EA055: Moisture Content								
^ Moisture Content (dried @ 103°C)	----	1.0	%	2.6	3.0	21.6	10.5	----
EG005T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	<5	----	35	----	----
Barium	7440-39-3	10	mg/kg	30	----	110	----	----
Beryllium	7440-41-7	1	mg/kg	<1	----	<1	----	----
Cadmium	7440-43-9	1	mg/kg	<1	----	<1	----	----
Chromium	7440-47-3	2	mg/kg	4	----	20	----	----
Cobalt	7440-48-4	2	mg/kg	<2	----	5	----	----
Copper	7440-50-8	5	mg/kg	<5	----	13	----	----
Lead	7439-92-1	5	mg/kg	6	----	13	----	----
Manganese	7439-96-5	5	mg/kg	35	----	190	----	----
Nickel	7440-02-0	2	mg/kg	3	----	8	----	----
Vanadium	7440-62-2	5	mg/kg	<5	----	44	----	----
Zinc	7440-66-6	5	mg/kg	8	----	24	----	----
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	----	<0.1	----	----
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	----	----	----	<0.05	----
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	----	----	----	<0.05	----
beta-BHC	319-85-7	0.05	mg/kg	----	----	----	<0.05	----
gamma-BHC	58-89-9	0.05	mg/kg	----	----	----	<0.05	----
delta-BHC	319-86-8	0.05	mg/kg	----	----	----	<0.05	----
Heptachlor	76-44-8	0.05	mg/kg	----	----	----	<0.05	----
Aldrin	309-00-2	0.05	mg/kg	----	----	----	<0.05	----
Heptachlor epoxide	1024-57-3	0.05	mg/kg	----	----	----	<0.05	----
trans-Chlordane	5103-74-2	0.05	mg/kg	----	----	----	<0.05	----
alpha-Endosulfan	959-98-8	0.05	mg/kg	----	----	----	<0.05	----
cis-Chlordane	5103-71-9	0.05	mg/kg	----	----	----	<0.05	----
Dieldrin	60-57-1	0.05	mg/kg	----	----	----	<0.05	----
4.4`-DDE	72-55-9	0.05	mg/kg	----	----	----	<0.05	----
Endrin	72-20-8	0.05	mg/kg	----	----	----	<0.05	----
beta-Endosulfan	33213-65-9	0.05	mg/kg	----	----	----	<0.05	----
4.4`-DDD	72-54-8	0.05	mg/kg	----	----	----	<0.05	----
Endrin aldehyde	7421-93-4	0.05	mg/kg	----	----	----	<0.05	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg	----	----	----	<0.05	----
4.4`-DDT	50-29-3	0.2	mg/kg	----	----	----	<0.2	----
Endrin ketone	53494-70-5	0.05	mg/kg	----	----	----	<0.05	----
Methoxychlor	72-43-5	0.2	mg/kg	----	----	----	<0.2	----

Analytical Results

Sub-Matrix: SOIL			Client sample ID	DUP 3	DUP 4	DUP 5	DUP 6	----
			Client sampling date / time	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00	----
Compound	CAS Number	LOR	Unit	EM1105772-030	EM1105772-031	EM1105772-032	EM1105772-033	----
EP074A: Monocyclic Aromatic Hydrocarbons								
Benzene	71-43-2	0.2	mg/kg	<0.2	----	----	----	----
Toluene	108-88-3	0.5	mg/kg	<0.5	----	----	----	----
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	----	----	----	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	----	----	----	----
Styrene	100-42-5	0.5	mg/kg	<0.5	----	----	----	----
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	----	----	----	----
Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	----	----	----	----
n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	----	----	----	----
1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	----	----	----	----
sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	----	----	----	----
1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	----	----	----	----
tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	----	----	----	----
p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	----	----	----	----
n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	----	----	----	----
EP074B: Oxygenated Compounds								
Vinyl Acetate	108-05-4	5	mg/kg	<5	----	----	----	----
2-Butanone (MEK)	78-93-3	5	mg/kg	<5	----	----	----	----
4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	----	----	----	----
2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	----	----	----	----
EP074C: Sulfonated Compounds								
Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	----	----	----	----
EP074D: Fumigants								
2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	----	----	----	----
1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	----	----	----	----
cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	----	----	----	----
trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	----	----	----	----
EP074E: Halogenated Aliphatic Compounds								
Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	----	----	----	----
Chloromethane	74-87-3	5	mg/kg	<5	----	----	----	----
Vinyl chloride	75-01-4	5	mg/kg	<5	----	----	----	----
Bromomethane	74-83-9	5	mg/kg	<5	----	----	----	----
Chloroethane	75-00-3	5	mg/kg	<5	----	----	----	----
Trichlorofluoromethane	75-69-4	5	mg/kg	<5	----	----	----	----
1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	----	----	----	----
Iodomethane	74-88-4	0.5	mg/kg	<0.5	----	----	----	----
trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	----	----	----	----
1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	----	----	----	----
cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	----	----	----	----

Analytical Results

Sub-Matrix: SOIL			Client sample ID	DUP 3	DUP 4	DUP 5	DUP 6	----
			Client sampling date / time	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00	----
Compound	CAS Number	LOR	Unit	EM1105772-030	EM1105772-031	EM1105772-032	EM1105772-033	----
EP074E: Halogenated Aliphatic Compounds - Continued								
1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	----	----	----	----
1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	----	----	----	----
Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	----	----	----	----
1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	----	----	----	----
Trichloroethene	79-01-6	0.5	mg/kg	<0.5	----	----	----	----
Dibromomethane	74-95-3	0.5	mg/kg	<0.5	----	----	----	----
1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	----	----	----	----
1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	----	----	----	----
Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	----	----	----	----
1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	----	----	----	----
trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	----	----	----	----
cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	----	----	----	----
1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	----	----	----	----
1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	----	----	----	----
Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	----	----	----	----
1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	----	----	----	----
EP074F: Halogenated Aromatic Compounds								
Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	----	----	----	----
Bromobenzene	108-86-1	0.5	mg/kg	<0.5	----	----	----	----
2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	----	----	----	----
4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	----	----	----	----
1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	----	----	----	----
EP074G: Trihalomethanes								
Chloroform	67-66-3	0.5	mg/kg	<0.5	----	----	----	----
Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	----	----	----	----
Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	----	----	----	----
Bromoform	75-25-2	0.5	mg/kg	<0.5	----	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	----	<0.5	----	----	----
Acenaphthylene	208-96-8	0.5	mg/kg	----	<0.5	----	----	----
Acenaphthene	83-32-9	0.5	mg/kg	----	<0.5	----	----	----
Fluorene	86-73-7	0.5	mg/kg	----	<0.5	----	----	----
Phenanthrene	85-01-8	0.5	mg/kg	----	<0.5	----	----	----
Anthracene	120-12-7	0.5	mg/kg	----	<0.5	----	----	----
Fluoranthene	206-44-0	0.5	mg/kg	----	<0.5	----	----	----
Pyrene	129-00-0	0.5	mg/kg	----	<0.5	----	----	----
Benz(a)anthracene	56-55-3	0.5	mg/kg	----	<0.5	----	----	----
Chrysene	218-01-9	0.5	mg/kg	----	<0.5	----	----	----

Analytical Results

Sub-Matrix: SOIL			Client sample ID	DUP 3	DUP 4	DUP 5	DUP 6	----
			Client sampling date / time	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00	----
Compound	CAS Number	LOR	Unit	EM1105772-030	EM1105772-031	EM1105772-032	EM1105772-033	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued								
Benzo(b)fluoranthene	205-99-2	0.5	mg/kg	----	<0.5	----	----	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	----	<0.5	----	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg	----	<0.5	----	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	----	<0.5	----	----	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	----	<0.5	----	----	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	----	<0.5	----	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	----	<0.5	----	----	----
EP075A: Phenolic Compounds								
Phenol	108-95-2	0.5	mg/kg	<2.5	----	----	----	----
2-Chlorophenol	95-57-8	0.5	mg/kg	<2.5	----	----	----	----
2-Methylphenol	95-48-7	0.5	mg/kg	<2.5	----	----	----	----
3- & 4-Methylphenol	1319-77-3	0.5	mg/kg	<2.5	----	----	----	----
2-Nitrophenol	88-75-5	0.5	mg/kg	<2.5	----	----	----	----
2.4-Dimethylphenol	105-67-9	0.5	mg/kg	<2.5	----	----	----	----
2.4-Dichlorophenol	120-83-2	0.5	mg/kg	<2.5	----	----	----	----
2.6-Dichlorophenol	87-65-0	0.5	mg/kg	<2.5	----	----	----	----
4-Chloro-3-Methylphenol	59-50-7	0.5	mg/kg	<2.5	----	----	----	----
2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg	<2.5	----	----	----	----
2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg	<2.5	----	----	----	----
Pentachlorophenol	87-86-5	1	mg/kg	<5	----	----	----	----
EP075B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<2.5	----	----	----	----
2-Methylnaphthalene	91-57-6	0.5	mg/kg	<2.5	----	----	----	----
2-Chloronaphthalene	91-58-7	0.5	mg/kg	<2.5	----	----	----	----
Acenaphthylene	208-96-8	0.5	mg/kg	<2.5	----	----	----	----
Acenaphthene	83-32-9	0.5	mg/kg	<2.5	----	----	----	----
Fluorene	86-73-7	0.5	mg/kg	<2.5	----	----	----	----
Phenanthrene	85-01-8	0.5	mg/kg	<2.5	----	----	----	----
Anthracene	120-12-7	0.5	mg/kg	<2.5	----	----	----	----
Fluoranthene	206-44-0	0.5	mg/kg	<2.5	----	----	----	----
Pyrene	129-00-0	0.5	mg/kg	<2.5	----	----	----	----
N-2-Fluorenyl Acetamide	53-96-3	0.5	mg/kg	<2.5	----	----	----	----
Benz(a)anthracene	56-55-3	0.5	mg/kg	<2.5	----	----	----	----
Chrysene	218-01-9	0.5	mg/kg	<2.5	----	----	----	----
Benzo(b) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	<5	----	----	----	----
7.12-Dimethylbenz(a)anthracene	57-97-6	0.5	mg/kg	<2.5	----	----	----	----

Analytical Results

Sub-Matrix: SOIL			Client sample ID	DUP 3	DUP 4	DUP 5	DUP 6	----
			Client sampling date / time	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00	----
Compound	CAS Number	LOR	Unit	EM1105772-030	EM1105772-031	EM1105772-032	EM1105772-033	----
EP075B: Polynuclear Aromatic Hydrocarbons - Continued								
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<2.5	----	----	----	----
3-Methylcholanthrene	56-49-5	0.5	mg/kg	<2.5	----	----	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<2.5	----	----	----	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<2.5	----	----	----	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<2.5	----	----	----	----
^ Sum of PAHs	----	0.5	mg/kg	<2.5	----	----	----	----
EP075C: Phthalate Esters								
Dimethyl phthalate	131-11-3	0.5	mg/kg	<2.5	----	----	----	----
Diethyl phthalate	84-66-2	0.5	mg/kg	<2.5	----	----	----	----
Di-n-butyl phthalate	84-74-2	0.5	mg/kg	<2.5	----	----	----	----
Butyl benzyl phthalate	85-68-7	0.5	mg/kg	<2.5	----	----	----	----
bis(2-ethylhexyl) phthalate	117-81-7	0.5	mg/kg	<2.5	----	----	----	----
Di-n-octylphthalate	117-84-0	0.5	mg/kg	<2.5	----	----	----	----
EP075D: Nitrosamines								
N-Nitrosomethylethylamine	10595-95-6	0.5	mg/kg	<2.5	----	----	----	----
N-Nitrosodiethylamine	55-18-5	0.5	mg/kg	<2.5	----	----	----	----
N-Nitrosopyrrolidine	930-55-2	0.5	mg/kg	<2.5	----	----	----	----
N-Nitrosomorpholine	59-89-2	0.5	mg/kg	<2.5	----	----	----	----
N-Nitrosodi-n-propylamine	621-64-7	0.5	mg/kg	<2.5	----	----	----	----
N-Nitrosopiperidine	100-75-4	0.5	mg/kg	<2.5	----	----	----	----
N-Nitrosodibutylamine	924-16-3	0.5	mg/kg	<2.5	----	----	----	----
N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	0.5	mg/kg	<2.5	----	----	----	----
Methapyrilene	91-80-5	0.5	mg/kg	<2.5	----	----	----	----
EP075E: Nitroaromatics and Ketones								
2-Picoline	109-06-8	0.5	mg/kg	<2.5	----	----	----	----
Acetophenone	98-86-2	0.5	mg/kg	<2.5	----	----	----	----
Nitrobenzene	98-95-3	0.5	mg/kg	<2.5	----	----	----	----
Isophorone	78-59-1	0.5	mg/kg	<2.5	----	----	----	----
2.6-Dinitrotoluene	606-20-2	0.5	mg/kg	<2.5	----	----	----	----
2.4-Dinitrotoluene	121-14-2	0.5	mg/kg	<2.5	----	----	----	----
1-Naphthylamine	134-32-7	0.5	mg/kg	<2.5	----	----	----	----
4-Nitroquinoline-N-oxide	56-57-5	0.5	mg/kg	<2.5	----	----	----	----
5-Nitro-o-toluidine	99-55-8	0.5	mg/kg	<2.5	----	----	----	----
Azobenzene	103-33-3	1	mg/kg	<5	----	----	----	----
1.3.5-Trinitrobenzene	99-35-4	0.5	mg/kg	<2.5	----	----	----	----
Phenacetin	62-44-2	0.5	mg/kg	<2.5	----	----	----	----
4-Aminobiphenyl	92-67-1	0.5	mg/kg	<2.5	----	----	----	----

