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LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

23/5/2006 7:12PM

FOLIO: 21/602327

First Title(s): SEE PRIOR TITLE(S)

Prior Title(s): VOL 13892 FOL 112

Recorded	Number	Type of Instrument	C.T. Issue
28/3/1988		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
1/9/1988		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
7/11/1988	X912271	TRANSFER OF LEASE	
7/11/1988	X912272	SUB-LEASE	
26/4/1991	Z610229	LEASE	EDITION 1
1/4/1997	2940201	LEASE	EDITION 2
5/7/2002	8745999	LEASE	EDITION 3

*** END OF SEARCH ***

HLA - Macquarie Park ALSP

PRINTED ON 23/5/2006

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B97

/Req: B158265

/Doc: CT 13892-112

/Prt: 19-May-2006

NEW SOUTH WALES

Appln. No.6417

Prior Title Vol.13448 Fol.199

13892 Fol.112

EDITION ISSUED



CANCELLED 27 6 1979

I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

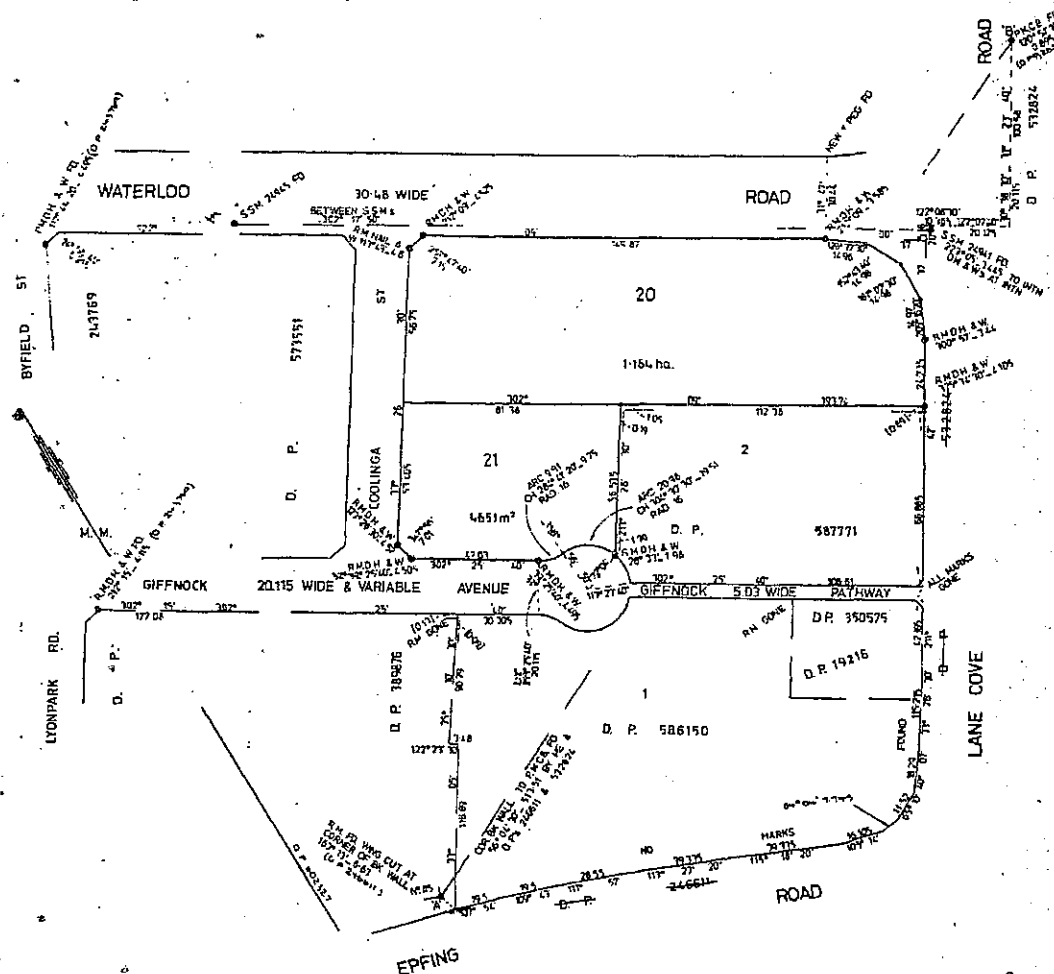
SEE AUTO FOLIO

Registrar General.



PLAN SHOWING LOCATION OF LAND

LENGTHS ARE IN METRES



ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 21 in Deposited Plan 602327 at North Ryde in the Municipality of Ryde Parish of Hunters Hill and County of Cumberland being part of Portion 139 granted to William Kent Junior on 17-4-1803.

FIRST SCHEDULE

LOCAL GOVERNMENT OF INFORMATION BOARD.

SECOND SCHEDULE

1. Reservations and conditions, if any, contained in the Crown Grant above referred to.

Miff Pty. Limited by Transfer V222363. Registered 11-7-1984.

1563516L
 7K
 8L
 9CC

V22363 TOP
 4M

W235629 4M
 W974923 6M

PARTICULARS

DECEMBER

SEE AUTO FOLIO

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

CERTIFICATE OF TITLE

PROPERTY ACT, 1900



CT12639-110

NEW SOUTH WALES

Vol. 12639 Vol. 110

Appln. Nos. 195 and 641

Prior Title Vol. 2522 Vol. 148



CANCELLED R

Edition issued 25-11-1974

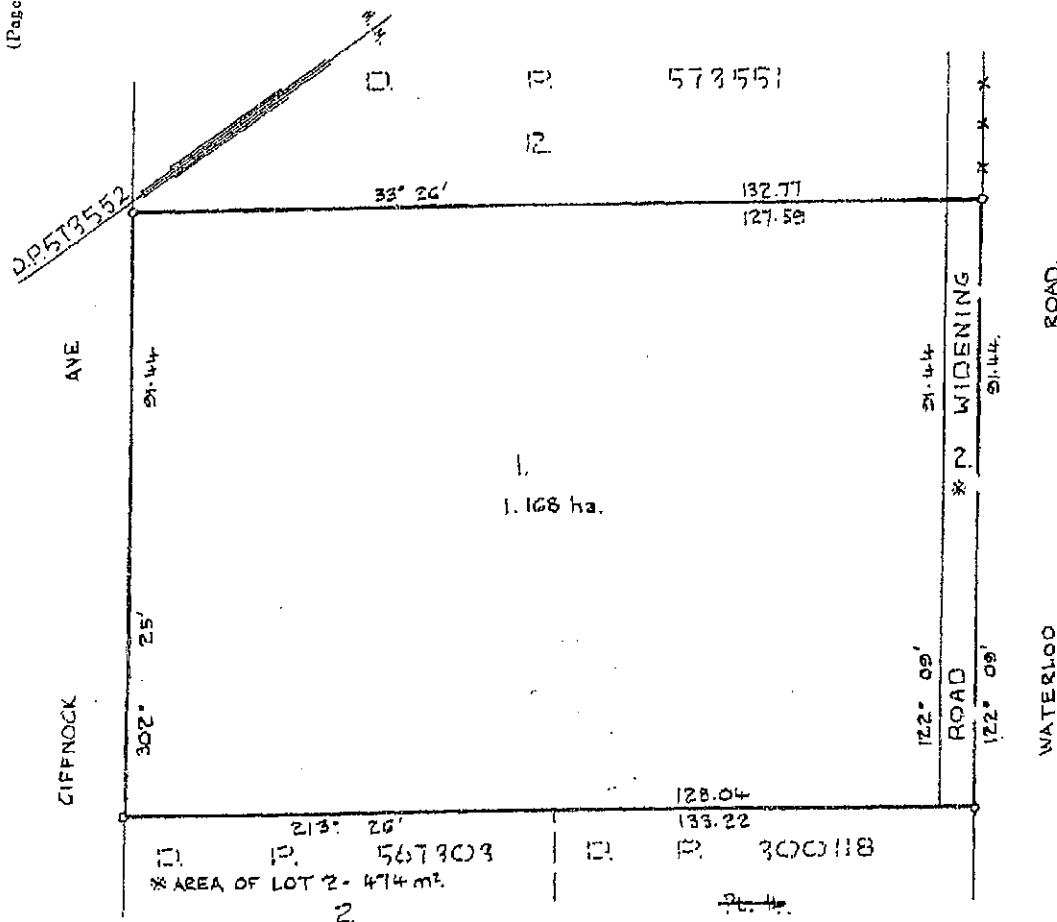
I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

Lawton
Registrar General.



PLAN SHOWING LOCATION OF LAND

LENGTHS ARE IN METRES



WARNING: THIS DOCUMENT MUST NOT BE REMOVED FROM THE LAND TITLES OFFICE.

ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 1 in Deposited Plan 573552 at North Ryde in the Municipality of Ryde Parish of Hunters Hill and County of Cumberland, being part of Portion 139 granted to William Kent Junior on 17-4-1803.

FIRST SCHEDULE

CANALBETH PT. LIMITED.

SECOND SCHEDULE

1. Reservations and conditions, if any, contained in the Crown Grant above referred to.
2. Mortgage No. 1908-117 to Permanent Nominees Limited, Entered 8-7-1974. (Mortgagee's Name)

20923:627

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED.