Analytical Results

Sub-Matrix: SOIL			Client sample ID	DUP 3	DUP 4	DUP 5	DUP 6	----
			Client sampling date / time	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00	----
Compound	CAS Number	LOR	Unit	EM1105772-030	EM1105772-031	EM1105772-032	EM1105772-033	----
EP075E: Nitroaromatics and Ketones - Continued								
Pentachloronitrobenzene	82-68-8	0.5	mg/kg	<2.5	----	----	----	----
Pronamide	23950-58-5	0.5	mg/kg	<2.5	----	----	----	----
Dimethylaminoazobenzene	60-11-7	0.5	mg/kg	<2.5	----	----	----	----
Chlorobenzilate	510-15-6	0.5	mg/kg	<2.5	----	----	----	----
EP075F: Haloethers								
Bis(2-chloroethyl) ether	111-44-4	0.5	mg/kg	<2.5	----	----	----	----
Bis(2-chloroethoxy) methane	111-91-1	0.5	mg/kg	<2.5	----	----	----	----
4-Chlorophenyl phenyl ether	7005-72-3	0.5	mg/kg	<2.5	----	----	----	----
4-Bromophenyl phenyl ether	101-55-3	0.5	mg/kg	<2.5	----	----	----	----
EP075G: Chlorinated Hydrocarbons								
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<2.5	----	----	----	----
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<2.5	----	----	----	----
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<2.5	----	----	----	----
Hexachloroethane	67-72-1	0.5	mg/kg	<2.5	----	----	----	----
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<2.5	----	----	----	----
Hexachloropropylene	1888-71-7	0.5	mg/kg	<2.5	----	----	----	----
Hexachlorobutadiene	87-68-3	0.5	mg/kg	<2.5	----	----	----	----
Hexachlorocyclopentadiene	77-47-4	0.5	mg/kg	<2.5	----	----	----	----
Pentachlorobenzene	608-93-5	0.5	mg/kg	<2.5	----	----	----	----
Hexachlorobenzene (HCB)	118-74-1	0.5	mg/kg	<2.5	----	----	----	----
EP075H: Anilines and Benzidines								
Aniline	62-53-3	0.5	mg/kg	<2.5	----	----	----	----
4-Chloroaniline	106-47-8	0.5	mg/kg	<2.5	----	----	----	----
2-Nitroaniline	88-74-4	0.5	mg/kg	<2.5	----	----	----	----
3-Nitroaniline	99-09-2	0.5	mg/kg	<2.5	----	----	----	----
Dibenzofuran	132-64-9	0.5	mg/kg	<2.5	----	----	----	----
4-Nitroaniline	100-01-6	0.5	mg/kg	<2.5	----	----	----	----
Carbazole	86-74-8	0.5	mg/kg	<2.5	----	----	----	----
3.3`-Dichlorobenzidine	91-94-1	0.5	mg/kg	<2.5	----	----	----	----
EP075I: Organochlorine Pesticides								
alpha-BHC	319-84-6	0.5	mg/kg	<2.5	----	----	----	----
beta-BHC	319-85-7	0.5	mg/kg	<2.5	----	----	----	----
gamma-BHC	58-89-9	0.5	mg/kg	<2.5	----	----	----	----
delta-BHC	319-86-8	0.5	mg/kg	<2.5	----	----	----	----
Heptachlor	76-44-8	0.5	mg/kg	<2.5	----	----	----	----
Aldrin	309-00-2	0.5	mg/kg	<2.5	----	----	----	----
Heptachlor epoxide	1024-57-3	0.5	mg/kg	<2.5	----	----	----	----
alpha-Endosulfan	959-98-8	0.5	mg/kg	<2.5	----	----	----	----

Analytical Results

Sub-Matrix: SOIL			Client sample ID	DUP 3	DUP 4	DUP 5	DUP 6	----
			Client sampling date / time	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00	----
Compound	CAS Number	LOR	Unit	EM1105772-030	EM1105772-031	EM1105772-032	EM1105772-033	----
EP075I: Organochlorine Pesticides - Continued								
4.4`-DDE	72-55-9	0.5	mg/kg	<2.5	----	----	----	----
Dieldrin	60-57-1	0.5	mg/kg	<2.5	----	----	----	----
Endrin	72-20-8	0.5	mg/kg	<2.5	----	----	----	----
beta-Endosulfan	33213-65-9	0.5	mg/kg	<2.5	----	----	----	----
4.4`-DDD	72-54-8	0.5	mg/kg	<2.5	----	----	----	----
Endosulfan sulfate	1031-07-8	0.5	mg/kg	<2.5	----	----	----	----
4.4`-DDT	50-29-3	0.5	mg/kg	<2.5	----	----	----	----
EP075J: Organophosphorus Pesticides								
Dichlorvos	62-73-7	0.5	mg/kg	<2.5	----	----	----	----
Dimethoate	60-51-5	0.5	mg/kg	<2.5	----	----	----	----
Diazinon	333-41-5	0.5	mg/kg	<2.5	----	----	----	----
Chlorpyrifos-methyl	5598-13-0	0.5	mg/kg	<2.5	----	----	----	----
Malathion	121-75-5	0.5	mg/kg	<2.5	----	----	----	----
Fenthion	55-38-9	0.5	mg/kg	<2.5	----	----	----	----
Chlorpyrifos	2921-88-2	0.5	mg/kg	<2.5	----	----	----	----
Pirimphos-ethyl	23505-41-1	0.5	mg/kg	<2.5	----	----	----	----
Chlorfenvinphos	470-90-6	0.5	mg/kg	<2.5	----	----	----	----
Prothiofos	34643-46-4	0.5	mg/kg	<2.5	----	----	----	----
Ethion	563-12-2	0.5	mg/kg	<2.5	----	----	----	----
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.1	%	----	----	----	**68.6**	----
EP068T: Organophosphorus Pesticide Surrogate								
DEF	78-48-8	0.1	%	----	----	----	**69.1**	----
EP074S: VOC Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.1	%	**102**	----	----	----	----
Toluene-D8	2037-26-5	0.1	%	**96.2**	----	----	----	----
4-Bromofluorobenzene	460-00-4	0.1	%	**93.8**	----	----	----	----
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.1	%	----	**76.6**	----	----	----
2-Chlorophenol-D4	93951-73-6	0.1	%	----	**84.1**	----	----	----
2.4.6-Tribromophenol	118-79-6	0.1	%	----	**80.1**	----	----	----
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.1	%	----	**80.6**	----	----	----
Anthracene-d10	1719-06-8	0.1	%	----	**98.7**	----	----	----
4-Terphenyl-d14	1718-51-0	0.1	%	----	**92.5**	----	----	----
EP075S: Acid Extractable Surrogates								
2-Fluorophenol	367-12-4	0.1	%	**85.2**	----	----	----	----

Analytical Results

Sub-Matrix: SOIL			Client sample ID	DUP 3	DUP 4	DUP 5	DUP 6	----
			Client sampling date / time	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00	31-MAY-2011 15:00	----
Compound	CAS Number	LOR	Unit	EM1105772-030	EM1105772-031	EM1105772-032	EM1105772-033	----
EP075S: Acid Extractable Surrogates - Continued								
Phenol-d6	13127-88-3	0.1	%	**70.5**	----	----	----	----
2-Chlorophenol-D4	93951-73-6	0.1	%	**87.9**	----	----	----	----
2.4.6-Tribromophenol	118-79-6	0.1	%	**46.6**	----	----	----	----
EP075T: Base/Neutral Extractable Surrogates								
Nitrobenzene-D5	4165-60-0	0.1	%	**77.1**	----	----	----	----
1.2-Dichlorobenzene-D4	2199-69-1	0.1	%	**76.0**	----	----	----	----
2-Fluorobiphenyl	321-60-8	0.1	%	**77.5**	----	----	----	----
Anthracene-d10	1719-06-8	0.1	%	**89.9**	----	----	----	----
4-Terphenyl-d14	1718-51-0	0.1	%	**106**	----	----	----	----

Surrogate Control Limits

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP068S: Organochlorine Pesticide Surrogate			
Dibromo-DDE	21655-73-2	26.3	144
EP068T: Organophosphorus Pesticide Surrogate			
DEF	78-48-8	6.9	167
EP074S: VOC Surrogates			
1.2-Dichloroethane-D4	17060-07-0	62	122
Toluene-D8	2037-26-5	64	120
4-Bromofluorobenzene	460-00-4	66	124
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	53	125
2-Chlorophenol-D4	93951-73-6	57	123
2.4.6-Tribromophenol	118-79-6	28	130
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	62	128
Anthracene-d10	1719-06-8	68	142
4-Terphenyl-d14	1718-51-0	67	135
EP075S: Acid Extractable Surrogates			
2-Fluorophenol	367-12-4	14	126
Phenol-d6	13127-88-3	10	122
2-Chlorophenol-D4	93951-73-6	13.2	127
2.4.6-Tribromophenol	118-79-6	10	133
EP075T: Base/Neutral Extractable Surrogates			
Nitrobenzene-D5	4165-60-0	10	128
1.2-Dichlorobenzene-D4	2199-69-1	10	108
2-Fluorobiphenyl	321-60-8	10	127
Anthracene-d10	1719-06-8	14.5	142
4-Terphenyl-d14	1718-51-0	12.4	138
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	57	129
Toluene-D8	2037-26-5	58	120
4-Bromofluorobenzene	460-00-4	56	126

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division

QUALITY CONTROL REPORT

Work Order	: **EM1105772**	Page	: 1 of 24
Client	: **ENVIRO RESOURCES MANAGEMENT**	Laboratory	: Environmental Division Melbourne
Contact	: MR ANDREW JAMES	Contact	: Graeme Jablonskas
Address	: LEVEL 6, 185 VICTORIA SQUARE ADELAIDE SA 5000	Address	: 4 Westall Rd Springvale VIC Australia 3171
E-mail	: andrew.james@erm.com	E-mail	: graeme.jablonskas@alsenviro.com
Telephone	: +61 08 8460 0002	Telephone	: +61-3-8549 9609
Facsimile	: ----	Facsimile	: +61-3-8549 9601
Project	: STRATHMONT	QC Level	: NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Site	: ----		
C-O-C number	: 209201-209203	Date Samples Received	: 01-JUN-2011
Sampler	: AJ	Issue Date	: 07-JUN-2011
Order number	: ----		
		No. of samples received	: 33
Quote number	: EN/009/10	No. of samples analysed	: 24

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

NATA
WORLD RECOGNISED ACCREDITATION

NATA Accredited Laboratory 825

This document is issued in accordance with NATA accreditation requirements.

Accredited for compliance with ISO/IEC 17025.

Signatories

This document has been electronically signed by the authorized signatories indicated below. Electronic signing has been carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Eric Chau	Metals Team Leader	Melbourne Inorganics
Nancy Wang	Senior Semivolatile Instrument Chemist	Melbourne Organics
Xingbin Lin	Senior Organic Chemist	Melbourne Organics

General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insuffient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
RPD = Relative Percentage Difference
# = Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR:- No Limit; Result between 10 and 20 times LOR:- 0% - 50%; Result > 20 times LOR:- 0% - 20%.

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Client sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Recovery Limits (%)*
EA055: Moisture Content (QC Lot: 1814149)									
EM1105752-001	Anonymous	EA055-103: Moisture Content (dried @ 103°C)	----	1.0	%	7.2	7.3	1.6	No Limit
EM1105772-018	BH10_0.01-0.1	EA055-103: Moisture Content (dried @ 103°C)	----	1.0	%	6.4	4.9	27.2	No Limit
EA055: Moisture Content (QC Lot: 1814150)									
EM1105772-028	DUP 1	EA055-103: Moisture Content (dried @ 103°C)	----	1.0	%	12.5	13.3	5.7	0% - 50%
EM1105778-002	Anonymous	EA055-103: Moisture Content (dried @ 103°C)	----	1.0	%	8.0	9.0	12.1	No Limit
EG005T: Total Metals by ICP-AES (QC Lot: 1814050)									
EM1105751-051	Anonymous	EG005T: Beryllium	7440-41-7	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Barium	7440-39-3	10	mg/kg	80	50	50.9	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	19	20	6.6	0% - 50%
		EG005T: Cobalt	7440-48-4	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	4	3	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	22	21	0.0	No Limit
		EG005T: Manganese	7439-96-5	5	mg/kg	107	108	0.0	0% - 20%
		EG005T: Vanadium	7440-62-2	5	mg/kg	43	49	12.6	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	8	7	0.0	No Limit
EM1105772-027	STOCKPILE E	EG005T: Beryllium	7440-41-7	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Barium	7440-39-3	10	mg/kg	70	70	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	11	9	22.1	No Limit
		EG005T: Cobalt	7440-48-4	2	mg/kg	2	2	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	5	4	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	12	10	17.3	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	18	15	19.8	No Limit
		EG005T: Manganese	7439-96-5	5	mg/kg	185	194	4.5	0% - 20%
		EG005T: Vanadium	7440-62-2	5	mg/kg	30	24	19.3	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	45	42	5.4	No Limit
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 1814049)									
EM1105657-001	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EM1105772-027	STOCKPILE E	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP068A: Organochlorine Pesticides (OC) (QC Lot: 1813942)									
EM1105717-001	Anonymous	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit

Sub-Matrix: **SOIL**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EP068A: Organochlorine Pesticides (OC) (QC Lot: 1813942) - continued									
EM1105717-001	Anonymous	EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EM1105717-023	Anonymous	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.0	No Limit