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

REGISTERED PROPRIETOR

~~This deed is cancelled as to the said~~

New Certificates of Title have issued on 4-3-1977

for lots in Weymouth Plan No. 59/100 as follows:-

~~Vol. 129~~ Vol. 129 respectively

NEW CERTIFICATE OF TITLE ISSUED FOR LOT 1 IN DP1043041. RESIDUE COMPRISES ROAD BEING LOT 50 & 52 IN DP1043041. SEE REQUEST 8984763

2000

SECOND SCHEDULE (continued)

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

1373-5500
 1373-5500
 1373-5500

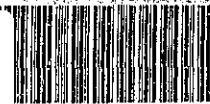
B97

/Req: B158269

/Doc: CT 13448-199

/Prt: 19-May-2006

NEW SOUTH WALES



13448199

3448 Fol 199

Appln. Nos. 195 & 641

Prior Title Vol. 12639 Fol. 110



EDITION ISSUED

28 9 1977

I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

[Signature]
Registrar General.

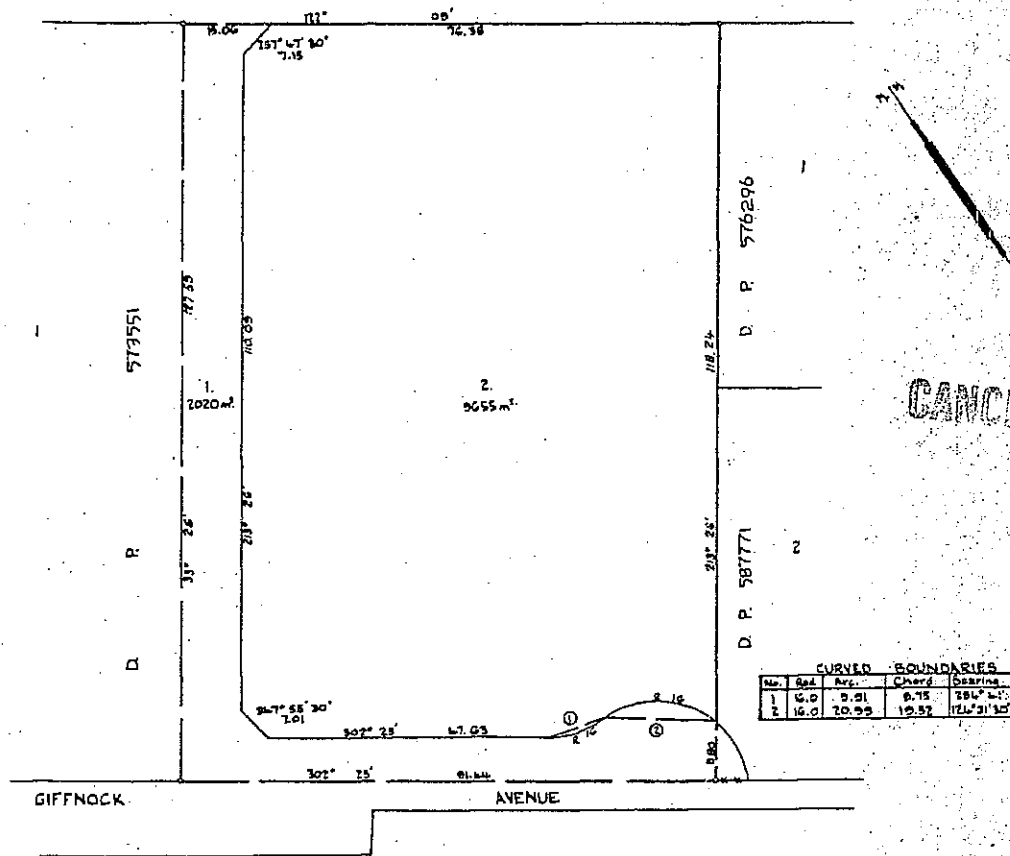


PLAN SHOWING LOCATION OF LAND

LENGTHS ARE IN METRES

WATERLOO

ROAD



ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 2 in Deposited Plan 591400 at North Ryde in the Municipality of Ryde Parish of Hunters Hill and County of Cumberland being part of Portion 139 granted to William Kent, Junior on 17-4-1803.

FIRST SCHEDULE

~~EUTECRIC (AUSTRALIA) PTY. LIMITED.~~

SECOND SCHEDULE

1. Reservations and conditions, if any, contained in the Crown Grant above referred to.

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

WARNING: THIS DOCUMENT MUST NOT BE REMOVED FROM THE LAND TITLES OFFICE

[illegible]

REGISTRAR GENERAL

NEW CERTIFICATE(S) OF TITLE ISSUING ON DP 602 327 :
 NO DRAFTING TO BE ACCENTED WITHOUT REFERENCE TO
 SURVEY DRAFTING BRANCH.

SECOND SCHEDULE (continued)

[illegible]

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED



IFICATE OF TITLE

CT12726-163

NEW SOUTH WALES

■ L. PROPERTY ACT, 1980

Appln. No. 195

Prior Title Vol. 2868 Fol. 151



Vol. 12726 No. 163

Edition issued 6-3-1975

CANCELLED ☒

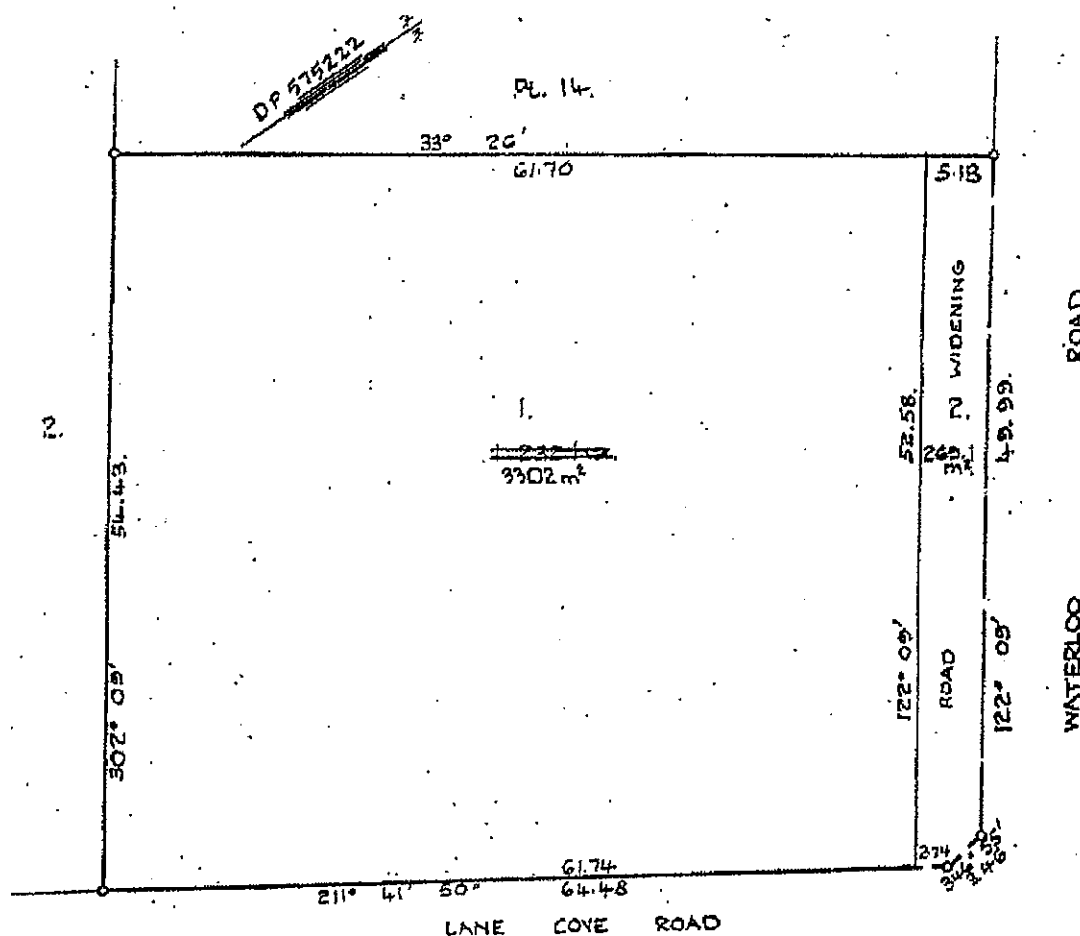
I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

J. Watson
Registrar General.



PLAN SHOWING LOCATION OF LAND

LENGTHS ARE IN METRES



ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 1 in Deposited Plan. 575222 at North Ryde in the Municipality of Ryde, Parish of Hunters Hill and County of Cumberland being part of Portion 139 granted to William Kent Junior on 17-4-1803.

FIRST SCHEDULE

~~MARIA JOSEPHINE TERESA PAPALIO of North Ryde, Widow, BEN PAPALIO of North Ryde, Motor Mechanic, JOHN PAPALIO of Rydalmore, Manager, JACK PAPALIO of Leichhardt, Bootmaker and JOSEPH PAPALIO of Bondi Junction, Storeman all as Tenants in Common in equal shares.~~

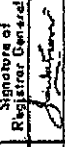
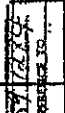
SECOND SCHEDULE

1. Reservations and conditions, if any, contained in the Crown Grant above referred to.

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

THE NEW YORK PUBLIC LIBRARY
ASTOR LENOX TILDEN FOUNDATIONS
500 FIFTH AVENUE
NEW YORK 17, N. Y.

FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR	NATURE	INSTRUMENT NUMBER	DATE	ENTERED	Signature of Registrar General
Eutectic (Australia) Pty. Limited	Transfer	P373306		3-9-1975	
This deed is cancelled as re WHOLE (EA 83AD)					
New Certificates of Title have issued on 14-9-1977					
for lots in DP 1044956 Plan No. 571257 as follows:-					
Lots 1 Vol. 137533 Fol. 147 respectively.					
					
REGISTRAR GENERAL					
The residue of land in this folio comprises ROAD.					
					
REGISTRAR GENERAL					
NEW CERTIFICATE OF TITLE ISSUED FOR LOT 1 IN DP 1043041. RESIDUE COMPRISES ROAD BEING LOT 22 & 25 IN DP 1043041. SEE REQUEST 8984763					
					
REGISTRAR GENERAL					

P373306R
of 12.2.77
DP 1044956
PLAN OF ACQUISITION OF
LEASE OF LOT 6
DP 1044956
ACQUIRED FOR
THE PURPOSES
OF THE STATE RAIL
AUTHORITY VIDE
CR2, 11.4.2003
FO L 4460
9386125R Regd
9775401 Regd

SECOND SCHEDULE (continued)

NATURE	INSTRUMENT NUMBER	DATE	PARTICULARS	ENTERED	Signature of Registrar General	CANCELLATION
REQUEST	935120		The interest of the Council of the Municipality of Ryde in the addition to existing road shown is D.P. 591284	19.8.1977		
			PROPOSED ACQUISITION PURSUANT TO SECTION 11 LAND ACQUISITION (JUST TERMS COMPENSATION) ACT 1951			
			RESPECTING THE PLOT BEING LOT 6 SHOWN IN DEEDS			
			ISSUE DATED 2-1-2003. Registered 20-10-2003			
			Lease to State Rail Authority of New South Wales also part being Lot 6			
			DP 1044956 Expires 10/4/2009	8.3.2009		

NOTE: ENTRIES ROLLED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED.

B97

/Req: B158268
/Doc: CT 13433-247
/Prt: 19-May-2006



13433 247

NEW SOUTH WALES

Appln. No.195

Prior Title Vol.12726 Fol.163



13433 247

EDITION ISSUED

15 9 1977

I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

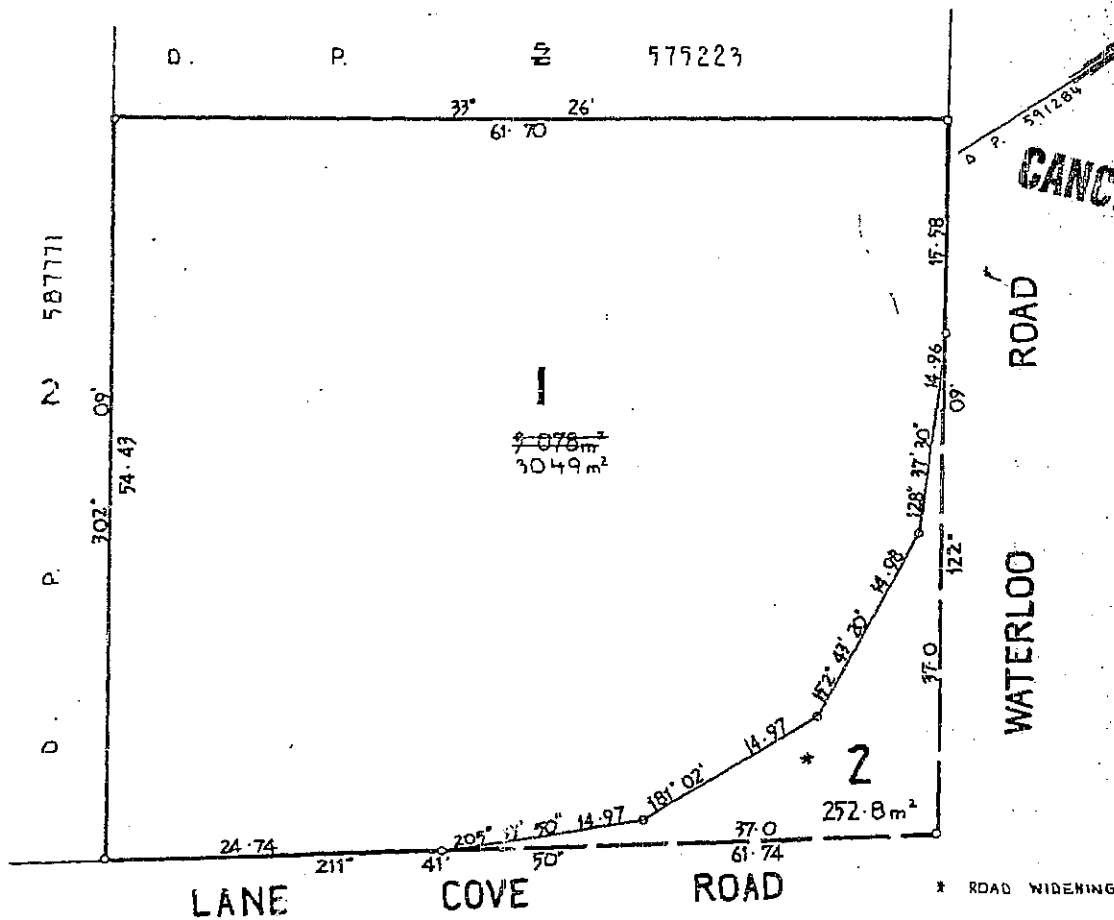
[Signature]

Registrar General.



PLAN SHOWING LOCATION OF LAND

LENGTHS ARE IN METRES



ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 1 in Deposited Plan 591284 at North Ryde in the Municipality of Ryde Parish of Hunters Hill and County of Cumberland being part of Portion 139 granted to William Kent Junior on 17-4-1803.

FIRST SCHEDULE

EUTECTIC (AUSTRALIA) PTY. LIMITED.

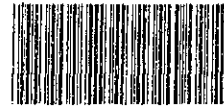
SECOND SCHEDULE

1. Reservations and conditions, if any, contained in the Crown Grant above referred to.

B97

/Req: B158266
/Doc: CT 12711-169
/Prt: 19-May-2006

NEW SOUTH WALES



12711

Vol. **12711** Fol. **169**

Appln. No. 195

Prior Title Vol. 3125 Fol. 165

Edition issued 24-2-1975



I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

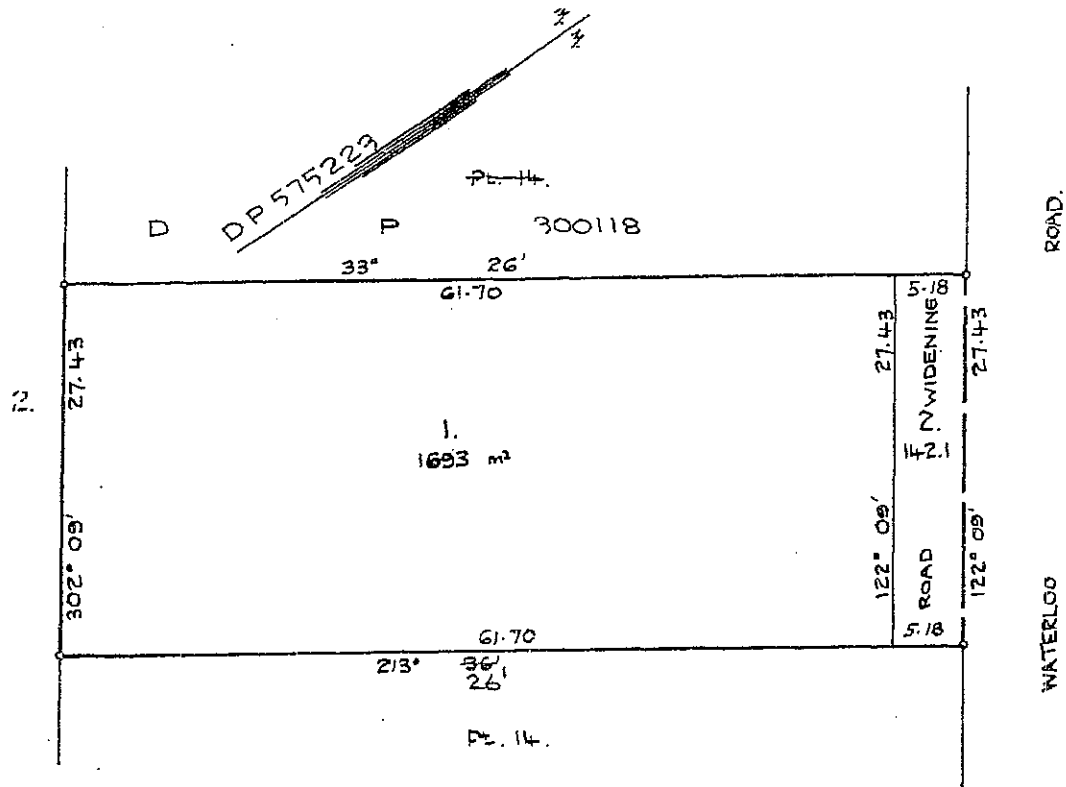
Janatson
Registrar General.



PLAN SHOWING LOCATION OF LAND

LENGTHS ARE IN METRES

CANCELLED



ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 1 in Deposited Plan 575223 at North Ryde, in the Municipality of Ryde, Parish of Hunters Hill and County of Cumberland being part of Portion 139 granted to William Kent Junior on 17-4-1803.

FIRST SCHEDULE

~~MARIA JOSEPHINE TERESA PAPALLO of North Ryde, Widow, BEN PAPALLO of North Ryde, Motor Mechanic, JOHN PAPALLO of Bondi Junction, Manager JACK PAPALLO of Leichhardt, Bootmaker and JOSEPE PAPALLO of Bondi Junction, Storeman all as Tenants in Common in equal shares.~~

SECOND SCHEDULE

1. Reservations and conditions, if any, contained in the Crown Grant above referred to.

NOTE. ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED.