Sub-Matrix: **SOIL**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EP068A: Organochlorine Pesticides (OC) (QC Lot: 1813942) - continued									
EM1105717-023	Anonymous	EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EP074A: Monocyclic Aromatic Hydrocarbons (QC Lot: 1813279)									
EM1105752-001	Anonymous	EP074: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP074: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074B: Oxygenated Compounds (QC Lot: 1813279)									
EM1105752-001	Anonymous	EP074: Vinyl Acetate	108-05-4	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 2-Butanone (MEK)	78-93-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	<5	0.0	No Limit
EP074C: Sulfonated Compounds (QC Lot: 1813279)									
EM1105752-001	Anonymous	EP074: Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074D: Fumigants (QC Lot: 1813279)									
EM1105752-001	Anonymous	EP074: 2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074E: Halogenated Aliphatic Compounds (QC Lot: 1813279)									
EM1105752-001	Anonymous	EP074: 1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Iodomethane	74-88-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EP074E: Halogenated Aliphatic Compounds (QC Lot: 1813279) - continued									
EM1105752-001	Anonymous	EP074: Trichloroethene	79-01-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dibromomethane	74-95-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Chloromethane	74-87-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Vinyl chloride	75-01-4	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Bromomethane	74-83-9	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Chloroethane	75-00-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Trichlorofluoromethane	75-69-4	5	mg/kg	<5	<5	0.0	No Limit
EP074F: Halogenated Aromatic Compounds (QC Lot: 1813279)									
EM1105752-001	Anonymous	EP074: Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromobenzene	108-86-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074G: Trihalomethanes (QC Lot: 1813279)									
EM1105752-001	Anonymous	EP074: Chloroform	67-66-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromoform	75-25-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 1814082)									
EM1105772-018	BH10_0.01-0.1	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 1814082) - continued									
EM1105772-018	BH10_0.01-0.1	EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b)fluoranthene	205-99-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075A: Phenolic Compounds (QC Lot: 1813944)									
EM1105717-001	Anonymous	EP075: Phenol	108-95-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2-Chlorophenol	95-57-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2-Methylphenol	95-48-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 3- & 4-Methylphenol	1319-77-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2-Nitrophenol	88-75-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2.4-Dimethylphenol	105-67-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2.4-Dichlorophenol	120-83-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2.6-Dichlorophenol	87-65-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4-Chloro-3-Methylphenol	59-50-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Pentachlorophenol	87-86-5	1	mg/kg	<1	<1	0.0	No Limit
EM1105717-023	Anonymous	EP075: Phenol	108-95-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2-Chlorophenol	95-57-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2-Methylphenol	95-48-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 3- & 4-Methylphenol	1319-77-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2-Nitrophenol	88-75-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2.4-Dimethylphenol	105-67-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2.4-Dichlorophenol	120-83-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2.6-Dichlorophenol	87-65-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4-Chloro-3-Methylphenol	59-50-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Pentachlorophenol	87-86-5	1	mg/kg	<1	<1	0.0	No Limit
EP075B: Polynuclear Aromatic Hydrocarbons (QC Lot: 1813944)									
EM1105717-001	Anonymous	EP075: Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2-Methylnaphthalene	91-57-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2-Chloronaphthalene	91-58-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EP075B: Polynuclear Aromatic Hydrocarbons (QC Lot: 1813944) - continued									
EM1105717-001	Anonymous	EP075: Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-2-Fluorenyl Acetamide	53-96-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 7.12-Dimethylbenz(a)anthracene	57-97-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 3-Methylcholanthrene	56-49-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Sum of PAHs	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Benzo(b) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	<1	<1	0.0	No Limit
EM1105717-023	Anonymous	EP075: Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2-Methylnaphthalene	91-57-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2-Chloronaphthalene	91-58-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-2-Fluorenyl Acetamide	53-96-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 7.12-Dimethylbenz(a)anthracene	57-97-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 3-Methylcholanthrene	56-49-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Sum of PAHs	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Benzo(b) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	<1	<1	0.0	No Limit
EP075C: Phthalate Esters (QC Lot: 1813944)									
EM1105717-001	Anonymous	EP075: Dimethyl phthalate	131-11-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EP075C: Phthalate Esters (QC Lot: 1813944) - continued									
EM1105717-001	Anonymous	EP075: Diethyl phthalate	84-66-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Di-n-butyl phthalate	84-74-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Butyl benzyl phthalate	85-68-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: bis(2-ethylhexyl) phthalate	117-81-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Di-n-octylphthalate	117-84-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EM1105717-023	Anonymous	EP075: Dimethyl phthalate	131-11-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Diethyl phthalate	84-66-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Di-n-butyl phthalate	84-74-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Butyl benzyl phthalate	85-68-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: bis(2-ethylhexyl) phthalate	117-81-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Di-n-octylphthalate	117-84-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075D: Nitrosamines (QC Lot: 1813944)									
EM1105717-001	Anonymous	EP075: N-Nitrosomethylethylamine	10595-95-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-Nitrosodiethylamine	55-18-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-Nitrosopyrrolidine	930-55-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-Nitrosomorpholine	59-89-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-Nitrosodi-n-propylamine	621-64-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-Nitrosopiperidine	100-75-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-Nitrosodibutylamine	924-16-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Methapyrilene	91-80-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EM1105717-023	Anonymous	EP075: N-Nitrosomethylethylamine	10595-95-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-Nitrosodiethylamine	55-18-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-Nitrosopyrrolidine	930-55-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-Nitrosomorpholine	59-89-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-Nitrosodi-n-propylamine	621-64-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-Nitrosopiperidine	100-75-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-Nitrosodibutylamine	924-16-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Methapyrilene	91-80-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075E: Nitroaromatics and Ketones (QC Lot: 1813944)									
EM1105717-001	Anonymous	EP075: 2-Picoline	109-06-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Acetophenone	98-86-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Nitrobenzene	98-95-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Isophorone	78-59-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2.6-Dinitrotoluene	606-20-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2.4-Dinitrotoluene	121-14-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EP075E: Nitroaromatics and Ketones (QC Lot: 1813944) - continued									
EM1105717-001	Anonymous	EP075: 1-Naphthylamine	134-32-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4-Nitroquinoline-N-oxide	56-57-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 5-Nitro-o-toluidine	99-55-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 1.3.5-Trinitrobenzene	99-35-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Phenacetin	62-44-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4-Aminobiphenyl	92-67-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Pentachloronitrobenzene	82-68-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Pronamide	23950-58-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Dimethylaminoazobenzene	60-11-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Chlorobenzilate	510-15-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Azobenzene	103-33-3	1	mg/kg	<1	<1	0.0	No Limit
EM1105717-023	Anonymous	EP075: 2-Picoline	109-06-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Acetophenone	98-86-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Nitrobenzene	98-95-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Isophorone	78-59-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2.6-Dinitrotoluene	606-20-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2.4-Dinitrotoluene	121-14-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 1-Naphthylamine	134-32-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4-Nitroquinoline-N-oxide	56-57-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 5-Nitro-o-toluidine	99-55-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 1.3.5-Trinitrobenzene	99-35-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Phenacetin	62-44-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4-Aminobiphenyl	92-67-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Pentachloronitrobenzene	82-68-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Pronamide	23950-58-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Dimethylaminoazobenzene	60-11-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Chlorobenzilate	510-15-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Azobenzene	103-33-3	1	mg/kg	<1	<1	0.0	No Limit
EP075F: Haloethers (QC Lot: 1813944)									
EM1105717-001	Anonymous	EP075: Bis(2-chloroethyl) ether	111-44-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Bis(2-chloroethoxy) methane	111-91-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4-Chlorophenyl phenyl ether	7005-72-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4-Bromophenyl phenyl ether	101-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EM1105717-023	Anonymous	EP075: Bis(2-chloroethyl) ether	111-44-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Bis(2-chloroethoxy) methane	111-91-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4-Chlorophenyl phenyl ether	7005-72-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4-Bromophenyl phenyl ether	101-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075G: Chlorinated Hydrocarbons (QC Lot: 1813944)									
EM1105717-001	Anonymous	EP075: 1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EP075G: Chlorinated Hydrocarbons (QC Lot: 1813944) - continued									
EM1105717-001	Anonymous	EP075: 1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Hexachloroethane	67-72-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Hexachloropropylene	1888-71-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Hexachlorocyclopentadiene	77-47-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Pentachlorobenzene	608-93-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Hexachlorobenzene (HCB)	118-74-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EM1105717-023	Anonymous	EP075: 1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Hexachloroethane	67-72-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Hexachloropropylene	1888-71-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Hexachlorocyclopentadiene	77-47-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Pentachlorobenzene	608-93-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Hexachlorobenzene (HCB)	118-74-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075H: Anilines and Benzidines (QC Lot: 1813944)									
EM1105717-001	Anonymous	EP075: Aniline	62-53-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4-Chloroaniline	106-47-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2-Nitroaniline	88-74-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 3-Nitroaniline	99-09-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Dibenzofuran	132-64-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4-Nitroaniline	100-01-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Carbazole	86-74-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 3.3`-Dichlorobenzidine	91-94-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EM1105717-023	Anonymous	EP075: Aniline	62-53-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4-Chloroaniline	106-47-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2-Nitroaniline	88-74-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 3-Nitroaniline	99-09-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Dibenzofuran	132-64-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4-Nitroaniline	100-01-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Carbazole	86-74-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 3.3`-Dichlorobenzidine	91-94-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075I: Organochlorine Pesticides (QC Lot: 1813944)									
EM1105717-001	Anonymous	EP075: alpha-BHC	319-84-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: beta-BHC	319-85-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EP075I: Organochlorine Pesticides (QC Lot: 1813944) - continued									
EM1105717-001	Anonymous	EP075: gamma-BHC	58-89-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: delta-BHC	319-86-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Heptachlor	76-44-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Aldrin	309-00-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Heptachlor epoxide	1024-57-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: alpha-Endosulfan	959-98-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4.4`-DDE	72-55-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Dieldrin	60-57-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Endrin	72-20-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: beta-Endosulfan	33213-65-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4.4`-DDD	72-54-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Endosulfan sulfate	1031-07-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4.4`-DDT	50-29-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EM1105717-023	Anonymous	EP075: alpha-BHC	319-84-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: beta-BHC	319-85-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: gamma-BHC	58-89-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: delta-BHC	319-86-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Heptachlor	76-44-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Aldrin	309-00-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Heptachlor epoxide	1024-57-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: alpha-Endosulfan	959-98-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4.4`-DDE	72-55-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Dieldrin	60-57-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Endrin	72-20-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: beta-Endosulfan	33213-65-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4.4`-DDD	72-54-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Endosulfan sulfate	1031-07-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4.4`-DDT	50-29-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075J: Organophosphorus Pesticides (QC Lot: 1813944)									
EM1105717-001	Anonymous	EP075: Dichlorvos	62-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Dimethoate	60-51-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Diazinon	333-41-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Chlorpyrifos-methyl	5598-13-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Malathion	121-75-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Fenthion	55-38-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Chlorpyrifos	2921-88-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Pirimphos-ethyl	23505-41-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Chlorfenvinphos	470-90-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Prothiofos	34643-46-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
				Laboratory Duplicate (DUP) Report					
EP075J: Organophosphorus Pesticides (QC Lot: 1813944) - continued									
EM1105717-001	Anonymous	EP075: Ethion	563-12-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EM1105717-023	Anonymous	EP075: Dichlorvos	62-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Dimethoate	60-51-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Diazinon	333-41-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Chlorpyrifos-methyl	5598-13-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Malathion	121-75-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Fenthion	55-38-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Chlorpyrifos	2921-88-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Pirimphos-ethyl	23505-41-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Chlorfenvinphos	470-90-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Prothiofos	34643-46-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Ethion	563-12-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 1813278)									
EM1105752-001	Anonymous	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EM1105786-015	Anonymous	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 1814081)									
EM1105772-006	BH04_0.0-0.1	EP071: C15 - C28 Fraction	----	100	mg/kg	140	200	29.8	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	200	100	65.8	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
		EP071: C10 - C36 Fraction (sum)	----	50	mg/kg	340	300	12.5	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2010 Draft (QC Lot: 1813278)									
EM1105752-001	Anonymous	EP080: C6 - C10 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EM1105786-015	Anonymous	EP080: C6 - C10 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2010 Draft (QC Lot: 1814081)									
EM1105772-006	BH04_0.0-0.1	EP071: >C16 - C34 Fraction	----	100	mg/kg	260	280	5.1	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	230	<100	80.0	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	50	0.0	No Limit
		EP071: >C10 - C40 Fraction (sum)	----	50	mg/kg	490	330	39.0	No Limit
EP080: BTEXN (QC Lot: 1813278)									
EM1105752-001	Anonymous	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EM1105786-015	Anonymous	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Client sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Recovery Limits (%)*
EP080: BTEXN (QC Lot: 1813278) - continued									
EM1105786-015	Anonymous	EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit

Method Blank (MB) and Laboratory Control Spike (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: **SOIL**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Recovery Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EG005T: Total Metals by ICP-AES (QCLot: 1814050)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	13.6 mg/kg	84.9	74	132
EG005T: Barium	7440-39-3	10	mg/kg	<10	139 mg/kg	113	72	126
EG005T: Beryllium	7440-41-7	1	mg/kg	<1	6.2 mg/kg	100	70	119
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	2.8 mg/kg	95.3	71	123
EG005T: Chromium	7440-47-3	2	mg/kg	<2	60.9 mg/kg	94.9	73	125
EG005T: Cobalt	7440-48-4	2	mg/kg	<2	25.4 mg/kg	86.6	70	124
EG005T: Copper	7440-50-8	5	mg/kg	<5	55.1 mg/kg	113	74	124
EG005T: Lead	7439-92-1	5	mg/kg	<5	54.9 mg/kg	85.4	74	126
EG005T: Manganese	7439-96-5	5	mg/kg	<5	137 mg/kg	97.7	72	126
EG005T: Nickel	7440-02-0	2	mg/kg	<2	55.1 mg/kg	92.2	74	128
EG005T: Vanadium	7440-62-2	5	mg/kg	<5	34.9 mg/kg	100	75	129
EG005T: Zinc	7440-66-6	5	mg/kg	<5	105 mg/kg	79.5	74	124
EG035T: Total Recoverable Mercury by FIMS (QCLot: 1814049)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	1.47 mg/kg	93.2	64	116
EP068A: Organochlorine Pesticides (OC) (QCLot: 1813942)								
EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	0.5 mg/kg	76.8	52	136
EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	0.5 mg/kg	76.7	50	130
EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	0.5 mg/kg	82.0	50	142
EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	0.5 mg/kg	78.4	54	136
EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	86.0	51	138
EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	0.5 mg/kg	80.6	51	137
EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	0.5 mg/kg	79.7	52	134
EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	0.5 mg/kg	84.5	54	136
EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	0.5 mg/kg	84.0	53	135
EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	0.5 mg/kg	96.8	53	133
EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	0.5 mg/kg	83.0	52	136
EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	0.5 mg/kg	79.6	49	141
EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	0.5 mg/kg	83.6	53	135
EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	0.5 mg/kg	89.1	45	143
EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	0.5 mg/kg	91.8	54	138
EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	0.5 mg/kg	80.8	52	136
EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	0.5 mg/kg	84.9	49	133
EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	0.5 mg/kg	83.0	49	143
EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	0.5 mg/kg	87.7	40	150

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Recovery Limits (%): Low	Recovery Limits (%): High
EP068A: Organochlorine Pesticides (OC) (QCLot: 1813942) - continued								
EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	0.5 mg/kg	81.4	51	141
EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	0.5 mg/kg	85.9	38	152
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 1813279)								
EP074: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	96.2	75	121
EP074: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	93.7	76	124
EP074: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	92.1	74	120
EP074: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	2 mg/kg	97.6	75	125
EP074: Styrene	100-42-5	0.5	mg/kg	<0.5	1 mg/kg	90.0	64	120
EP074: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	97.5	77	123
EP074: Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	1 mg/kg	94.0	74	120
EP074: n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	1 mg/kg	96.0	65	117
EP074: 1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	1 mg/kg	94.2	65	117
EP074: sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	1 mg/kg	98.8	67	117
EP074: 1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	1 mg/kg	96.4	66	118
EP074: tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	1 mg/kg	97.6	68	116
EP074: p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	1 mg/kg	98.1	64	118
EP074: n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	1 mg/kg	95.1	59	117
EP074B: Oxygenated Compounds (QCLot: 1813279)								
EP074: Vinyl Acetate	108-05-4	5	mg/kg	<5	10 mg/kg	84.6	40	138
EP074: 2-Butanone (MEK)	78-93-3	5	mg/kg	<5	10 mg/kg	86.1	61	143
EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	10 mg/kg	89.3	63	137
EP074: 2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	10 mg/kg	76.2	63	133
EP074C: Sulfonated Compounds (QCLot: 1813279)								
EP074: Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	1 mg/kg	86.4	57	121
EP074D: Fumigants (QCLot: 1813279)								
EP074: 2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	1 mg/kg	87.5	51	135
EP074: 1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	1 mg/kg	92.1	73	121
EP074: cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	1 mg/kg	74.5	59	109
EP074: trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	1 mg/kg	75.6	52	110
EP074E: Halogenated Aliphatic Compounds (QCLot: 1813279)								
EP074: Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	10 mg/kg	85.8	34	140
EP074: Chloromethane	74-87-3	5	mg/kg	<5	10 mg/kg	100	52	142
EP074: Vinyl chloride	75-01-4	5	mg/kg	<5	10 mg/kg	93.5	47	141
EP074: Bromomethane	74-83-9	5	mg/kg	<5	10 mg/kg	76.3	39	127
EP074: Chloroethane	75-00-3	5	mg/kg	<5	10 mg/kg	105	43	143
EP074: Trichlorofluoromethane	75-69-4	5	mg/kg	<5	10 mg/kg	97.5	61	131
EP074: 1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	1 mg/kg	95.7	62	122