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

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B97

/Req: B158264

/Doc: CT 13892-111

/Prt: 19-May-2006



NEW SOUTH WALES

Appln. Nos. 195 & 641

Prior Titles Vol. 12711 Fol. 169
Vol. 12786 Fol. 17
Vol. 13433 Fol. 247
Vol. 13448 Fol. 199



Vol. 13892 Fol. 111

EDITION ISSUED

CANCELLED 1979

I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

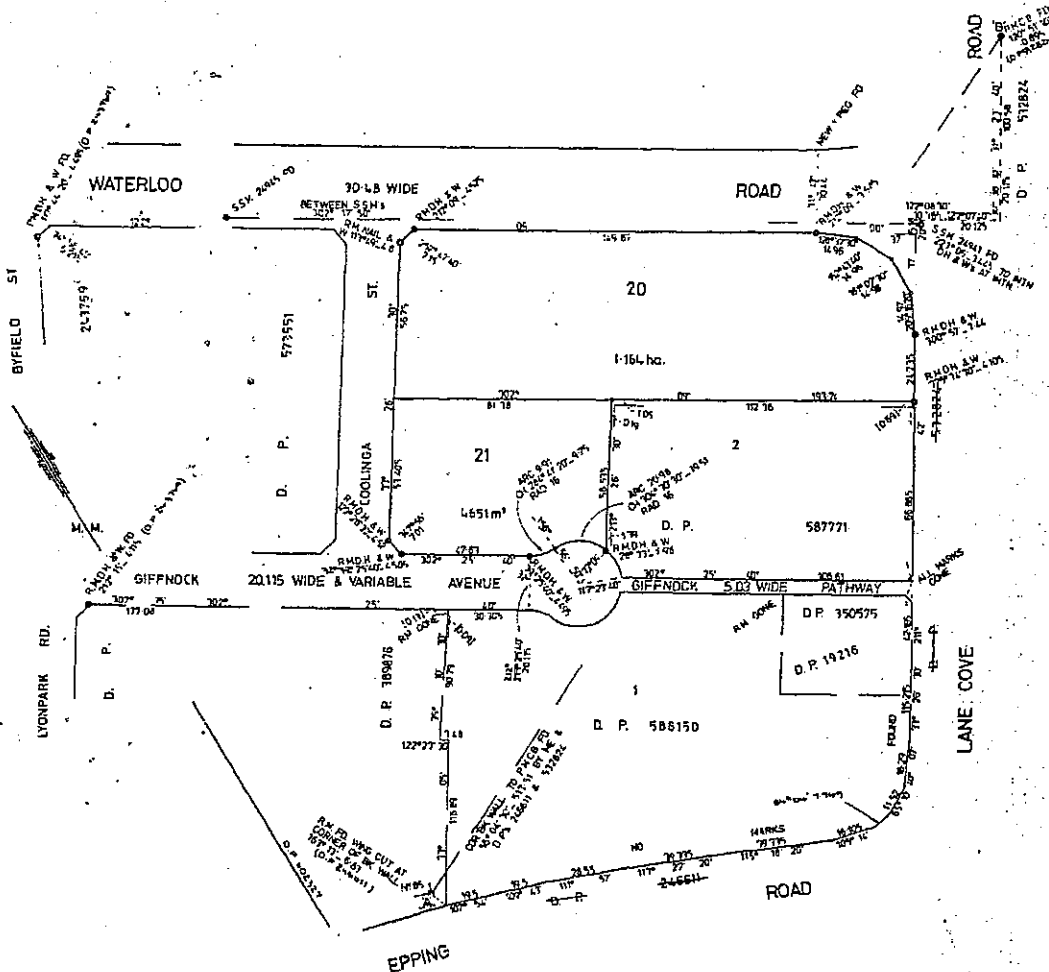
SEE AUTO FOLIO

Registrar General.



PLAN SHOWING LOCATION OF LAND

LENGTHS ARE IN METRES



ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 20 in Deposited Plan 602327 at North Ryde in the Municipality of Ryde Parish of Hunters Hill and County of Cumberland being part of Portion 139 granted to William Kent Junior on 17-4-1803.

FIRST SCHEDULE

LOCAL GOVERNMENT GRANT BOARD.

SECOND SCHEDULE

1. Reservations and conditions, if any, contained in the Crown Grant above referred to.

GAY

R
CT12
558/8002
— 12
C.F. 14-7-81
56458021e
— 36
— 400
V425036, 400/2
— 76
V711060 V/m²
V803024 V/m²
440-2 78/345/2

REGISTERED PROPRIETOR

LEADER

2

SECOND SCHEDULE (continued)

[illegible]

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

B97

/Req: B158267
 /Doc: CT 12786-017
 /Prt: 19-May-2006

E



12786017

Vol. 12786 Fol. 17

Appln. Nos. 195 and 641

Prior Title Vol. 3106 Fol. 242



Edition issued 13-5-1975.

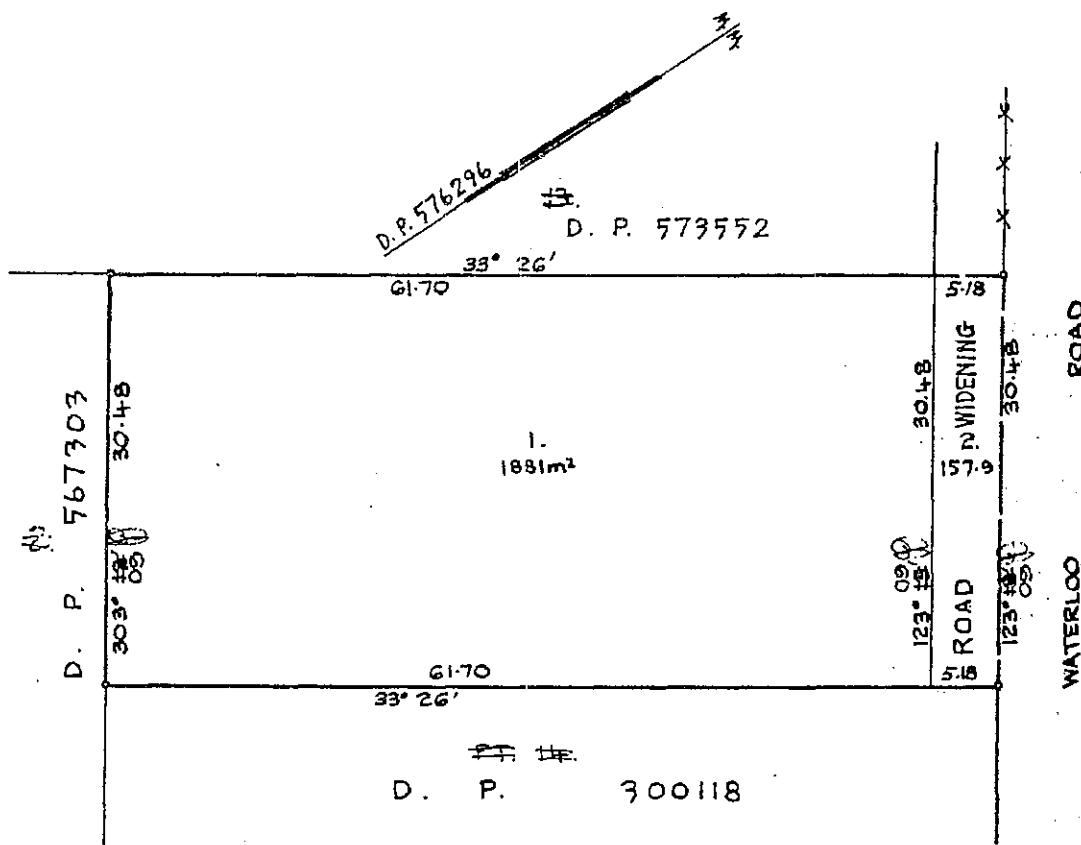
I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

Lawson
 Registrar General.



PLAN SHOWING LOCATION OF LAND

LENGTHS ARE IN METRES

CANCELLEDESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 1 in Deposited Plan 576296 at North Ryde in the Municipality of Ryde Parish of Hunters Hill and County of Cumberland being part of Portion 139 granted to William Kerr Junior on 17-4-1803.

FIRST SCHEDULE

~~WILLIAM GALL of Eastwood, JAMES GALL of North Ryde, Builders Foremen and GORDON GALL of North Ryde, Supervisor, Joint Tenants.~~

SECOND SCHEDULE

1. Reservations and conditions, if any, contained in the Crown Grant above referred to.
2. Caveat No. K244857 by the Registrar General entered 21-2-1966. Withdrawn P226785

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED.

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(Page 1) Vol. 12786 Fol. 17

FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR		INSTRUMENT		ENTERED	Signature of Registrar General
NATURE	NUMBER	NATURE	DATE		
James Galt, Builders Foreman and Gordon Galt, Superintendant of North Ryde and		Transfer	14-16-1916		
transfers in common in equal shares		Transfer	1-8-1915		
Patent (Australia) Pty. Limited		Transfer	23-3-1919		
Local Government Superannuation Board					

NEW CERTIFICATES OF TITLE ISSUED ON 1915 9 23 27
NO DEALING TO BE REGISTERED WITHOUT REFERENCE TO
SURVEY DEPARTING BRANCH

SECOND SCHEDULE (continued)

INSTRUMENT		ENTERED	Signature of Registrar General	CANCELLATION
NATURE	NUMBER			
CHURCH	97744	8-1-1977	Withdrawn	R135484
This deed is cancelled as to the whole New Certificates of Title have issued on 2-6-6 = 1479 for lots in Deceased Plan No. 602-327 as follows:- Lots 20 221 Vol 13892 Fol 111-11 respectively.				
REGISTRAR GENERAL				

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

P35
0997107
R135484
SR
DP 602327
11/6/59



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Search results

Your search for: **LGA - RYDE**

Notice type - S 91 Clean-Up Notice

matched

No records match your query.

22 June 2006



Appendix B

B1.0 INTRODUCTION

The following sections describe components of the Quality Assurance and Quality Control (QA/QC) Plan for the Stage II Environmental Site Assessment (ESA) of 396 Lane Cove Road and 1 Giffnock Avenue, Macquarie Park, NSW, which complement the measures described in the report. An evaluation of the conformance of the results of the investigation against predetermined data quality objectives (DQOs) is also included.

B2.0 QUALITY CONTROL PLAN

B2.1 Sampling Objectives

The objectives of the sampling program were to:

- Evaluate the concentrations of contaminants within soil and groundwater at the site;
- Establish acceptable reporting limits for all analytes so that an appropriate assessment of potential risk can be made related to continued commercial/industrial land use; and
- Confirm that laboratory analytical procedures were in accordance with relevant guidelines.

The data collected during the investigation were used to:

- Evaluate the existence of soil and/or groundwater impact;
- Evaluate the waste classification of soil material at the site; and
- Assess the Site's suitability for continued commercial/industrial land use.

B2.2 Field Data Quality Objectives

The following field methods and quality control measures were defined for the Stage II ESA to achieve results of sufficient quality to be used in an assessment of the environmental condition of soil and groundwater at the site:

Item	Comments
Field Staff	Appropriately qualified and experienced staff to undertake field investigation works
Soil Sample Locations	Completion of 20 exploratory soil boreholes to approximately 3.0 m depth or prior refusal on bedrock. Sample locations were based on a combination of site coverage and targeting identified potential contamination sources. Due to site observations indicating the presence of an underground storage tank (UST) of petroleum spirit, and presence of probable asbestos containing material, four additional sample locations were completed.
Soil Sampling Methodology	Soil boreholes to be completed by: • Stainless steel hand auger (where drill rig access is not possible) • Truck-mounted drill rig using continuous push-tube sampling capability • Truck mounted drill rig equipped with solid flight augers, using SPT equipment to collect samples, for boreholes to be converted to monitoring wells. Soil samples were generally collected from the boreholes via the methodologies specified above. Exceptions included collection of samples directly from the auger flights where the presence of ironstone gravels negated SPT and/or Push-tube sample collection. The recovery column on the borelogs (refer Appendix D) depict the sample collection methodology, with relatively undisturbed samples (ie: SPT and/or Push-tubes) denoted as an "X" and auger samples denoted as a schematic auger symbol and/or a "hand". Surface grab samples were collected by stainless steel hand trowel.
Soil Sampling Depths	Samples will be collected at the surface (0.0-0.2 m), from 0.5 m and 1 m and 1 m intervals thereafter and at changes in lithology to the full depth of borehole at each borehole location.
Sample Collection, Handling and Preservation	Soil and groundwater samples will be collected in the sample jars and bottles supplied by the selected analytical laboratory. The filled jars and bottles will be stored on ice in a chilled, insulated container until received by the analysing laboratory. Sample numbers, dates, preservation and analytical requirements will be recorded on Chain of Custody (COC) documentation, which will also be delivered to the analytical laboratories.
Field Duplicate Samples	Duplicate soil and groundwater samples will be collected in the field at a rate of one in every 10 primary samples and will be analysed at a minimum rate of 1 per 20 primary samples. Duplicated samples will be labelled so as to conceal their relationship from the laboratory.
Inter-laboratory Duplicate Soil Samples	Inter-laboratory duplicate soil sample to be submitted to the secondary laboratory for analysis will be collected at a rate of 1 per 20 primary samples.
Monitoring Well Installation	Four groundwater monitoring wells to be installed in the vicinity of identified potential contamination sources and to provide site coverage. The monitoring wells are to be constructed of 50mm internal diameter, Class 18 uPVC factory slotted (0.4mm) and blank casing (riser) with flush threaded joiners. Monitoring wells to be developed after installation to promote connectivity with the aquifer and to be purged prior to the collection of groundwater samples.
Decontamination	Cleaning of soil sampling (eg: lead auger and SPT equipment) and groundwater

	(eg: interface meter probe heads) equipment prior to the use of the equipment and between sampling. The equipment will be washed in a phosphate-free detergent solution and rinsed in clean water. The effectiveness of decontamination procedures will be evaluated by the collection and analysis of a rinsate blank sample from sampling equipment.
Rinsate Blanks	One rinsate blank sample (from the soil sampling equipment) was collected by running distilled and/or bottled mineral water over the relevant section of the equipment and decanting directly into the laboratory prepared and supplied sample bottles. The rinsate was taken from the final rinse of the equipment after decontamination.
Calibration	On-site screening of samples for volatile organic compounds (VOCs) in the field will be undertaken using a portable photoionisation detector (PID) equipped with a 10.6 eV lamp. Groundwater physio-chemical parameters to be measured using a calibrated water quality meter (WQM). The PID will be calibrated at least once daily (at the start of each sampling day) with 100 ppm isobutylene. Calibration details are provided in this appendix.

B2.3 Adopted Field Procedures

B2.3.1 Field Staff

All fieldwork was undertaken by experienced HLA Environmental Scientists (Ben Pearce, approximately 3 years experience)

In addition, fieldworks were completed in accordance with Field Briefs prepared by Alex Latham, Senior Environmental Scientist (approximately 12 years experience).

B2.3.2 Soil Sample Locations, Sample Depths & Sampling Methodology

Soil boreholes were completed during the field program, as follows:

- **29 May 2006 and 30 May 2006:** BH01 to BH17 and HA01 to HA05. Surface samples MS01 and SS01 were also collected. HLA fieldwork completed by Ben Pearce. Soil boreholes completed by hand auger, push-tube sampling and solid flight auger drilling;

Samples obtained from the soil boreholes were collected from regular depth intervals to the full depth of the boreholes, and at stratigraphy changes. Soil samples were obtained by push tube equipment, which is indicated on the borehole logs as an "X" in the 'Recovery' column (refer Appendix D).

A sub-sample was obtained from each sampling interval and placed into a snap-lock plastic bag for field screening for the presence of volatile organic compounds (VOCs) using a calibrated photoionisation detector (PID).

B2.3.3 Groundwater Monitoring Well Installation

The groundwater monitoring wells (MW01 to MW04) were installed after reaming of the push-tube boreholes (BH01, BH11, BH14 and BH16 respectively) with solid flight augers to refusal. After reaming of

the borehole, 50mm internal diameter, Class 18 uPVC (factory slotted (0.4mm) and blank casing (riser) with flush threaded joiners) monitoring wells were installed (MW01 to MW04), which entailed:

- Measurement and cutting of screen and riser to accommodate the depth of the borehole. Note that saturated soil stratum, indicative of groundwater, were not encountered during completion of soil boreholes BH01, BH11, BH14 and BH16, however, monitor wells were installed to assess if low yielding, shallow groundwater subsequently accumulated;
- The base of each well was sealed by a PVC plug;
- Suspension of the monitoring well within the reamed auger holes, followed by pouring filter pack (2-3 mm graded sand) around the outside of the well to approximately 0.5m above the level of the screen. Bentonite pellets were then placed above the filter pack to form a sanitary seal, which extended for a minimum height of 0.5m. The top of the well was capped with an expandable locking cap; and
- Groundwater had not accumulated at the completion of drilling activities, and as such, the wells were not developed.

B2.3.4 Groundwater Sample Collection

Groundwater sampling was undertaken on 5 June 2006 (ie: approximately one week after installation). All monitoring wells were gauged using an electronic depth to water probe to assess for the presence of groundwater. Groundwater was not detected.

B2.3.5 Sample Handling and Preservation

Soil samples were collected using a new pair of disposable nitrile sampling gloves placed into laboratory supplied, acid washed and solvent rinsed glass jars with screw top Teflon-lined lids. The jars were filled so that no headspace remained (where practicable), labelled (on the lid and side of jar) with the sample identification (borehole number and depth), project number and date of collection. Groundwater sample collection is discussed above in Section B2.3.4.

The jars were stored on ice in a chilled, insulated container until received by the analysing laboratory. Sample numbers, depths, preservation and analytical requirements were recorded on Chain of Custody (COC) documentation, which was delivered to the analytical laboratory with the samples.

B2.3.6 Field Duplicate & Triplicate (Inter-laboratory duplicate) Samples

The purpose of duplicate samples was to estimate the variability of a given characteristic or contaminant associated with a population. Duplicate soil samples were collected in the field at a rate of at least one in ten primary samples. The duplicated soil samples were obtained from similar soils of an identical depth and close proximity to the primary sample.

Triplicate (or inter-laboratory duplicate) samples were obtained at a rate of at least 1 in 20 primary samples and are analysed by a secondary laboratory. The inter-laboratory duplicate samples are analysed to assess the accuracy and precision of the primary laboratory data.

Approximately equal portions of the primary sample were placed in the duplicate sample jars. All duplicated samples were labelled so as to conceal their relationship to the primary sample from the laboratory.

Duplicates are used to measure the precision of the sampling and analysis process (sampling, sample preparation, and analysis). Significant variation in duplicate results is often observed (particularly for solid matrix samples) due to sample heterogeneity or low reported concentrations near the practical quantitation limit (PQL).

The overall precision of field duplicates, laboratory split samples and laboratory duplicates is generally assessed by their Relative Percent Difference (RPD), given by:

$$RPD = \frac{|C1-C2|}{(C1+C2)/2} \times 100$$

where C1 is the primary sample concentration
C2 is the duplicate sample concentration

RPDs of field and laboratory duplicates have been compared to criteria detailed in the laboratory DQOs.