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%) LCS	Recovery Limits (%) Low	Recovery Limits (%) High
EP074E: Halogenated Aliphatic Compounds (QCLot: 1813279) - continued								
EP074: Iodomethane	74-88-4	0.5	mg/kg	<0.5	1 mg/kg	65.4	47	119
EP074: trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	1 mg/kg	98.4	69	119
EP074: 1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	1 mg/kg	96.1	70	120
EP074: cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	1 mg/kg	97.7	72	120
EP074: 1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	1 mg/kg	85.9	64	112
EP074: 1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	1 mg/kg	93.5	71	117
EP074: Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	1 mg/kg	78.0	51	107
EP074: 1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	1 mg/kg	96.9	70	126
EP074: Trichloroethene	79-01-6	0.5	mg/kg	<0.5	1 mg/kg	99.9	71	121
EP074: Dibromomethane	74-95-3	0.5	mg/kg	<0.5	1 mg/kg	88.3	70	122
EP074: 1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	1 mg/kg	95.0	73	125
EP074: 1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	1 mg/kg	95.3	75	125
EP074: Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	1 mg/kg	102	71	121
EP074: 1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	1 mg/kg	74.2	54	106
EP074: trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	1 mg/kg	70.0	46	114
EP074: cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	1 mg/kg	52.8	21.8	122
EP074: 1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	1 mg/kg	87.1	71	131
EP074: 1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	1 mg/kg	96.7	70	134
EP074: Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	1 mg/kg	55.8	40	94
EP074: 1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	1 mg/kg	66.6	41	113
EP074F: Halogenated Aromatic Compounds (QCLot: 1813279)								
EP074: Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	1 mg/kg	95.5	78	120
EP074: Bromobenzene	108-86-1	0.5	mg/kg	<0.5	1 mg/kg	97.5	68	116
EP074: 2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	1 mg/kg	93.6	67	117
EP074: 4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	1 mg/kg	90.9	67	115
EP074: 1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	1 mg/kg	90.4	60	120
EP074G: Trihalomethanes (QCLot: 1813279)								
EP074: Chloroform	67-66-3	0.5	mg/kg	<0.5	1 mg/kg	94.8	71	121
EP074: Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	1 mg/kg	76.9	60	108
EP074: Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	1 mg/kg	66.1	48	104
EP074: Bromoform	75-25-2	0.5	mg/kg	<0.5	1 mg/kg	72.9	40	100
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 1814082)								
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	10 mg/kg	101	64	126
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	10 mg/kg	101	63	127
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	10 mg/kg	102	65	125
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	10 mg/kg	100	66	126
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	10 mg/kg	98.7	64	124
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	10 mg/kg	101	66	126
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	10 mg/kg	98.5	66	124

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%) LCS	Recovery Limits (%) Low	Recovery Limits (%) High
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 1814082) - continued								
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	10 mg/kg	97.6	66	124
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	10 mg/kg	97.7	62	124
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	10 mg/kg	99.1	64	126
EP075(SIM): Benzo(b)fluoranthene	205-99-2	0.5	mg/kg	<0.5	10 mg/kg	89.5	58	126
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	10 mg/kg	107	65	127
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	10 mg/kg	99.1	61	125
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	10 mg/kg	97.8	58	126
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	10 mg/kg	97.5	58	126
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	10 mg/kg	97.5	57	125
EP075A: Phenolic Compounds (QCLot: 1813944)								
EP075: Phenol	108-95-2	0.5	mg/kg	<0.5	2.5 mg/kg	120	38	138
EP075: 2-Chlorophenol	95-57-8	0.5	mg/kg	<0.5	2.5 mg/kg	112	39	129
EP075: 2-Methylphenol	95-48-7	0.5	mg/kg	<0.5	2.5 mg/kg	109	33	132
EP075: 3- & 4-Methylphenol	1319-77-3	0.5	mg/kg	<0.5	2.5 mg/kg	114	35	131
EP075: 2-Nitrophenol	88-75-5	0.5	mg/kg	<0.5	2.5 mg/kg	116	31	131
EP075: 2.4-Dimethylphenol	105-67-9	0.5	mg/kg	<0.5	2.5 mg/kg	71.6	10	135
EP075: 2.4-Dichlorophenol	120-83-2	0.5	mg/kg	<0.5	2.5 mg/kg	110	35	133
EP075: 2.6-Dichlorophenol	87-65-0	0.5	mg/kg	<0.5	2.5 mg/kg	111	36	132
EP075: 4-Chloro-3-Methylphenol	59-50-7	0.5	mg/kg	<0.5	2.5 mg/kg	117	39	143
EP075: 2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg	<0.5	2.5 mg/kg	122	34	138
EP075: 2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg	<0.5	2.5 mg/kg	122	30.2	142
EP075: Pentachlorophenol	87-86-5	1.0	mg/kg	<1	2.5 mg/kg	122	14	136
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 1813944)								
EP075: Naphthalene	91-20-3	0.5	mg/kg	<0.5	2.5 mg/kg	108	39	128
EP075: 2-Methylnaphthalene	91-57-6	0.5	mg/kg	<0.5	2.5 mg/kg	108	40	136
EP075: 2-Chloronaphthalene	91-58-7	0.5	mg/kg	<0.5	2.5 mg/kg	108	29.5	137
EP075: Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	2.5 mg/kg	108	38	138
EP075: Acenaphthene	83-32-9	0.5	mg/kg	<0.5	2.5 mg/kg	107	45	133
EP075: Fluorene	86-73-7	0.5	mg/kg	<0.5	2.5 mg/kg	113	47	137
EP075: Phenanthrene	85-01-8	0.5	mg/kg	<0.5	2.5 mg/kg	108	45	133
EP075: Anthracene	120-12-7	0.5	mg/kg	<0.5	2.5 mg/kg	108	44	130
EP075: Fluoranthene	206-44-0	0.5	mg/kg	<0.5	2.5 mg/kg	114	46	138
EP075: Pyrene	129-00-0	0.5	mg/kg	<0.5	2.5 mg/kg	114	43	145
EP075: N-2-Fluorenyl Acetamide	53-96-3	0.5	mg/kg	<0.5	2.5 mg/kg	131	43	143
EP075: Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	2.5 mg/kg	116	43	139
EP075: Chrysene	218-01-9	0.5	mg/kg	<0.5	2.5 mg/kg	121	42	140
EP075: Benzo(b) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	<1	5 mg/kg	115	43	139
EP075: 7.12-Dimethylbenz(a)anthracene	57-97-6	0.5	mg/kg	<0.5	2.5 mg/kg	123	40	154

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Recovery Limits (%): Low	Recovery Limits (%): High
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 1813944) - continued								
EP075: Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	2.5 mg/kg	120	38	138
EP075: 3-Methylcholanthrene	56-49-5	0.5	mg/kg	<0.5	2.5 mg/kg	125	46	162
EP075: Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	2.5 mg/kg	142	49	159
EP075: Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	2.5 mg/kg	140	49	157
EP075: Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	2.5 mg/kg	150	48	158
EP075: Sum of PAHs	----	0.5	mg/kg	<0.5	----	----	----	----
EP075C: Phthalate Esters (QCLot: 1813944)								
EP075: Dimethyl phthalate	131-11-3	0.5	mg/kg	<0.5	2.5 mg/kg	111	40	142
EP075: Diethyl phthalate	84-66-2	0.5	mg/kg	<0.5	2.5 mg/kg	115	48	140
EP075: Di-n-butyl phthalate	84-74-2	0.5	mg/kg	<0.5	2.5 mg/kg	125	38	169
EP075: Butyl benzyl phthalate	85-68-7	0.5	mg/kg	<0.5	2.5 mg/kg	122	42	140
EP075: bis(2-ethylhexyl) phthalate	117-81-7	0.5	mg/kg	<0.5	2.5 mg/kg	120	47	155
EP075: Di-n-octylphthalate	117-84-0	0.5	mg/kg	<0.5	2.5 mg/kg	112	47	137
EP075D: Nitrosamines (QCLot: 1813944)								
EP075: N-Nitrosomethylethylamine	10595-95-6	0.5	mg/kg	<0.5	2.5 mg/kg	85.0	16.2	136
EP075: N-Nitrosodiethylamine	55-18-5	0.5	mg/kg	<0.5	2.5 mg/kg	105	33	132
EP075: N-Nitrosopyrrolidine	930-55-2	0.5	mg/kg	<0.5	2.5 mg/kg	109	27.7	130
EP075: N-Nitrosomorpholine	59-89-2	0.5	mg/kg	<0.5	2.5 mg/kg	112	33	131
EP075: N-Nitrosodi-n-propylamine	621-64-7	0.5	mg/kg	<0.5	2.5 mg/kg	107	36	127
EP075: N-Nitrosopiperidine	100-75-4	0.5	mg/kg	<0.5	2.5 mg/kg	96.2	35	128
EP075: N-Nitrosodibutylamine	924-16-3	0.5	mg/kg	<0.5	2.5 mg/kg	96.0	37	139
EP075: N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	0.5	mg/kg	<0.5	2.5 mg/kg	110	42	134
EP075: Methapyrilene	91-80-5	0.5	mg/kg	<0.5	2.5 mg/kg	55.1	24.4	143
EP075E: Nitroaromatics and Ketones (QCLot: 1813944)								
EP075: 2-Picoline	109-06-8	0.5	mg/kg	<0.5	2.5 mg/kg	65.6	10	138
EP075: Acetophenone	98-86-2	0.5	mg/kg	<0.5	2.5 mg/kg	104	35	128
EP075: Nitrobenzene	98-95-3	0.5	mg/kg	<0.5	2.5 mg/kg	106	36	127
EP075: Isophorone	78-59-1	0.5	mg/kg	<0.5	2.5 mg/kg	102	40	136
EP075: 2.6-Dinitrotoluene	606-20-2	0.5	mg/kg	<0.5	2.5 mg/kg	119	42	140
EP075: 2.4-Dinitrotoluene	121-14-2	0.5	mg/kg	<0.5	2.5 mg/kg	129	46	140
EP075: 1-Naphthylamine	134-32-7	0.5	mg/kg	<0.5	2.5 mg/kg	25.7	10	84
EP075: 4-Nitroquinoline-N-oxide	56-57-5	0.5	mg/kg	<0.5	2.5 mg/kg	62.1	17.7	153
EP075: 5-Nitro-o-toluidine	99-55-8	0.5	mg/kg	<0.5	2.5 mg/kg	95.1	37	125
EP075: Azobenzene	103-33-3	1	mg/kg	<1	2.5 mg/kg	111	46	140
EP075: 1.3.5-Trinitrobenzene	99-35-4	0.5	mg/kg	<0.5	2.5 mg/kg	146	12.6	151
EP075: Phenacetin	62-44-2	0.5	mg/kg	<0.5	2.5 mg/kg	123	48	142
EP075: 4-Aminobiphenyl	92-67-1	0.5	mg/kg	<0.5	2.5 mg/kg	35.8	10	97
EP075: Pentachloronitrobenzene	82-68-8	0.5	mg/kg	<0.5	2.5 mg/kg	136	47	139

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%) LCS	Recovery Limits (%) Low	Recovery Limits (%) High
EP075E: Nitroaromatics and Ketones (QCLot: 1813944) - continued								
EP075: Pronamide	23950-58-5	0.5	mg/kg	<0.5	2.5 mg/kg	114	45	133
EP075: Dimethylaminoazobenzene	60-11-7	0.5	mg/kg	<0.5	2.5 mg/kg	108	42	136
EP075: Chlorobenzilate	510-15-6	0.5	mg/kg	<0.5	2.5 mg/kg	123	41	141
EP075F: Haloethers (QCLot: 1813944)								
EP075: Bis(2-chloroethyl) ether	111-44-4	0.5	mg/kg	<0.5	2.5 mg/kg	101	36	146
EP075: Bis(2-chloroethoxy) methane	111-91-1	0.5	mg/kg	<0.5	2.5 mg/kg	99.0	40	136
EP075: 4-Chlorophenyl phenyl ether	7005-72-3	0.5	mg/kg	<0.5	2.5 mg/kg	112	46	136
EP075: 4-Bromophenyl phenyl ether	101-55-3	0.5	mg/kg	<0.5	2.5 mg/kg	118	44	140
EP075G: Chlorinated Hydrocarbons (QCLot: 1813944)								
EP075: 1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	2.5 mg/kg	103	35	122
EP075: 1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	2.5 mg/kg	104	36	125
EP075: 1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	2.5 mg/kg	103	37	123
EP075: Hexachloroethane	67-72-1	0.5	mg/kg	<0.5	2.5 mg/kg	107	33	123
EP075: 1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	2.5 mg/kg	99.6	36	132
EP075: Hexachloropropylene	1888-71-7	0.5	mg/kg	<0.5	2.5 mg/kg	# 144	26.6	137
EP075: Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	2.5 mg/kg	110	40	130
EP075: Hexachlorocyclopentadiene	77-47-4	0.5	mg/kg	<0.5	2.5 mg/kg	68.1	17.3	141
EP075: Pentachlorobenzene	608-93-5	0.5	mg/kg	<0.5	2.5 mg/kg	113	46	136
EP075: Hexachlorobenzene (HCB)	118-74-1	0.5	mg/kg	<0.5	5 mg/kg	124	40	142
EP075H: Anilines and Benzidines (QCLot: 1813944)								
EP075: Aniline	62-53-3	0.5	mg/kg	<0.5	2.5 mg/kg	62.5	10	114
EP075: 4-Chloroaniline	106-47-8	0.5	mg/kg	<0.5	2.5 mg/kg	58.1	10	103
EP075: 2-Nitroaniline	88-74-4	0.5	mg/kg	<0.5	2.5 mg/kg	112	40	142
EP075: 3-Nitroaniline	99-09-2	0.5	mg/kg	<0.5	2.5 mg/kg	81.8	23.3	125
EP075: Dibenzofuran	132-64-9	0.5	mg/kg	<0.5	2.5 mg/kg	109	46	134
EP075: 4-Nitroaniline	100-01-6	0.5	mg/kg	<0.5	2.5 mg/kg	105	38	132
EP075: Carbazole	86-74-8	0.5	mg/kg	<0.5	2.5 mg/kg	108	44	134
EP075: 3.3`-Dichlorobenzidine	91-94-1	0.5	mg/kg	<0.5	2.5 mg/kg	65.6	10	124
EP075I: Organochlorine Pesticides (QCLot: 1813944)								
EP075: alpha-BHC	319-84-6	0.5	mg/kg	<0.5	2.5 mg/kg	114	50	134
EP075: beta-BHC	319-85-7	0.5	mg/kg	<0.5	2.5 mg/kg	# 144	47	135
EP075: gamma-BHC	58-89-9	0.5	mg/kg	<0.5	2.5 mg/kg	116	50	137
EP075: delta-BHC	319-86-8	0.5	mg/kg	<0.5	2.5 mg/kg	115	48	136
EP075: Heptachlor	76-44-8	0.5	mg/kg	<0.5	2.5 mg/kg	120	40	138
EP075: Aldrin	309-00-2	0.5	mg/kg	<0.5	2.5 mg/kg	120	44	140
EP075: Heptachlor epoxide	1024-57-3	0.5	mg/kg	<0.5	2.5 mg/kg	119	45	139
EP075: alpha-Endosulfan	959-98-8	0.5	mg/kg	<0.5	2.5 mg/kg	115	46	142
EP075: 4.4`-DDE	72-55-9	0.5	mg/kg	<0.5	----	----	----	----