B2.3.7 Decontamination

The following decontamination procedures were utilised:

- SPT equipment and/or the push-tube sampling shoe was cleaned in phosphate free detergent solution ("Decon" 90) and rinsed in potable water prior to use and after collection of each soil sample;
- The stainless steel spatula was cleaned in phosphate free detergent solution ("Decon" 90) and rinsed in potable water prior to use and between each sample location;
- The lead-auger and cutting head (of the solid flight augers) was first brushed and then cleaned in phosphate free detergent solution ("Decon" 90) and rinsed in potable water prior to use and between each borehole location;
- Water Quality and Depth to water meter probe heads were cleaned in phosphate free detergent solution ("Decon" 90) and rinsed in potable water prior to use and between each monitor well location; and
- A new pair of disposable, nitrile sampling gloves were worn for the collection of each soil and groundwater sample.

The effectiveness of decontamination procedures was assessed by the analysis of a rinsate blank sample collected during field works. The rinsate sample (QW01) was collected from the flight of the hand auger after decontamination procedures were completed. Laboratory prepared deionised water was then poured over the flight and collected into the sample containers (metals, TPH, BTEX, PAH);

Metals, TPH, BTEX and PAH were not detected at concentrations above laboratory PQLs in the rinsate sample collected.

Based on the rinsate sample result, the adopted decontamination procedures are considered to be adequate.

B2.3.8 Calibration

Screening of soil samples for volatile organic compounds (VOCs) in the field was undertaken using a portable photoionisation detector (PID). The PID was calibrated by Enviroequip with isobutylene (97 ppm) prior to the start of field activities and by HLA during field activities.

Measurement of groundwater physio-chemical parameters, if present) would have been undertaken using a 90FLMV TPS Water Quality Meter (WQM). The WQM was calibrated by Enviroequip prior to use by HLA.

The PID and WQM calibration records are included within this Appendix.

B3.0 SAMPLE ANALYSIS RATIONALE

As stated in Section B2.2, 22 boreholes and two surface sample locations were completed at the site, on a combined site coverage (grid) and targeted basis (refer to Figure 2).

The site is approximately 1.6 hectares and the sampling density undertaken (24) generally meets the NSW EPA (1995) minimum requirements for site characterisation (25 locations). The sampling program completed to date is considered sufficient to evaluate site suitability for continued commercial/industrial land use.

Samples were classified as fill or natural soils. A total of 34 soil samples (excluding QA samples) were selected from the soil boreholes and surface samples for testing, based on field observations, the presence of fill, proximity to the identified potential contamination sources (eg: UST), field observations and PID screening results. Table 1, of the tables section of the main ESA report, presents a summary of the soil analyses undertaken.

For the purpose of this investigation, the analytical testing program was limited to potential contaminants of concern identified in Section 8, including:

- pH;
- Metals;
- PAH;
- TPH and BTEX;
- VHC;
- OCP, OPP and PCB; and
- Asbestos.

Samples not analysed were submitted to the laboratory for storage. Logs of the soil borings are provided in Appendix D.

B4.0 LABORATORY QUALITY OBJECTIVES

Listed below are the predetermined quality objectives defined for the assessment of the laboratory analytical data:

- All sample analyses to be conducted using National Association of Testing Authorities (NATA) registered methods in accordance with ANZECC (1996) and NEPM (1999) guidelines;
- Maximum acceptable sample holding time is 14 days for organic analyses and 6 months for metal analyses (except Mercury (Hg), which should be analysed within 28 days of sample collection);
- Samples to be appropriately preserved and handled;
- Laboratory method blank analyses required to be below the laboratories practical quantitation limits (PQL);
- Surrogate compound concentrations required to be spiked at similar concentration to sample results, at a rate of 1 in 20;
- All PQLs to be less than the assessment criteria;
- The relative percent difference (RPD) of duplicates will be determined and compared to the following criteria for acceptability. The acceptance criteria are based on both HLA's experience and the criteria listed in AS 4482.1 of 1997:
 - Field Duplicate Samples: < 50%;
 - Inter-laboratory duplicates (triplicates): < 50%;
 - Laboratory duplicates where the detection is less than 10 x the PQL: < 30%; and
 - Laboratory duplicates where the detection is greater than 10 x the PQL: < 20%.
- RPDs for Control Spike Duplicates were compared to an acceptable limit of 20% and undertaken at a minimum of 1 per batch.
- Percent recoveries of control spikes and matrix spikes were compared to an acceptable range of 70–130 %. Should this range be exceeded, reference to the laboratories internal DQO limits will be undertaken. Matrix pikes should be undertaken at a minimum of 1 per 20 samples, when the batch size exceeds 5 samples.

In HLA's experience, since samples to be analysed for volatiles cannot be homogenised, the RPD results obtained for duplicate and triplicate samples and repeat analyses will typically not provide an assessment of laboratory precision, but rather an indication of homogeneity of the distribution of the analyte within the sample. Any exceedences of the above acceptable limits were professionally assessed to determine the affect, if any on the overall usability or validity of the field sample data.

B4.1 Chemical Analysis

The primary laboratory used for sample analysis was LabMark Pty Ltd (LabMark) and the secondary laboratory was Australian Laboratory Services (ALS). Asbestos samples were analysed by ASET. All laboratories are NATA accredited for all analyses undertaken. The following table presents a summary of the analytical methods used by LabMark, ASET, and ALS and endorsed by NATA:

Analyte	Matrix	Reference Method*	Detection Limit (PQL)	Assessment Criteria
Metals (8)	Soil	USEPA SW846, 6010	0.05-5	>100
TPH C ₆ -C ₉	Soil	USEPA 5030A, 8260B	10	65
TPH C ₁₀ -C ₃₆	Soil	USEPA 8015A	50-100	1000
BTEX	Soil	USEPA 5030A, 8260B	0.2-1	1-14
PAH	Soil	USEPA 8270C	0.5	5-100
OCP, OPP	Soil	USEPA 8270B	0.05 – 0.2	>50
PCB	Soil	USEPA 8270B	0.5	50
VHC	Soil	USEPA 5030A	0.5-5	N/A
Asbestos	Soil	Polarised light microscopy with dispersion staining	Detect / not detect	N/A
TCLP Preparation	Soil		N/A	N/A
Metals (8)	Water	USEPA SW846, 6010	0.1-5	0.1-70
TPH C ₆ -C ₉	Water	USEPA 5030A, 8260B	20	7**
TPH C ₁₀ -C ₃₆	Water	USEPA 3510B, 8015A	250-200	7**
BTEX	Water	USEPA 5030A, 8260B	1-2	>5

Notes:

* denotes Laboratory methodology based on Reference Method

** denotes Assessment Criteria are low reliability, interim working levels only

(8) = As, Cd, Cr, Cu, Hg, Ni, Pb and Zn

Detection Limits & Assessment Criteria are mg/kg (soil) and ug/L (water)

N/A = not applicable

B4.2 Laboratory Blanks

Laboratory or control blanks consist of reagents specific to each individual analytical method and are prepared and analysed by laboratories in the same manner as regular samples. The preparation and analysis of laboratory blanks enables the measurement of contamination within the laboratory.

Laboratory blanks are typically analysed at a frequency of 1 in 20, with a minimum of one analysed per batch. Review of the Labmark and ALS reports indicated that this laboratory blank sample frequency was performed and that all results were below the PQL.

B4.3 Laboratory Duplicates

Laboratory duplicate samples are prepared in the laboratory by splitting a field sample and analysing it as two independent samples. The analysis of laboratory duplicate samples provides an indication of analytical precision and may be influenced by sample heterogeneity. The laboratory duplicate RPDs are used to assess laboratory precision. Laboratory duplicates are typically analysed at a frequency of 1 in 20, with a minimum of one analysed per batch (when the batch size exceeds 5 samples).

Review of this data indicates that 31 field samples were duplicated within the laboratories, representing 239 separate results. The RPD was calculated for each result and compared to the specified DQO. The RPD calculations indicated that two results exceeded the DQO, representing a non-conformance rate of 0.83 %. The non-conformance results were obtained from duplication of heterogeneous soil fill materials in which variation in contaminant distribution could be expected. HLA notes that the laboratory duplicate results that exceeded the DQO were at very low concentrations marginally above the laboratory PQLs, and were well below the assessment criteria and are considered acceptable for the purpose of this investigation.

B4.4 Laboratory Control Samples

Laboratory control samples (LCS) or Quality Control check samples are prepared within the laboratory by spiking an aliquot of an appropriate clean matrix reagent with known concentrations of specific analytes. The check sample is then analysed and the results are used to assess the laboratory performance on sample preparation and analysis procedure. Certified reference material may also be used to assess analytical accuracy independent of the investigations.

Accuracy is assessed by calculation of percent recovery (PR):

$$PR = X / T \times 100$$

Where: X is the measured analyte concentration
T is the "true" value

To evaluate percent recovery, the quality control limits that the laboratories have calculated are assessed following the procedures required by the USEPA. Ideally, all calculated recovery values should be within acceptance limits, which for the case of metals and phenoxy acetic acid herbicides consists of historical analyte recoveries as experienced by the laboratory. However, in the event that control limit outliers are reported, professional judgement is used to assess the extent to which such results may affect the overall useability of the data. LCSs are typically analysed at a frequency of 1 in 20, with a minimum of one analysed per analytical batch.

Review of the laboratory reports indicates that LCSs were analysed at the rate of 1 in 20, with a minimum of one per batch, and that the recovery rates were within the quality objectives.

The data is considered acceptable for the purpose of this investigation.

B4.5 Matrix Spikes

Matrix spikes are samples prepared within the laboratory by dividing a field sample into two aliquots, then spiking each with identical concentrations of the analytes. The matrix spike, and matrix spike duplicate, are then analysed separately and the results compared to determine the effects of the sample matrix on the accuracy and precision of the analytes. Accuracy is assessed by the calculation of the percent recovery (PR) for matrix spikes:

$$PR = \frac{(SSR - SR)}{SA} \times 100$$

Where: SSR is the spiked sample result
SR is the sample result
SA is the spike added

Note that when the sample concentration is less than the instrument detection level, then a value of SR = 0 is recommended.

Review of the laboratory reports indicates that matrix spike were analysed at the rate of 1 in 20, when the batch size exceeded 5 samples, and that the recovery rates were within the quality objectives.

The matrix spike results for are considered acceptable for the purpose of this investigation.

B4.6 Surrogates

Surrogates are compounds which are similar to the organic analytes of interest in chemical composition, extraction, and chromatography, but which are not normally found in field samples. Surrogates are generally spiked into all sample aliquots prior to preparation and analysis. Percent recoveries are calculated for each surrogate, providing an indication of analytical accuracy. US EPA methodology (SW – 846) requires that surrogate testing be performed whenever analysing by Gas Chromatography or HPLC.

In order to compare analytical accuracy, it is usually necessary to spike a range of surrogate compounds of different chemical properties into each sample aliquot.

USEPA Method 8000 (7) provides that the laboratory may calculate its own surrogate recovery limit should the EPA not specify a limit. In the absence of specified PR criteria for individual surrogates or laboratory calculated control limit, the general acceptance criteria for quality control measurements employed were taken from USEPA guidelines (5) which are summarised below:

< 10%	Unacceptable low recovery which may result in negative detections.
10% to 70%	Recoveries are sufficiently low that results provide only an estimate of analyte concentration.
70% to 130%	Acceptable recovery.
> 130%	Unacceptable high recovery which may result in false high detections.

Ideally, all calculated surrogate recovery values should be within acceptable limits. In the event that some recoveries lie outside the control limits, the USEPA guidance documents provide criteria for surrogate recovery results to assign a level of confidence in the results of actual sample analyses. USEPA protocols identify the need to test a minimum of three surrogates for each analytical group.

Review of the analytical laboratory reports indicates that all surrogate recovery rates were within the specified DQOs.

B5.0 DATA VALIDATION

The overall assessment of the quality of the data obtained during the investigation is discussed below in terms of the following data quality indicators.

B5.1 Chain of Custody Documentation

All samples collected in the field were forwarded to Labmark and ALS under chain of custody documentation. A copy of the chain of custody (received by the laboratory) is included with the laboratory reports.

B5.2 Sample Preservation

All samples collected in the field and requested for analysis were received by the laboratories in appropriate condition. This is noted by the laboratory on the Sample Receipt Notification (SRN) form. A copy of the SRN is included with each laboratory report.

B5.3 Sample Holding Times

A total of 41 samples (including: soil, material, field duplicates, interlaboratory duplicates and equipment rinsates) were analysed. All samples were analysed within the specified technical holding times (THT), with the following exceptions:

- All soil samples for pH, for which the THT is 6 hours. Samples were extracted between one and two days after the THT. The results are not considered to compromise data integrity.

B5.4 PQLs / Assessment Criteria

All laboratory PQLs were below DEC endorsed assessment criteria.

B5.5 Precision

Precision or variability of the data was assessed by determining RPDs between the original and duplicated field samples analysed. The RPD results are presented on the tables of results and summarised on the following table:

Primary Sample	Duplicate Sample	Compounds Analysed	RPD DQO	RPD	Sample Type
BH12_0.0-0.30	DUP02	Metals	50 %	< 50%. Ni = 67%	Fill
BH13_0.0-0.1	DUP03	Metals	50 %	< 50 %	Fill
		TPH	50 %	< 50 %	
		BTEX	50 %	< 50 %	
		PAH	50 %	< 50 %	
BH13_0.0-0.1	TRIP03*	Metals	50 %	< 50 %	Fill
		TPH	50 %	< 50 %	
		BTEX	50 %	< 50 %	
		PAH	50 %	< 50 %	
BH16_1.9-2.0	DUP04	Metals	50 %	< 50 %	Weathered Shale
		TPH	50 %	< 50 %. C6-C9 = 120%	
		BTEX	50 %	< 50 %. Toluene = 100% Ethylbenzene = 86%, Xylenes = 79%	
		PAH	50 %	< 50 %. Naphthalene (53%)	
BH16_2.9-3.0	TRIP02*	Metals	50 %	< 50 %	Weathered Shale
		TPH	50 %	< 50 %. C6-C9 – 140%	
		BTEX	50 %	< 50 %. Toluene = 52%, Ethylbenzene = 67 %, Xylenes = 71 %	
		PAH	50 %	< 50	

Notes: calculated RPDs are presented on the summary result tables

* denotes inter-laboratory duplicate (triplicate)

Results exceeding the RPD DQO are discussed below:

DUP02 & BH12_0.0-0.3: The elevated RPD for nickel is attributed to contaminant concentrations at or near the PQL (1 & 2 mg/kg), and therefore considered acceptable.

DUP04 & BH16_1.9-2.0: The elevated RPDs for TPH (C₆-C₉), toluene, ethylbenzene, xylenes and naphthalene is attributed to the volatile nature of the organic analytes and are considered acceptable.

TRIP02 & BH16_1.9-2.0: The elevated RPDs for TPH (C₆-C₉), toluene, ethylbenzene and xylenes is attributed to the volatile nature of the organic analytes and are considered acceptable.

HLA conclude that the precision of the data is sufficient for the purposes of the investigation.

B5.6 Accuracy

The laboratory QA/QC results indicated:

- All method blank samples were reported at less than laboratory PQLs;
- Laboratory PQLs were less than the assessment criteria, with the exceptions as previously discussed;
- Samples were extracted and analysed within acceptable holding times, with the exceptions as previously discussed; and
- Surrogate compound concentrations were similar to sample result concentrations.

The accuracy of the data obtained from the laboratory is considered to be sufficient for the purposes of the investigation.

B5.7 Representativeness

Representativeness expresses the degree to which sample data accurately and precisely represent a characteristic of parameter variations at sampling points or environmental conditions. Sample representativeness is controlled through selecting sampling locations that exemplify site conditions and obtaining suitable samples from these sites. Sampling rationale is discussed in the body of the report.

Analysis for the contaminants of concern was conducted on soil as indicated in analytical summary tables. Based on the sampling and analytical regime undertaken, the results obtained are considered to be sufficiently representative of the subsurface conditions at the site.

B5.8 Comparability

Comparability expresses the confidence with which one data set can be compared with another. In order to assess comparability, field sampling procedures, laboratory sample preparation procedures, analytical procedures, and reporting units must be known and similar to established protocols, as was the case during this investigation. Qualitatively, data subjected to strict QA/QC procedures will be deemed more reliable, and therefore more comparable, than other data.

This investigation was performed by appropriately trained environmental scientists, with adopted procedures in accordance with HLA's Protocols and as such the data collected is comparable. Furthermore, analyses conducted by the secondary laboratory provided similar results to the primary laboratory.

B5.9 Completeness

The completeness of data is defined as the percentage of analytical results that are considered valid. Valid chemical data are values that have been identified as acceptable or acceptable as qualified during the data validation process. The completeness is a comparison of the total number of samples accepted against the total number of samples, calculated as a percentage. The project goal for completeness is 90%. Completeness also includes checking that all entries in the database are correct, properly entered, and that any typographical errors in the database are corrected and the data are re-entered properly. Completeness is defined as:



$$\text{Completeness} = \frac{\text{number of acceptable items}}{\text{total number of items}} \times 100$$

All samples collected and analysed complied with the predetermined DQOs as such the data obtained is considered to be 95 % quantitative and complete.

B5.10 Overall Assessment

Based on an assessment of field and laboratory QA/QC data, the reported analytical results are considered to be valid and representative of concentrations of the analysed compounds at the sample locations tested.



Appendix C



AUSTRALIAN SAFER ENVIRONMENT & TECHNOLOGY PTY LTD

ABN 36 088 095 112

Our ref : ASET 8783/ 11917 / 1 - 3

Your ref: E026815

NATA Accreditation No: 14484

7 June 2006

LABMARK
P O Box 641,
Hornsby NSW 1630

Attn:Mr David Burns

Dear David,

Asbestos Identification

This report presents the results of three samples, forwarded by LABMARK on 5 June 2006, for analysis for asbestos.

1.Introduction:Three samples forwarded were examined and analysed for the presence of asbestos.

2. Methods : The samples were examined under a Stereo Microscope and selected fibres were analysed by Polarized Light Microscopy in conjunction with Dispersion Staining method (**Safer Environment Method 1.**)

3. Results : **Sample No. 1. ASET 8783 / 11917 / 1. E026815 - 26104 - HA02 - 0.5 - 0.6.**
Approx dimensions 5.0 cm x 4.0 cm x 2.0 cm
The sample consisted of a mixture of sandy soil, stones, plant matter and fragments of bitumen.
No asbestos detected.

Sample No. 2. ASET 8783 / 11917 / 2. E026815 - 26149 - SS01.
Approx dimensions 14.0 cm x 5.0 cm x 3.5 cm
The sample consisted of a mixture of clayish sandy soil, stones, plant matter, fragments of plaster and brick.
Chrysotile asbestos and Amosite asbestos detected.

Sample No. 3. ASET 8783 / 11917 / 3. E026815 - 26150 - MS01.
Approx dimensions 8.0 cm x 6.0 cm x 0.5 cm
The sample consisted of a fragment of a fibro plaster cement material.
Chrysotile asbestos detected.