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%) LCS	Recovery Limits (%) Low	Recovery Limits (%) High
EP075I: Organochlorine Pesticides (QCLot: 1813944) - continued								
EP075: Dieldrin	60-57-1	0.5	mg/kg	<0.5	2.5 mg/kg	119	47	139
EP075: Endrin	72-20-8	0.5	mg/kg	<0.5	2.5 mg/kg	# 142	42	142
EP075: beta-Endosulfan	33213-65-9	0.5	mg/kg	<0.5	2.5 mg/kg	112	47	141
EP075: 4.4`-DDD	72-54-8	0.5	mg/kg	<0.5	2.5 mg/kg	107	42	146
EP075: Endosulfan sulfate	1031-07-8	0.5	mg/kg	<0.5	2.5 mg/kg	118	41	141
EP075: 4.4`-DDT	50-29-3	0.5	mg/kg	<0.5	2.5 mg/kg	115	19.6	148
EP075J: Organophosphorus Pesticides (QCLot: 1813944)								
EP075: Dichlorvos	62-73-7	0.5	mg/kg	<0.5	2.5 mg/kg	107	21.9	131
EP075: Dimethoate	60-51-5	0.5	mg/kg	<0.5	2.5 mg/kg	131	38	142
EP075: Diazinon	333-41-5	0.5	mg/kg	<0.5	2.5 mg/kg	122	36	133
EP075: Chlorpyrifos-methyl	5598-13-0	0.5	mg/kg	<0.5	2.5 mg/kg	123	35	143
EP075: Malathion	121-75-5	0.5	mg/kg	<0.5	2.5 mg/kg	119	35	143
EP075: Fenthion	55-38-9	0.5	mg/kg	<0.5	2.5 mg/kg	121	25.1	135
EP075: Chlorpyrifos	2921-88-2	0.5	mg/kg	<0.5	2.5 mg/kg	114	36	132
EP075: Pirimphos-ethyl	23505-41-1	0.5	mg/kg	<0.5	2.5 mg/kg	125	36	135
EP075: Chlorfenvinphos	470-90-6	0.5	mg/kg	<0.5	2.5 mg/kg	127	35	138
EP075: Prothiofos	34643-46-4	0.5	mg/kg	<0.5	2.5 mg/kg	117	37	135
EP075: Ethion	563-12-2	0.5	mg/kg	<0.5	2.5 mg/kg	128	38	137
EP080/071: Total Petroleum Hydrocarbons (QCLot: 1813278)								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	32 mg/kg	99.2	70	133
EP080/071: Total Petroleum Hydrocarbons (QCLot: 1814081)								
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	636 mg/kg	80.2	54	123
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	1550 mg/kg	98.8	74	134
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	356 mg/kg	84.8	63	143
EP071: C10 - C36 Fraction (sum)	----	50	mg/kg	<50	----	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2010 Draft (QCLot: 1813278)								
EP080: C6 - C10 Fraction	----	10	mg/kg	<10	37 mg/kg	100	70	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2010 Draft (QCLot: 1814081)								
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	894 mg/kg	101	54	123
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	1734 mg/kg	95.0	74	134
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	106 mg/kg	94.3	63	143
EP071: >C10 - C40 Fraction (sum)	----	100	mg/kg	<100	----	----	----	----
EP080: BTEXN (QCLot: 1813278)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	2 mg/kg	91.9	72	126
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	2 mg/kg	92.5	73	129
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	2 mg/kg	93.3	72	126
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	4 mg/kg	97.2	70	138

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Recovery Limits (%)	
				Result	Concentration	LCS	Low	High
EP080: BTEXN (QCLot: 1813278) - continued								
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	2 mg/kg	94.5	73	131
EP080: Naphthalene	91-20-3	1	mg/kg	<1	0.5 mg/kg	89.5	70	130

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	Spike Recovery (%)	Recovery Limits (%)	
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EG005T: Total Metals by ICP-AES (QCLot: 1814050)							
EM1105772-015	BH08_0.3-0.4	EG005T: Arsenic	7440-38-2	50 mg/kg	74.1	70	130
		EG005T: Barium	7440-39-3	50 mg/kg	113	70	130
		EG005T: Beryllium	7440-41-7	50 mg/kg	95.8	70	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	78.9	70	130
		EG005T: Chromium	7440-47-3	50 mg/kg	83.2	70	130
		EG005T: Copper	7440-50-8	50 mg/kg	98.5	70	130
		EG005T: Lead	7439-92-1	50 mg/kg	73.7	70	130
		EG005T: Manganese	7439-96-5	50 mg/kg	70.1	70	130
		EG005T: Nickel	7440-02-0	50 mg/kg	79.1	70	130
		EG005T: Vanadium	7440-62-2	50 mg/kg	87.1	70	130
		EG005T: Zinc	7440-66-6	50 mg/kg	70.6	70	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 1814049)							
EM1105772-015	BH08_0.3-0.4	EG035T: Mercury	7439-97-6	5.0 mg/kg	83.2	56	122
EP068A: Organochlorine Pesticides (OC) (QCLot: 1813942)							
EM1105713-001	Anonymous	EP068: gamma-BHC	58-89-9	0.5 mg/kg	88.4	30	132
		EP068: Heptachlor	76-44-8	0.5 mg/kg	73.0	22.2	132
		EP068: Aldrin	309-00-2	0.5 mg/kg	68.0	25	133
		EP068: Dieldrin	60-57-1	0.5 mg/kg	76.9	36	138
		EP068: Endrin	72-20-8	0.5 mg/kg	76.1	32	142
		EP068: 4.4`-DDT	50-29-3	0.5 mg/kg	45.5	12.2	140
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 1813279)							
EM1105752-004	Anonymous	EP074: Benzene	71-43-2	2 mg/kg	95.3	64	126
		EP074: Toluene	108-88-3	2 mg/kg	93.3	65	131
EP074E: Halogenated Aliphatic Compounds (QCLot: 1813279)							
EM1105752-004	Anonymous	EP074: 1.1-Dichloroethene	75-35-4	2 mg/kg	83.6	50	124
		EP074: Trichloroethene	79-01-6	2 mg/kg	84.9	60	122
EP074F: Halogenated Aromatic Compounds (QCLot: 1813279)							
EM1105752-004	Anonymous	EP074: Chlorobenzene	108-90-7	2 mg/kg	98.8	69	129
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 1814082)							
EM1105772-019	BH11_0.01-0.1	EP075(SIM): Acenaphthene	83-32-9	10 mg/kg	86.3	68	122
		EP075(SIM): Pyrene	129-00-0	10 mg/kg	84.7	65	125
EP075A: Phenolic Compounds (QCLot: 1813944)							
EM1105717-005	Anonymous	EP075: Phenol	108-95-2	5 mg/kg	40.7	23.7	120
		EP075: 2-Chlorophenol	95-57-8	5 mg/kg	37.1	31.1	121

Sub-Matrix: **SOIL**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	Spike Recovery (%): MS	Recovery Limits (%): Low	Recovery Limits (%): High
EP075A: Phenolic Compounds (QCLot: 1813944) - continued							
EM1105717-005	Anonymous	EP075: 2-Nitrophenol	88-75-5	5 mg/kg	35.5	16.4	116
		EP075: 4-Chloro-3-Methylphenol	59-50-7	5 mg/kg	46.3	22.3	136
		EP075: Pentachlorophenol	87-86-5	5 mg/kg	56.2	17.6	142
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 1813944)							
EM1105717-005	Anonymous	EP075: Acenaphthene	83-32-9	5 mg/kg	44.0	25.4	133
		EP075: Pyrene	129-00-0	5 mg/kg	56.8	14.6	141
EP075D: Nitrosamines (QCLot: 1813944)							
EM1105717-005	Anonymous	EP075: N-Nitrosodi-n-propylamine	621-64-7	5 mg/kg	38.7	17.8	124
EP075E: Nitroaromatics and Ketones (QCLot: 1813944)							
EM1105717-005	Anonymous	EP075: 2.4-Dinitrotoluene	121-14-2	5 mg/kg	48.9	28.3	126
EP075G: Chlorinated Hydrocarbons (QCLot: 1813944)							
EM1105717-005	Anonymous	EP075: 1.4-Dichlorobenzene	106-46-7	5 mg/kg	34.8	23	119
		EP075: 1.2.4-Trichlorobenzene	120-82-1	5 mg/kg	32.2	12.9	139
EP080/071: Total Petroleum Hydrocarbons (QCLot: 1813278)							
EM1105752-004	Anonymous	EP080: C6 - C9 Fraction	----	28 mg/kg	87.7	49	127
EP080/071: Total Petroleum Hydrocarbons (QCLot: 1814081)							
EM1105772-008	BH05_1.2-1.3	EP071: C10 - C14 Fraction	----	636 mg/kg	94.1	54	123
		EP071: C15 - C28 Fraction	----	1550 mg/kg	101	74	134
		EP071: C29 - C36 Fraction	----	356 mg/kg	96.6	63	143
EP080/071: Total Recoverable Hydrocarbons - NEPM 2010 Draft (QCLot: 1813278)							
EM1105752-004	Anonymous	EP080: C6 - C10 Fraction	----	33 mg/kg	90.0	70	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2010 Draft (QCLot: 1814081)							
EM1105772-008	BH05_1.2-1.3	EP071: >C10 - C16 Fraction	----	894 mg/kg	110	54	123
		EP071: >C16 - C34 Fraction	----	1723 mg/kg	98.1	74	134
		EP071: >C34 - C40 Fraction	----	106 mg/kg	65.6	63	143
EP080: BTEXN (QCLot: 1813278)							
EM1105752-004	Anonymous	EP080: Benzene	71-43-2	2 mg/kg	91.2	58	136
		EP080: Toluene	108-88-3	2 mg/kg	91.1	63	135

Environmental Division

INTERPRETIVE QUALITY CONTROL REPORT

Work Order	: **EM1105772**	Page	: 1 of 8
Client	: ENVIRO RESOURCES MANAGEMENT	Laboratory	: Environmental Division Melbourne
Contact	: MR ANDREW JAMES	Contact	: Graeme Jablonskas
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Facsimile	: ----	Facsimile	: +61-3-8549 9601
Project	: STRATHMONT	QC Level	: NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Site	: ----		
C-O-C number	: 209201-209203	Date Samples Received	: 01-JUN-2011
Sampler	: AJ	Issue Date	: 07-JUN-2011
Order number	: ----		
		No. of samples received	: 33
Quote number	: EN/009/10	No. of samples analysed	: 24

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release.

This Interpretive Quality Control Report contains the following information:

- Analysis Holding Time Compliance
- Quality Control Parameter Frequency Compliance
- Brief Method Summaries
- Summary of Outliers

Analysis Holding Time Compliance

The following report summarises extraction / preparation and analysis times and compares with recommended holding times. Dates reported represent first date of extraction or analysis and precludes subsequent dilutions and reruns. Information is also provided re the sample container (preservative) from which the analysis aliquot was taken. Elapsed period to analysis represents number of days from sampling where no extraction / digestion is involved or period from extraction / digestion where this is present. For composite samples, sampling date is assumed to be that of the oldest sample contributing to the composite. Sample date for laboratory produced leachates is assumed as the completion date of the leaching process. Outliers for holding time are based on USEPA SW 846, APHA, AS and NEPM (1999). A listing of breaches is provided in the Summary of Outliers.

Holding times for leachate methods (excluding elutriates) vary according to the analytes being determined on the resulting solution. For non-volatile analytes, the holding time compliance assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These soil holding times are: Organics (14 days); Mercury (28 days) & other metals (180 days). A recorded breach therefore does not guarantee a breach for all non-volatile parameters.

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)		Sample Date	Extraction / Preparation			Analysis		
			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA055: Moisture Content								
Soil Glass Jar - Unpreserved								
BH01_0.6-0.7,	BH02_0.1-0.2,	**31-MAY-2011**	**----**	----	----	**02-JUN-2011**	14-JUN-2011	✓
BH04_0.0-0.1,	BH05_1.2-1.3,							
BH05_2.0-2.1,	BH07_2.0-2.1,							
BH08_0.3-0.4,	BH09_0.1-0.2,							
BH10_0.01-0.1,	BH11_0.01-0.1,							
BH12_0.01-0.1,	BH13_0.2-0.25,							
BH14_0.5-0.6,	STOCKPILE A,							
STOCKPILE B,	STOCKPILE C,							
STOCKPILE D,	STOCKPILE E,							
DUP 1,	DUP 2,							
DUP 3,	DUP 4,							
DUP 5,	DUP 6							
EG005T: Total Metals by ICP-AES								
Soil Glass Jar - Unpreserved								
BH08_0.3-0.4,	BH09_0.1-0.2,	**31-MAY-2011**	**02-JUN-2011**	27-NOV-2011	✓	**03-JUN-2011**	27-NOV-2011	✓
STOCKPILE A,	STOCKPILE B,							
STOCKPILE C,	STOCKPILE D,							
STOCKPILE E,	DUP 3,							
DUP 5								
EG035T: Total Recoverable Mercury by FIMS								
Soil Glass Jar - Unpreserved								
BH08_0.3-0.4,	BH09_0.1-0.2,	**31-MAY-2011**	**02-JUN-2011**	28-JUN-2011	✓	**03-JUN-2011**	28-JUN-2011	✓
STOCKPILE A,	STOCKPILE B,							
STOCKPILE C,	STOCKPILE D,							
STOCKPILE E,	DUP 3,							
DUP 5								
EP068A: Organochlorine Pesticides (OC)								
Soil Glass Jar - Unpreserved								
BH01_0.6-0.7,	BH02_0.1-0.2,	**31-MAY-2011**	**02-JUN-2011**	14-JUN-2011	✓	**03-JUN-2011**	12-JUL-2011	✓
BH13_0.2-0.25,	BH14_0.5-0.6,							
DUP 6								

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)		Sample Date	Extraction / Preparation			Analysis		
			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP074A: Monocyclic Aromatic Hydrocarbons								
Soil Glass Jar - Unpreserved								
BH08_0.3-0.4, DUP 3	BH09_0.1-0.2,	**31-MAY-2011**	**01-JUN-2011**	14-JUN-2011	✓	**03-JUN-2011**	14-JUN-2011	✓
EP074B: Oxygenated Compounds								
Soil Glass Jar - Unpreserved								
BH08_0.3-0.4, DUP 3	BH09_0.1-0.2,	**31-MAY-2011**	**01-JUN-2011**	14-JUN-2011	✓	**03-JUN-2011**	14-JUN-2011	✓
EP074C: Sulfonated Compounds								
Soil Glass Jar - Unpreserved								
BH08_0.3-0.4, DUP 3	BH09_0.1-0.2,	**31-MAY-2011**	**01-JUN-2011**	14-JUN-2011	✓	**03-JUN-2011**	14-JUN-2011	✓
EP074D: Fumigants								
Soil Glass Jar - Unpreserved								
BH08_0.3-0.4, DUP 3	BH09_0.1-0.2,	**31-MAY-2011**	**01-JUN-2011**	14-JUN-2011	✓	**03-JUN-2011**	14-JUN-2011	✓
EP074E: Halogenated Aliphatic Compounds								
Soil Glass Jar - Unpreserved								
BH08_0.3-0.4, DUP 3	BH09_0.1-0.2,	**31-MAY-2011**	**01-JUN-2011**	14-JUN-2011	✓	**03-JUN-2011**	14-JUN-2011	✓
EP074F: Halogenated Aromatic Compounds								
Soil Glass Jar - Unpreserved								
BH08_0.3-0.4, DUP 3	BH09_0.1-0.2,	**31-MAY-2011**	**01-JUN-2011**	14-JUN-2011	✓	**03-JUN-2011**	14-JUN-2011	✓
EP074G: Trihalomethanes								
Soil Glass Jar - Unpreserved								
BH08_0.3-0.4, DUP 3	BH09_0.1-0.2,	**31-MAY-2011**	**01-JUN-2011**	14-JUN-2011	✓	**03-JUN-2011**	14-JUN-2011	✓
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Soil Glass Jar - Unpreserved								
BH10_0.01-0.1, BH12_0.01-0.1,	BH11_0.01-0.1, DUP 4	**31-MAY-2011**	**02-JUN-2011**	14-JUN-2011	✓	**03-JUN-2011**	12-JUL-2011	✓
EP075A: Phenolic Compounds								
Soil Glass Jar - Unpreserved								
BH08_0.3-0.4, DUP 3	BH09_0.1-0.2,	**31-MAY-2011**	**02-JUN-2011**	14-JUN-2011	✓	**03-JUN-2011**	12-JUL-2011	✓
EP075B: Polynuclear Aromatic Hydrocarbons								
Soil Glass Jar - Unpreserved								
BH08_0.3-0.4, DUP 3	BH09_0.1-0.2,	**31-MAY-2011**	**02-JUN-2011**	14-JUN-2011	✓	**03-JUN-2011**	12-JUL-2011	✓
EP075C: Phthalate Esters								
Soil Glass Jar - Unpreserved								
BH08_0.3-0.4, DUP 3	BH09_0.1-0.2,	**31-MAY-2011**	**02-JUN-2011**	14-JUN-2011	✓	**03-JUN-2011**	12-JUL-2011	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)		Sample Date	Extraction / Preparation			Analysis		
			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP075D: Nitrosamines								
Soil Glass Jar - Unpreserved BH08_0.3-0.4, DUP 3	BH09_0.1-0.2,	**31-MAY-2011**	**02-JUN-2011**	14-JUN-2011	✓	**03-JUN-2011**	12-JUL-2011	✓
EP075E: Nitroaromatics and Ketones								
Soil Glass Jar - Unpreserved BH08_0.3-0.4, DUP 3	BH09_0.1-0.2,	**31-MAY-2011**	**02-JUN-2011**	14-JUN-2011	✓	**03-JUN-2011**	12-JUL-2011	✓
EP075F: Haloethers								
Soil Glass Jar - Unpreserved BH08_0.3-0.4, DUP 3	BH09_0.1-0.2,	**31-MAY-2011**	**02-JUN-2011**	14-JUN-2011	✓	**03-JUN-2011**	12-JUL-2011	✓
EP075G: Chlorinated Hydrocarbons								
Soil Glass Jar - Unpreserved BH08_0.3-0.4, DUP 3	BH09_0.1-0.2,	**31-MAY-2011**	**02-JUN-2011**	14-JUN-2011	✓	**03-JUN-2011**	12-JUL-2011	✓
EP075H: Anilines and Benzidines								
Soil Glass Jar - Unpreserved BH08_0.3-0.4, DUP 3	BH09_0.1-0.2,	**31-MAY-2011**	**02-JUN-2011**	14-JUN-2011	✓	**03-JUN-2011**	12-JUL-2011	✓
EP075I: Organochlorine Pesticides								
Soil Glass Jar - Unpreserved BH08_0.3-0.4, DUP 3	BH09_0.1-0.2,	**31-MAY-2011**	**02-JUN-2011**	14-JUN-2011	✓	**03-JUN-2011**	12-JUL-2011	✓
EP075J: Organophosphorus Pesticides								
Soil Glass Jar - Unpreserved BH08_0.3-0.4, DUP 3	BH09_0.1-0.2,	**31-MAY-2011**	**02-JUN-2011**	14-JUN-2011	✓	**03-JUN-2011**	12-JUL-2011	✓
EP080/071: Total Petroleum Hydrocarbons								
Soil Glass Jar - Unpreserved BH04_0.0-0.1, BH05_2.0-2.1, DUP 1,	BH05_1.2-1.3, BH07_2.0-2.1, DUP 2	**31-MAY-2011**	**01-JUN-2011**	14-JUN-2011	✓	**03-JUN-2011**	14-JUN-2011	✓
Soil Glass Jar - Unpreserved BH04_0.0-0.1, BH05_2.0-2.1, DUP 1,	BH05_1.2-1.3, BH07_2.0-2.1, DUP 2	**31-MAY-2011**	**02-JUN-2011**	14-JUN-2011	✓	**03-JUN-2011**	12-JUL-2011	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080/071: Total Recoverable Hydrocarbons - NEPM 2010 Draft							
Soil Glass Jar - Unpreserved BH04_0.0-0.1, BH05_1.2-1.3, BH05_2.0-2.1, BH07_2.0-2.1, DUP 1, DUP 2	**31-MAY-2011**	**01-JUN-2011**	14-JUN-2011	✓	**03-JUN-2011**	14-JUN-2011	✓
Soil Glass Jar - Unpreserved BH04_0.0-0.1, BH05_1.2-1.3, BH05_2.0-2.1, BH07_2.0-2.1, DUP 1, DUP 2	**31-MAY-2011**	**02-JUN-2011**	14-JUN-2011	✓	**03-JUN-2011**	12-JUL-2011	✓
EP080: BTEX							
Soil Glass Jar - Unpreserved BH04_0.0-0.1, BH05_1.2-1.3, BH05_2.0-2.1, BH07_2.0-2.1, DUP 1, DUP 2	**31-MAY-2011**	**01-JUN-2011**	14-JUN-2011	✓	**03-JUN-2011**	14-JUN-2011	✓
EP080: BTEXN							
Soil Glass Jar - Unpreserved BH04_0.0-0.1, BH05_1.2-1.3, BH05_2.0-2.1, BH07_2.0-2.1, DUP 1, DUP 2	**31-MAY-2011**	**01-JUN-2011**	14-JUN-2011	✓	**03-JUN-2011**	14-JUN-2011	✓

Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(where) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **SOIL**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
Moisture Content	EA055-103	4	40	**10.0**	**10.0**	✓	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
PAH/Phenols (SIM)	EP075(SIM)	1	9	**11.1**	**10.0**	✓	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Pesticides by GCMS	EP068	2	15	**13.3**	**10.0**	✓	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Semivolatile Organic Compounds	EP075	2	12	**16.7**	**10.0**	✓	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Total Mercury by FIMS	EG035T	2	10	**20.0**	**10.0**	✓	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Total Metals by ICP-AES	EG005T	2	12	**16.7**	**10.0**	✓	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
TPH - Semivolatile Fraction	EP071	1	8	**12.5**	**10.0**	✓	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
TPH Volatiles/BTEX	EP080	2	15	**13.3**	**10.0**	✓	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Volatile Organic Compounds	EP074	1	7	**14.3**	**10.0**	✓	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Laboratory Control Samples (LCS)							
PAH/Phenols (SIM)	EP075(SIM)	1	9	**11.1**	**5.0**	✓	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Pesticides by GCMS	EP068	1	15	**6.7**	**5.0**	✓	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Semivolatile Organic Compounds	EP075	1	12	**8.3**	**5.0**	✓	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Total Mercury by FIMS	EG035T	1	10	**10.0**	**5.0**	✓	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Total Metals by ICP-AES	EG005T	1	12	**8.3**	**5.0**	✓	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
TPH - Semivolatile Fraction	EP071	1	8	**12.5**	**5.0**	✓	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
TPH Volatiles/BTEX	EP080	1	15	**6.7**	**5.0**	✓	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Volatile Organic Compounds	EP074	1	7	**14.3**	**5.0**	✓	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Method Blanks (MB)							
PAH/Phenols (SIM)	EP075(SIM)	1	9	**11.1**	**5.0**	✓	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Pesticides by GCMS	EP068	1	15	**6.7**	**5.0**	✓	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Semivolatile Organic Compounds	EP075	1	12	**8.3**	**5.0**	✓	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Total Mercury by FIMS	EG035T	1	10	**10.0**	**5.0**	✓	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Total Metals by ICP-AES	EG005T	1	12	**8.3**	**5.0**	✓	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
TPH - Semivolatile Fraction	EP071	1	8	**12.5**	**5.0**	✓	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
TPH Volatiles/BTEX	EP080	1	15	**6.7**	**5.0**	✓	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Volatile Organic Compounds	EP074	1	7	**14.3**	**5.0**	✓	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Matrix Spikes (MS)							
PAH/Phenols (SIM)	EP075(SIM)	1	9	**11.1**	**5.0**	✓	ALS QCS3 requirement
Pesticides by GCMS	EP068	1	15	**6.7**	**5.0**	✓	ALS QCS3 requirement
Semivolatile Organic Compounds	EP075	1	12	**8.3**	**5.0**	✓	ALS QCS3 requirement
Total Mercury by FIMS	EG035T	1	10	**10.0**	**5.0**	✓	ALS QCS3 requirement
Total Metals by ICP-AES	EG005T	1	12	**8.3**	**5.0**	✓	ALS QCS3 requirement
TPH - Semivolatile Fraction	EP071	1	8	**12.5**	**5.0**	✓	ALS QCS3 requirement
TPH Volatiles/BTEX	EP080	1	15	**6.7**	**5.0**	✓	ALS QCS3 requirement
Volatile Organic Compounds	EP074	1	7	**14.3**	**5.0**	✓	ALS QCS3 requirement

Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Moisture Content	EA055-103	SOIL	A gravimetric procedure based on weight loss over a 12 hour drying period at 103-105 degrees C. This method is compliant with NEPM (2010 Draft) Schedule B(3) Section 7.1 and Table 1 (14 day holding time).
Total Metals by ICP-AES	EG005T	SOIL	(APHA 21st ed., 3120; USEPA SW 846 - 6010) (ICPAES) Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM (1999) Schedule B(3)
Total Mercury by FIMS	EG035T	SOIL	AS 3550, APHA 21st ed., 3112 Hg - B (Flow-injection (SnCl2)(Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM (1999) Schedule B(3)
Pesticides by GCMS	EP068	SOIL	(USEPA SW 846 - 8270B) Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This technique is compliant with NEPM (1999) Schedule B(3) (Method 504,505)
TPH - Semivolatile Fraction	EP071	SOIL	(USEPA SW 846 - 8015A) Sample extracts are analysed by Capillary GC/FID and quantified against alkane standards over the range C10 - C36. This method is compliant with NEPM (1999) Schedule B(3) (Method 506.1)
Volatile Organic Compounds	EP074	SOIL	(USEPA SW 846 - 8260B) Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM (1999) Schedule B(3) (Method 501)
Semivolatile Organic Compounds	EP075	SOIL	(USEPA SW 846 - 8270B) Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This technique is compliant with NEPM (1999) Schedule B(3) (Method 502)
PAH/Phenols (SIM)	EP075(SIM)	SOIL	(USEPA SW 846 - 8270B) Extracts are analysed by Capillary GC/MS in Selective Ion Mode (SIM) and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM (1999) Schedule B(3) (Method 502 and 507)
TPH Volatiles/BTEX	EP080	SOIL	(USEPA SW 846 - 8260B) Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM (1999) Schedule B(3) (Method 501)

Preparation Methods	Method	Matrix	Method Descriptions
Hot Block Digest for metals in soils sediments and sludges	EN69	SOIL	USEPA 200.2 Mod. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM (1999) Schedule B(3) (Method 202)
Methanolic Extraction of Soils for Purge and Trap	ORG16	SOIL	(USEPA SW 846 - 5030A) 5g of solid is shaken with surrogate and 10mL methanol prior to analysis by Purge and Trap - GC/MS.
Tumbler Extraction of Solids (Option A - Concentrating)	ORG17A	SOIL	In-house, Mechanical agitation (tumbler). 20g of sample, Na2SO4 and surrogate are extracted with 150mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.
Tumbler Extraction of Solids (Option B - Non-concentrating)	ORG17B	SOIL	In-house, Mechanical agitation (tumbler). 10g of sample, Na2SO4 and surrogate are extracted with 20mL 1:1 DCM/Acetone by end over end tumble. The solvent is transferred directly to a GC vial for analysis.

Summary of Outliers

Outliers : Quality Control Samples

The following report highlights outliers flagged in the Quality Control (QC) Report. Surrogate recovery limits are static and based on USEPA SW846 or ALS-QWI/EN/38 (in the absence of specific USEPA limits). This report displays QC Outliers (breaches) only.

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **SOIL**

Compound Group Name	Laboratory Sample ID	Client Sample ID	**Analyte**	CAS Number	Data	Limits	**Comment**
Laboratory Control Spike (LCS) Recoveries							
EP075G: Chlorinated Hydrocarbons	2136054-010	----	**Hexachloropropylene**	1888-71-7	144 %	26.6-137%	**Recovery greater than upper control limit**
EP075I: Organochlorine Pesticides	2136054-010	----	**beta-BHC**	319-85-7	144 %	47-135%	**Recovery greater than upper control limit**
EP075I: Organochlorine Pesticides	2136054-010	----	**Endrin**	72-20-8	142 %	42-142%	**Recovery greater than upper control limit**

- **For all matrices, no Method Blank value outliers occur.**
- **For all matrices, no Duplicate outliers occur.**
- **For all matrices, no Matrix Spike outliers occur.**

Regular Sample Surrogates

- **For all regular sample matrices, no surrogate recovery outliers occur.**

Outliers : Analysis Holding Time Compliance

This report displays Holding Time breaches only. Only the respective Extraction / Preparation and/or Analysis component is/are displayed.

- **No Analysis Holding Time Outliers exist.**

Outliers : Frequency of Quality Control Samples

The following report highlights breaches in the Frequency of Quality Control Samples.

- **No Quality Control Sample Frequency Outliers exist.**

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division

SAMPLE RECEIPT NOTIFICATION (SRN)

Comprehensive Report

Work Order : **EM1105772**

Client	: **ENVIRO RESOURCES MANAGEMENT**	Laboratory	: Environmental Division Melbourne
Contact	: MS CAROLYN WALKER	Contact	: Graeme Jablonskas
Address	: LEVEL 6, 185 VICTORIA SQUARE ADELAIDE SA 5000	Address	: 4 Westall Rd Springvale VIC Australia 3171
E-mail	: carolyn.walker@erm.com	E-mail	: graeme.jablonskas@alsenviro.com
Telephone	: +61 08 8460 0002	Telephone	: +61-3-8549 9609
Facsimile	: ----	Facsimile	: +61-3-8549 9601
Project	: STRATHMONT	Page	: 1 of 3
Order number	: ----		
C-O-C number	: 209201-209203	Quote number	: ES2010ENVRES0300 (EN/009/10)
Site	: ----		
Sampler	: AJ	QC Level	: NEPM 1999 Schedule B(3) and ALS QCS3 requirement

Dates

Date Samples Received	: 01-JUN-2011	Issue Date	: 01-JUN-2011 12:59
Client Requested Due Date	: 06-JUN-2011	Scheduled Reporting Date	: **06-JUN-2011**

Delivery Details

Mode of Delivery	: Carrier	Temperature	: 1.8-2.6 - Ice present
No. of coolers/boxes	: 1	No. of samples received	: 33
Security Seal	: Intact.	No. of samples analysed	: 24

General Comments

- This report contains the following information:
  - Sample Container(s)/Preservation Non-Compliances
  - Summary of Sample(s) and Requested Analysis
  - Requested Deliverables
- **Samples received in appropriately pretreated and preserved containers.**
- **Sample(s) have been received within recommended holding times**
- **Please direct any queries related to sample condition / numbering / breakages to Peter Ravlic.**
- **Analytical work for this work order will be conducted at ALS Melbourne.**
- Sample Disposal - Aqueous (14 days), Solid (90 days) from date of completion of work order.

Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

- **No sample container / preservation non-compliance exist.**

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process neccessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.
When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Matrix: **SOIL**

Laboratory sample ID	Client sampling date / time	Client sample ID	(On Hold) SOIL No analysis requested	SOIL - EA055-103 Moisture Content	SOIL - EP068A (solids) Organochlorine Pesticides by GCMS	SOIL - EP075 SIM PAH only SIM - PAH only	SOIL - S-03 13 Metals (NEPM Suite - incl. Digestion)	SOIL - S-04 TPH/BTEX	SOIL - S-23 SVOC/VOC
EM1105772-001	31-MAY-2011 15:00	BH01_0.6-0.7		✓	✓				
EM1105772-002	31-MAY-2011 15:00	BH01_0.8-0.9	✓						
EM1105772-003	31-MAY-2011 15:00	BH02_0.1-0.2		✓	✓				
EM1105772-004	31-MAY-2011 15:00	BH02_0.4-0.5	✓						
EM1105772-005	31-MAY-2011 15:00	BH03_0.25-0.35	✓						
EM1105772-006	31-MAY-2011 15:00	BH04_0.0-0.1						✓	
EM1105772-007	31-MAY-2011 15:00	BH04_0.3-0.4	✓						
EM1105772-008	31-MAY-2011 15:00	BH05_1.2-1.3						✓	
EM1105772-009	31-MAY-2011 15:00	BH05_2.0-2.1						✓	
EM1105772-010	31-MAY-2011 15:00	BH05_3.0-3.1	✓						
EM1105772-011	31-MAY-2011 15:00	BH06_0.7-0.8	✓						
EM1105772-012	31-MAY-2011 15:00	BH06_0.9-0.95	✓						
EM1105772-013	31-MAY-2011 15:00	BH07_2.0-2.1						✓	
EM1105772-014	31-MAY-2011 15:00	BH07_2.3-2.4	✓						
EM1105772-015	31-MAY-2011 15:00	BH08_0.3-0.4					✓		✓
EM1105772-016	31-MAY-2011 15:00	BH08_0.9-1.0	✓						
EM1105772-017	31-MAY-2011 15:00	BH09_0.1-0.2					✓		✓
EM1105772-018	31-MAY-2011 15:00	BH10_0.01-0.1		✓		✓			
EM1105772-019	31-MAY-2011 15:00	BH11_0.01-0.1		✓		✓			
EM1105772-020	31-MAY-2011 15:00	BH12_0.01-0.1		✓		✓			
EM1105772-021	31-MAY-2011 15:00	BH13_0.2-0.25		✓	✓				
EM1105772-022	31-MAY-2011 15:00	BH14_0.5-0.6		✓	✓				
EM1105772-023	31-MAY-2011 15:00	STOCKPILE A					✓		
EM1105772-024	31-MAY-2011 15:00	STOCKPILE B					✓		
EM1105772-025	31-MAY-2011 15:00	STOCKPILE C					✓		
EM1105772-026	31-MAY-2011 15:00	STOCKPILE D					✓		
EM1105772-027	31-MAY-2011 15:00	STOCKPILE E					✓		
EM1105772-028	31-MAY-2011 15:00	DUP 1						✓	
EM1105772-029	31-MAY-2011 15:00	DUP 2						✓	
EM1105772-030	31-MAY-2011 15:00	DUP 3					✓		✓
EM1105772-031	31-MAY-2011 15:00	DUP 4		✓		✓			
EM1105772-032	31-MAY-2011 15:00	DUP 5					✓		
EM1105772-033	31-MAY-2011 15:00	DUP 6		✓	✓				

Requested Deliverables

ALL INVOICES		
- A4 - AU Tax Invoice (INV)	Email	au.accounts@erm.com
GRAEME JABLONSKAS		
- A4 - AU Sample Receipt Notification - Environmental (SRN)	Email	graeme.jablonskas@alsenviro.com
- Chain of Custody (CoC) (COC)	Email	graeme.jablonskas@alsenviro.com
MR ANDREW JAMES		
- *AU Certificate of Analysis - NATA (COA)	Email	andrew.james@erm.com
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	andrew.james@erm.com
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	andrew.james@erm.com
- A4 - AU Sample Receipt Notification - Environmental (SRN)	Email	andrew.james@erm.com
- Chain of Custody (CoC) (COC)	Email	andrew.james@erm.com
- EDI Format - ENMRG (ENMRG)	Email	andrew.james@erm.com
- EDI Format - ESDAT (ESDAT)	Email	andrew.james@erm.com
- EDI Format - XTab (XTAB)	Email	andrew.james@erm.com
MS CAROLYN WALKER		
- *AU Certificate of Analysis - NATA (COA)	Email	carolyn.walker@erm.com
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	carolyn.walker@erm.com
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	carolyn.walker@erm.com
- A4 - AU Sample Receipt Notification - Environmental (SRN)	Email	carolyn.walker@erm.com
- A4 - AU Tax Invoice (INV)	Email	carolyn.walker@erm.com
- Chain of Custody (CoC) (COC)	Email	carolyn.walker@erm.com
- EDI Format - ENMRG (ENMRG)	Email	carolyn.walker@erm.com
- EDI Format - ESDAT (ESDAT)	Email	carolyn.walker@erm.com
- EDI Format - XTab (XTAB)	Email	carolyn.walker@erm.com

CHAIN OF CUSTODY

ALS Laboratory: please tick →

☐ **Sydney**: 277 Woodpark Rd, Smithfield NSW 2164 Ph 02 8784 8555 E: samples.sydney@alsenviro.com
☐ **Newcastle**: 5 Rosegum Rd, Warabrook NSW 2304 Ph: 02 4968 9433 E: samples.newcastle@alsenviro.com
☐ **Brisbane**: 32 Shand St, Stafford QLD 4053 Ph: 07 3243 7222 E: samples.brisbane@alsenviro.com
☐ **Townsville**: 14-15 Desma Ct, Bohle QLD 4818 Ph: 07 4796 0600 E: townsville.environmental@alsenviro.com
☐ **Melbourne**: 2-4 Westall Rd, Springvale, VIC 3171 Ph: 03 8549 9600 E: samples.melbourne@alsenviro.com
☐ **Adelaide**: 2/1 Burma Rd, Pooraka SA 5095 Ph:08 8359 0890 E: adelaide@alsenviro.com
☐ **Perth**: 10 Hod Way, Malaga, WA 6090 Ph: 08 9209 7655 E: samples.perth@alsenviro.com
☐ **Launceston**: 27 Wellington St, Launceston, TAS 7250 Ph: 03 6331 2158 E: launceston@alsenviro.com

CLIENT: ERM
OFFICE: Adelaide
PROJECT: STRATHMONT
PURCHASE ORDER NUMBER:
PROJECT MANAGER: **CONTACT PH:**

TURNAROUND REQUIREMENTS: (Standard TAT may be longer for some tests e.g. Ultra Trace Organics)
☐ Standard TAT (List due date):
☐ Non Standard or urgent TAT (List due date):

ALS QUOTE NO.:

COC SEQUENCE NUMBER (Circle)

COC:	1	2	3	4	5	6	7
OF:	1	2	3	4	5	6	7

FOR LABORATORY USE ONLY (Circle)
Custody Seal Intact? Yes No N/A
Free ice / frozen ice bricks present upon receipt? Yes No N/A
Random Sample Temperature on Receipt: °C
Other comment: 1+8-2-6

SAMPLER: **SAMPLER MOBILE:**
COC emailed to ALS? (YES / NO) **EDD FORMAT** (or default):
Email Reports to (will default to PM if no other addresses are listed):
Email Invoice to (will default to PM if no other addresses are listed):

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
DATE/TIME:	DATE/TIME:	DATE/TIME:	DATE/TIME:

Hold until electronic version submitted. P/b, 11:45

COMMENTS/ SPECIAL HANDLING/STORAGE OR DISPOSAL: andrew.james@erm.com + carolyn.walker@erm.com

ALS USE	SAMPLE DETAILS MATRIX - SOLID (S), WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).								Additional Information
LAB ID	SAMPLE ID	DATE/ TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS									Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.
	BH01_0.6-0.7	31/5/11	S		1 JAR									
	BH01_0.8-0.9													
	BH02_0.1-0.2													
	BH02_0.4-0.5													
	BH03_0.25-0.35													
	BH04_0.0-0.1													
	BH04_0.3-0.4													
	BH05_1.2-1.3													
	BH05_2.0-2.1													
	BH05_3.0-3.1													
	BH06_0.7-0.8													
	BH06_0.9-0.95													
	BH07_2.0-2.1													
				TOTAL										

Environmental Division Melbourne
Work Order
EM1105772
Telephone: +61-3 8549 9600

209201

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP - Airfreight Unpreserved Plastic; V = VOA Vial HCl Preserved; VB = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Glass; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag.

CHAIN OF CUSTODY

ALS Laboratory: please tick →

☐ **Sydney**: 277 Woodpark Rd, Smithfield NSW 2164 Ph 02 8784 8555 E: samples.sydney@alsenviro.com

☐ **Newcastle**: 5 Rosegum Rd, Warabrook NSW 2304 Ph: 02 4968 9433 E: samples.newcastle@alsenviro.com

☐ **Brisbane**: 32 Shand St, Stafford QLD 4053 Ph: 07 3243 7222 E: samples.brisbane@alsenviro.com

☐ **Townsville**: 14-15 Desma Ct, Bohle QLD 4818 Ph: 07 4796 0600 E: townsville.environmental@alsenviro.com

☐ **Melbourne**: 2-4 Westall Rd, Springvale, VIC 3171 Ph: 03 8549 9600 E: samples.melbourne@alsenviro.com

☐ **Adelaide**: 2/1 Burma Rd, Pooraka SA 5095 Ph:08 8359 0890 E: adelaide@alsenviro.com

☐ **Perth**: 10 Hod Way, Malaga, WA 6090 Ph: 08 9209 7655 E: samples.perth@alsenviro.com

☐ **Launceston**: 27 Wellington St, Launceston, TAS 7250 Ph: 03 6331 2158 E: launceston@alsenviro.com

CLIENT: ERM

OFFICE: Adelaide

PROJECT: STRATHMONT

PURCHASE ORDER NUMBER:

PROJECT MANAGER: **CONTACT PH:**

TURNAROUND REQUIREMENTS: (Standard TAT may be longer for some tests e.g. Ultra Trace Organics)

☐ Standard TAT (List due date):

☐ Non Standard or urgent TAT (List due date):

ALS QUOTE NO.:

COC SEQUENCE NUMBER (Circle)

COC:	1	2	3	4	5	6	7
OF:	1	2	3	4	5	6	7

FOR LABORATORY USE ONLY (Circle)

Custody Seal Intact? Yes No N/A

Free ice / frozen ice bricks present upon receipt? Yes No N/A

Random Sample Temperature on Receipt: °C

Other comment: 1-8-2-6

SAMPLER: **SAMPLER MOBILE:**

COC emailed to ALS? (YES / NO) **EDD FORMAT** (or default):

Email Reports to (will default to PM if no other addresses are listed):

Email Invoice to (will default to PM if no other addresses are listed):

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
DATE/TIME:	DATE/TIME:	DATE/TIME:	DATE/TIME: 1/6, 11:45

COMMENTS/ SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE	SAMPLE DETAILS MATRIX - SOLID (S), WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).								Additional Information
LAB ID	SAMPLE ID	DATE/ TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS									Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.
	BH07_2.3-2.4	31/5/11	S											
	BH08_0.3-0.4													
	BH08_0.9-1.0													
	BH09_0.1-0.2													
	BH10_0.01-0.1													
	BH11_0.01-0.1													
	BH12_0.01-0.1													
	BH13_0.2-0.25													
	BH14_0.5-0.6													
	Stockpile A													
	Stockpile B													
	Stockpile C													
	Stockpile D													
				TOTAL										

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP - Airfreight Unpreserved Plastic; V = VOA Vial HCl Preserved; VB = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Glass; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag.

209202

CHAIN OF CUSTODY

ALS Laboratory: please tick →

☐ **Sydney**: 277 Woodpark Rd, Smithfield NSW 2164 Ph 02 8784 8555 E: samples.sydney@alsenviro.com

☐ **Newcastle**: 5 Rosegum Rd, Warabrook NSW 2304 Ph: 02 4968 9433 E: samples.newcastle@alsenviro.com

☐ **Brisbane**: 32 Shand St, Stafford QLD 4053 Ph: 07 3243 7222 E: samples.brisbane@alsenviro.com

☐ **Townsville**: 14-15 Desma Ct, Bohle QLD 4818 Ph: 07 4796 0600 E: townsville.environmental@alsenviro.com

☐ **Melbourne**: 2-4 Westall Rd. Ph: 03 8549 9600 E: samples.melbou

☐ **Adelaide**: 2/1 Burma Rd, Pooraka SA 50 Ph:08 8359 0890 E: adelaide@alsenviro.com

Malaga, WA 6090 655 E: samples.perth@alsenviro.com

Launceston: 27 Wellington St, Launceston, TAS 7250 Ph: 03 6331 2158 E: launceston@alsenviro.com

CLIENT: ERM

OFFICE: Adelaide

PROJECT: STRATHMONT

PURCHASE ORDER NUMBER:

PROJECT MANAGER: **CONTACT PH:**

TURNAROUND REQUIREMENTS: (Standard TAT may be longer for some tests e.g. Ultra Trace Organics)

☐ Standard TAT (List due date):

☐ Non Standard or urgent TAT (List due date):

ALS QUOTE NO.:

COC SEQUENCE NUMBER (Circle)

COC: 1 2 3 4 5 6 7

OF: 1 2 3 4 5 6 7

FOR LABORATORY USE ONLY (Circle)

Custody Seal Intact? Yes No N/A

Free ice / frozen ice bricks present upon receipt? Yes No N/A

Random Sample Temperature on Receipt: °C

Other comment: 1.8-2.6

SAMPLER: **SAMPLER MOBILE:**

COC emailed to ALS? (YES / NO) **EDD FORMAT** (or default):

Email Reports to (will default to PM if no other addresses are listed):

Email Invoice to (will default to PM if no other addresses are listed):

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
DATE/TIME:	DATE/TIME:	DATE/TIME:	Ahnce DATE/TIME: 1/6 11:45

COMMENTS/ SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE	SAMPLE DETAILS MATRIX - SOLID (S), WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).								Additional Information
LAB ID	SAMPLE ID	DATE/ TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS									Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.
	Stockpile E	31/5/11	S											
	Dup 1	↓	↓											
	Dup 2													
	Dup 3													
	Dup 4													
	Dup 5													
	Dup 6													
				TOTAL										

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP - Airfreight Unpreserved Plastic; V = VOA Vial HCl Preserved; VB = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Glass; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag.

209203

CHAIN OF CUSTODY

ALS Laboratory: please tick →

☐ Sydney: 277 Woodpark Rd, Smithfield NSW 2164 Ph 02 8784 8555 E: samples.sydney@alsenviro.com
☐ Newcastle: 5 Rosegum Rd, Warabrook NSW 2304 Ph: 02 4968 9433 E: samples.newcastle@alsenviro.com
☐ Brisbane: 32 Shand St, Stafford QLD 4053 Ph: 07 3243 7222 E: samples.brisbane@alsenviro.com
☐ Townsville: 14-15 Desma Ct, Bohle QLD 4818 Ph: 07 4796 0600 E: townsville.environmental@alsenviro.com
☐ Melbourne: 2-4 Westall Rd, Springvale, VIC 3171 Ph: 03 8549 9600 E: samples.melbourne@alsenviro.com
☐ Adelaide: 2/1 Burma Rd, Pooraka SA 5095 Ph: 08 8359 0890 E: adelaide@alsenviro.com
☐ Perth: 10 Hod Way, Malaga, WA 6090 Ph: 08 9209 7655 E: samples.perth@alsenviro.com
☐ Launceston: 27 Wellington St, Launceston, TAS 7250 Ph: 03 6331 2158 E: launceston@alsenviro.com

CLIENT: ERM
OFFICE: Adelaide
PROJECT: STRATHMONT
PURCHASE ORDER NUMBER:
PROJECT MANAGER: Carolyn Walker CONTACT PH: 0401 540 760
SAMPLER: A Torres SAMPLER MOBILE:
COC emailed to ALS? (YES) NO) EDD FORMAT (or default):
Email Reports to (will default to PM if no other addresses are listed):
Email Invoice to (will default to PM if no other addresses are listed):

TURNAROUND REQUIREMENTS: (Standard TAT may be longer for some tests e.g. Ultra Trace Organics)
☐ Standard TAT (List due date):
☐ Non Standard or urgent TAT (List due date):

ALS QUOTE NO.:

COC SEQUENCE NUMBER (Circle)
COC: (1) 2 3 4 5 6 7
OF: 1 2 (3) 4 5 6 7

FOR LABORATORY USE ONLY (Circle)
Custody Seal Intact? Yes No N/A
Free ice / frozen ice bricks present upon receipt? Yes No N/A
Random Sample Temperature on Receipt: °C
Other comment:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
DATE/TIME: Hold until electronic version submitted.	DATE/TIME:	DATE/TIME:	DATE/TIME:

COMMENTS/ SPECIAL HANDLING/STORAGE OR DISPOSAL: andrew.james@erm.com + carolyn.walker@erm.com

ALS USE	SAMPLE DETAILS MATRIX - SOLID (S), WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).								Additional information
LAB ID	SAMPLE ID	DATE/ TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	OC	TPH + BTEX	8-DS VOC (S23)	VOC	NEPM suite metals (S39)	PAH				Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.
1	BH01_0.6-0.7	3/5/11	S		1	✓	—	—	—	—	—				—
2	BH01_0.8-0.9					—	—	—	—	—	—				HOLD
3	BH02_0.1-0.2					✓	—	—	—	—	—				—
4	BH02_0.4-0.5					—	—	—	—	—	—				HOLD
5	BH03_0.25-0.35					—	—	—	—	—	—				HOLD
6	BH04_0.0-0.1					—	✓	—	—	—	—				—
7	BH04_0.3-0.4					—	—	—	—	—	—				HOLD
8	BH05_1.2-1.3					—	✓	—	—	—	—				~~HOLD~~ —
9	BH05_2.0-2.1					—	✓	—	—	—	—				—
10	BH05_3.0-3.1					—	✓	—	—	—	—				~~HOLD~~ HOLD
11	BH06_0.7-0.8					—	—	—	—	—	—				HOLD
12	BH06_0.9-0.95					—	—	—	—	—	—				HOLD
13	BH07_2.0-2.1					—	✓	—	—	—	—				—
					TOTAL	2	4	0	0	0					

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP - Airfreight Unpreserved Plastic; V = VOA Vial HCl Preserved; VB = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Glass; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag.

209201

* 3 day turnaround required

CHAIN OF CUSTODY

ALS Laboratory: please tick →

☐ Sydney: 277 Woodpark Rd, Smithfield NSW 2164 Ph: 02 8784 8555 E: samples.sydney@alsenviro.com
☐ Newcastle: 5 Rosegum Rd, Warabrook NSW 2304 Ph: 02 4958 8433 E: samples.newcastle@alsenviro.com
☐ Brisbane: 32 Shand St, Stafford QLD 4053 Ph: 07 3243 7222 E: samples.brisbane@alsenviro.com
☐ Townsville: 14-15 Desma Ct, Bohle QLD 4818 Ph: 07 4796 0600 E: townsville.environmental@alsenviro.com
☐ Melbourne: 2-4 Westall Rd, Springvale, VIC 3171 Ph: 03 8549 9600 E: samples.melbourne@alsenviro.com
☐ Adelaide: 2/1 Burma Rd, Pooraka SA 5095 Ph: 08 8359 0890 E: adelaide@alsenviro.com
☐ Perth: 10 Hod Way, Malaga, WA 6090 Ph: 08 9209 7655 E: samples.perth@alsenviro.com
☐ Launceston: 27 Wellington St, Launceston, TAS 7250 Ph: 03 6331 2158 E: launceston@alsenviro.com

CLIENT: ERM
OFFICE: Adelaide
PROJECT: STRATHALBYN
PURCHASE ORDER NUMBER:
PROJECT MANAGER: CONTACT PH:
SAMPLER: SAMPLER MOBILE:
COC emailed to ALS? (YES / NO) EDD FORMAT (or default):
Email Reports to (will default to PM if no other addresses are listed):
Email Invoice to (will default to PM if no other addresses are listed):

TURNAROUND REQUIREMENTS: (Standard TAT may be longer for some tests e.g. Ultra Trace Organics)
☐ Standard TAT (List due date):
☐ Non Standard or urgent TAT (List due date):

ALS QUOTE NO.:

COC SEQUENCE NUMBER (Circle)
COC: 1 (2) 3 4 5 6 7
OF: 1 2 (3) 4 5 6 7

FOR LABORATORY USE ONLY (Circle)
Custody Seal Intact? Yes No N/A
Free ice / frozen ice bricks present upon receipt? Yes No N/A
Random Sample Temperature on Receipt: °C
Other comment:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
DATE/TIME:	DATE/TIME:	DATE/TIME:	DATE/TIME:

COMMENTS/ SPECIAL HANDLING/STORAGE OR DISPOSAL: 3 day turnaround required

ALS USE	SAMPLE DETAILS MATRIX - SOLID (S), WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED Including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).								Additional Information
LAB ID	SAMPLE ID	DATE/ TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	OC	(S4-T) BTEX C6-C36	VOC SVOC (S23)	NEPM Suite (S-3)	PAHs				Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.
14	BH07 23-24	5/11/11	S			—	—	—	—	—				HOLD
15	BH08 03-04					—	—	✓	✓	—				—
16	BH08 09-10					—	—	—	—	—				HOLD
17	BH09 01-02					—	—	✓	✓	—				—
18	BH10 0.01-0.1					—	—	—	—	✓				—
19	BH11 0.01-0.1					—	—	—	—	✓				—
20	BH12 0.01-0.1					—	—	—	—	✓				—
21	BH13 0.2-0.25					✓	✓	—	—	—				—
22	BH14 0.5-0.6					✓	—	—	—	—				—
23	Stockpile A					✓	—	—	✓	—				— HOLD
24	Stockpile B					—	—	—	✓	—				—
25	Stockpile C					—	—	—	✓	—				—
26	Stockpile D					—	—	—	✓	—				—
				TOTAL		2	0	2	6	3				

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33

209202

CHAIN OF CUSTODY

ALS Laboratory: please tick →

☐ Sydney: 277 Woodpark Rd, Smithfield NSW 2164 Ph 02 8784 8555 E: samples.sydney@alsenviro.com
☐ Newcastle: 5 Rosegum Rd, Warabrook NSW 2304 Ph: 02 4968 9433 E: samples.newcastle@alsenviro.com
☐ Brisbane: 32 Shand St, Stafford QLD 4053 Ph: 07 3243 7222 E: samples.brisbane@alsenviro.com
☐ Townsville: 14-15 Desma Ct, Bohle QLD 4818 Ph: 07 4796 0600 E: townsville.environmental@alsenviro.com
☐ Melbourne: 2-4 Westall Rd, Springvale, VIC 3171 Ph: 03 8549 9600 E: samples.melbourne@alsenviro.com
☐ Adelaide: 2/1 Burma Rd, Pooraka SA 5095 Ph: 08 8359 0890 E: adelaide@alsenviro.com
☐ Perth: 10 Hod Way, Malaga, WA 6090 Ph: 08 9209 7655 E: samples.perth@alsenviro.com
☐ Launceston: 27 Wellington St, Launceston, TAS 7250 Ph: 03 6331 2158 E: launceston@alsenviro.com

CLIENT: EKM
OFFICE: Adelaide
PROJECT: STRATHMONT
PURCHASE ORDER NUMBER:
PROJECT MANAGER:
SAMPLER:
COC emailed to ALS? (YES / NO)
Email Reports to (will default to PM if no other addresses are listed):
Email Invoice to (will default to PM if no other addresses are listed):
COMMENTS/ SPECIAL HANDLING/STORAGE OR DISPOSAL: 3 day turnaround required.

TURNAROUND REQUIREMENTS: (Standard TAT may be longer for some tests e.g. Ultra Trace Organics)
☐ Standard TAT (List due date):
☐ Non Standard or urgent TAT (List due date):

ALS QUOTE NO.:
CONTACT PH:
SAMPLER MOBILE:
EDD FORMAT (or default):

COC SEQUENCE NUMBER (Circle)
COC: 1 2 3 4 5 6 7
OF: 1 2 3 4 5 6 7

FOR LABORATORY USE ONLY (Circle)
Custody Seal Intact? Yes No N/A
Free ice / frozen ice bricks present upon receipt? Yes No N/A
Random Sample Temperature on Receipt: °C
Other comment:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
DATE/TIME:	DATE/TIME:	DATE/TIME:	DATE/TIME:

ALS USE	SAMPLE DETAILS MATRIX - SOLID (S), WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price). Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).								Additional Information
LAB ID	SAMPLE ID	DATE/ TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	OC	BTEX TPH F1 F2 (S4-T)	VOC SVOC (S-23)	NEPM 5 Metals (S-3)	PAHS				Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.
27	Stockpile E	3/5/11	S			✓	—	—	✓	—				—
28	Dup 1					—	✓	—	—	—				—
29	Dup 2					—	✓	—	—	—				—
30	Dup 3					—	—	✓	✓	—				—
31	Dup 4					—	—	—	✓	✓				—
32	Dup 5					—	—	—	✓	—				—
33	Dup 6					✓	✓	—	—	—				—
					TOTAL	1	2	1	3	1				

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209203

ATTACHMENT E

QUALITY CONTROL/QUALITY ASSURANCE TABLE

Field Duplicates (SOIL)

		SDG	EM1105772	EM1105773		EM1105772	EM1105773		EM1105772	EM1105773		EM1105772	EM1105773	
		Field ID	BH04_0.0-0.1	DUP 1	**RPD**	BH05_1.2-1.3	DUP 2	**RPD**	BH09_0.1-0.2	DUP 3	**RPD**	Stockpile A	DUP 5	**RPD**
		Sampled Date	9/05/2011	9/05/2011		9/05/2011	9/05/2011		9/05/2011	9/05/2011		9/05/2011	9/05/2011	
Chem_Group	**ChemName**	**Units**	**LOR**													
TPH	TPH C6 - C9 Fraction	mg/kg	10	**	**	**	452	70	**146.36**	-	-		-	-	
	TPH C6-C10 Fraction	mg/kg	10	**	**	**	887	153	**141.15**	-	-		-	-	
	TPH C10 - C14 Fraction	mg/kg	50	**	**	**	680	90	**153.25**	-	-		-	-	
	TPH C15 - C28 Fraction	mg/kg	100	140	<100	94.74	**	**	**	-	-		-	-	
	TPH C29 - C36 Fraction	mg/kg	100	200	140	35.294	**	**	**	-	-		-	-	
	TPH+C10 - C36 (Sum of total)	mg/kg	50	340	140	83.333	680	90	**153.25**	-	-		-	-	
	TPH C10-C40 (Sum of total)	mg/kg	50	490	320	41.975	580	220	**90.00**	-	-		-	-	
BTEX	Benzene	mg/kg	0.2	**	**	**	0.4	<0.2	120	-	-		-	-	
	Ethylbenzene	mg/kg	0.5	**	**	**	12.4	2.1	**142.07**	-	-		-	-	
	Toluene	mg/kg	0.5	**	**	**	15.1	2.6	**141.24**	-	-		-	-	
	Xylene (m & p)	mg/kg	0.5	**	**	**	176	27.5	**145.95**	-	-		-	-	
	Xylene (o)	mg/kg	0.5	**	**	**	80.7	13.6	**142.31**	-	-		-	-	
	Xylene Total	mg/kg	0.5	**	**	**	257	41.1	**144.85**	-	-		-	-	
Volatile PAH	Naphthalene	mg/kg	1	<1	<1		23	7	**106.67**	-	-		-	-	
Metals	Arsenic	mg/kg	5	-	-		-	-		**	**	**	<5	35	173.33
	Barium	mg/kg	10	-	-		-	-		40	30	28.57	170	110	42.86
	Beryllium	mg/kg	1	-	-		-	-		**	**	**	**	**	**
	Cadmium	mg/kg	1	-	-		-	-		**	**	**	**	**	**
	Chromium (III + IV)	mg/kg	2	-	-		-	-		9	4	76.92	17	20	16.22
	Cobalt	mg/kg	2	-	-		-	-		**	**	**	4	5	22.22
	Copper	mg/kg	5	-	-		-	-		**	**	**	8	13	47.62
	Lead	mg/kg	5	-	-		-	-		<5	6	82.35	7	13	60.00
	Manganese	mg/kg	5	-	-		-	-		28	35	22.22	97	190	**64.80**
	Mercury	mg/kg	0.1	-	-		-	-		**	**	**	**	**	**
	Nickel	mg/kg	2	-	-		-	-		6	3	66.67	6	8	28.57
	Vanadium	mg/kg	5	-	-		-	-		**	**	**	69	44	44.25
	Zinc	mg/kg	5	-	-		-	-		<5	8	104.76	17	24	34.15

*High RPDs are in bold (Acceptable RPDs for each LOR multiplier range are defined as follows:
Results < 10 x LOR = No RPD limit; Results 10-20 x LOR = RPD value of 0-50; Results >20 x LOR = RPD value of 0-20)
**RPDs have only been generated for results > LOR