Analysed and reported by,

Mahen De Silva . BSc. MSc. Grad Dip (Occ Hyg)
Occupational Hygienist / Approved Signatory.



UNIT 7 LEVEL 2, 1 LEONARD STREET, HORNSBY NSW 2077 – P.O. BOX 1644 HORNSBY NORTHGATE NSW 1635

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No. 13542.

AQISAUSTRALIAN QUARANTINE
AND INSPECTION SERVICE

SYDNEY License No. N0356.

Accredited for compliance with ISO/IEC 17025. The results of tests, calibrations and/or measurements included in this document are traceable to Australian/national standards. NATA is a signatory to the APLAC mutual recognition arrangement for the mutual recognition of the equivalence of testing, calibration and inspection reports.

Quarantine Approved premises criteria 5.1 for quarantine containment level 1 (QCI) facilities. Class five criteria cover premises utilised for research, analysis and/or testing of biological material, soil, animal, plant and human products.

CUSTOMER CENTRIC - ANALYTICAL CHEMISTS**FINAL CERTIFICATE OF ANALYSIS - ENVIRONMENTAL DIVISION**

Laboratory Report No: E026815
Client Name: HLA - Envirosiences Pty Limited
Client Reference: MM Group North Ryde
Contact Name: Ben Pearce
Chain of Custody No: na
Sample Matrix: OTHER & SOIL & WATER

Cover Page 1 of 4
 plus Sample Results

Date Received: 31/05/2006
 Date Reported: 09/06/2006

This Final Certificate of Analysis consists of sample results, DQI's, method descriptions, laboratory definitions, and internationally recognised NATA accreditation and endorsement. The DQO compliance relates specifically to QA/QC results as performed as part of the sample analysis, and may provide an indication of sample result quality. Transfer of report ownership from Labmark to the client shall only occur once full & final payment has been settled and verified. All report copies may be retracted where full payment has not occurred within the agreed settlement period.

QUALITY ASSURANCE CRITERIA

Accuracy: matrix spike: 1 in first 5-20, then 1 every 20 samples
 lcs, crm, method: 1 per analytical batch
 surrogate spike: addition per target organic method

Precision: laboratory duplicate: 1 in first 5-10, then 1 every 10 samples

laboratory triplicate: re-extracted & reported when duplicate RPD values exceed acceptance criteria

Holding Times: soils, waters: Refer to LabMark Preservation & THT table
 VOC's 14 days water / soil
 VAC's 7 days water or 14 days acidified
 VAC's 14 days soil
 SVOC's 7 days water, 14 days soil
 Pesticides 7 days water, 14 days soil
 Metals 6 months general elements
 Mercury 28 days

Confirmation: target organic analysis: GC/MS, or confirmatory column

Sensitivity: EQL: Typically 2-5 x Method Detection Limit (MDL)

QUALITY CONTROL**GLOBAL ACCEPTANCE CRITERIA (GAC)**

Accuracy: spike, lcs, crm general analytes 70% - 130% recovery
 surrogate: phenol analytes 50% - 130% recovery
 organophosphorous pesticide analytes 60% - 130% recovery
 phenoxy acid herbicides 50% - 130% recovery

anion/cation bal: +/- 10% (0-3 meq/l),
 +/- 5% (>3 meq/l)

Precision: method blank: not detected >95% of the reported EQL
 duplicate lab 0-30% (>10xEQL), 0-75% (5-10xEQL)
 RPD (metals): 0-100% (<5xEQL)
 duplicate lab 0-50% (>10xEQL), 0-75% (5-10xEQL)
 RPD: 0-100% (<5xEQL)

QUALITY CONTROL**ANALYTE SPECIFIC ACCEPTANCE CRITERIA (ASAC)**

Accuracy: spike, lcs, crm analyte specific recovery data
 surrogate: <3xsd of historical mean

Uncertainty: spike, lcs: measurement calculated from historical analyte specific control charts

RESULT ANNOTATION

DQO: Data Quality Objective
 DQI: Data Quality Indicator
 EQL: Estimated Quantitation Limit
 --: not applicable

s: matrix spike recovery
 d: laboratory duplicate
 t: laboratory triplicate
 r: RPD relative % difference

p: pending
 lcs: laboratory control sample
 crm: certified reference material
 mb: method blank

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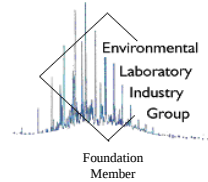
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 * Telephone: (02) 9476 6533 * Fax: (02) 9476 8219

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Form QS0144, Rev. 0 : Date Issued 10/03/05



CUSTOMER CENTRIC - ANALYTICAL CHEMISTS



Laboratory Report: E026815

Cover Page 2 of 4

NEPC GUIDELINE COMPLIANCE - DQO

1. GENERAL

- A. Results relate specifically to samples as received. Sample results are not corrected for matrix spike, lcs, or surrogate recovery data.
- B. EQL's are matrix dependant and may be increased due to sample dilution or matrix interference.
- C. Laboratory QA/QC samples are specific to this project.
- D. Inter-laboratory proficiency results are available upon request. NATA accreditation details available at www.nata.asn.au.
- E. VOC spikes & surrogates added to samples during extraction, SVOC spikes & surrogates added prior to extraction.
- F. Recovery data outside GAC limits shall be investigated and compared to ASAC (historical mean +/- 3sd). If recovery data <20%, then the relevant results for that compound are considered not reliable.
- G. Recovery data (ms, surrogate, crm, lcs) outside ASAC limits shall initiate an investigative action. Anomolous QC data is examined in conjunction with other QC samples and a final decision whether to accept or reject results is provided by the professional judgement of the senior analyst. The USEPA-CLP National Functional Guidelines are referred to for specific recommendations.
- H. Extraction (preparation) date refers to the date that sample preparation was initiated. Note that certain methods not requiring sample preparation (eg. VOCs in water, etc) may report a common extraction and analysis date.
- I. LabMark shall maintain an official copy of this Certificate of Analysis for all traceable reference purposes.

2. CHAIN OF CUSTODY (COC) & SAMPLE RECEIPT NOTICE (SRN) REQUIREMENTS

- A. SRN issued to client upon sample receipt & login verification.
- B. Preservation & sampling date details specified on COC and SRN, unless noted.
- C. Sample Integrity & Validated Time of Sample Receipt (VTSR) Holding Times verified (preservation may extend holding time, refer to preservation chart).

3. NATA ACCREDITED METHODS

- A. NATA accreditation held for each in-house method and sample matrix type reported, unless noted below (Refer to subcontracted test reports for NATA accreditation status).
- B. NATA accredited in-house laboratory methods are referenced from NEPC, ASTM, modified USEPA / APHA documents. Corporate Accreditation No. 13542.
- C. Subcontracted analyses: Refer to Sample Receipt Notice and additional DQO comments.
Reported by Aust. Safer Env & Tech., NATA accreditation No. 14484

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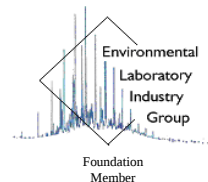
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Laboratory Report: E026815

Cover Page 3 of 4

4. QA/QC FREQUENCY COMPLIANCE TABLE SPECIFIC TO THIS REPORT

Matrix: **SOIL**

Page:	Method:	Totals:	#d	%d-ratio	#t	#s	%s-ratio
1	BTEX by P&T	17	2	12%	0	1	6%
1	Volatile TPH by P&T (vTPH)	17	2	12%	0	1	6%
4	Petroleum Hydrocarbons (TPH)	17	2	12%	0	1	6%
9	Polyaromatic Hydrocarbons (PAH)	15	2	13%	0	1	7%
13	Volatile Halogenated Compounds (VHC)	2	0	0%	0	0	0%
15	Organochlorine Pesticides (OC)	9	1	11%	0	1	11%
17	Organophosphorus Pesticides	8	1	13%	0	1	13%
19	Polychlorinated Biphenyls (PCB)	10	1	10%	0	1	10%
22	Acid extractable metals (M7)	36	4	11%	0	2	6%
27	Acid extractable mercury	36	4	11%	0	2	6%
33	pH in soil	7	1	14%	0	0	0%
34	Moisture	39	--	--	--	--	--

Matrix: **SOIL-LEACHATE**

Page:	Method:	Totals:	#d	%d-ratio	#t	#s	%s-ratio
21	TCLP Preparation	4	0	0%	0	0	0%
32	TCLP metals	4	0	0%	0	0	0%

Matrix: **WATER**

Page:	Method:	Totals:	#d	%d-ratio	#t	#s	%s-ratio
7	BTEX by P&T	1	0	0%	0	0	0%
7	Volatile TPH by P&T (vTPH)	1	0	0%	0	0	0%
8	Petroleum Hydrocarbons (TPH)	1	0	0%	0	0	0%
12	Polyaromatic Hydrocarbons (PAH)	1	0	0%	0	0	0%
30	Filtered metals (M7)	1	0	0%	0	0	0%
31	Filtered mercury	1	0	0%	0	0	0%

GLOSSARY:

#d	number of discrete duplicate extractions/analyses performed.
%d-ratio	NEPC guideline for laboratory duplicates is 1 in 10 samples (min 10%).
#t	number of triplicate extractions/analyses performed.
#s	number of spiked samples analysed.
%s-ratio	USEPA guideline for laboratory matrix spikes is 1 in 20 samples (min 5%).

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LabMark PTY LTD ABN 27 079 798 397

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* MELBOURNE: 116 Moray Street, South Melbourne VIC 3205

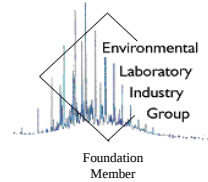
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Form QS0144, Rev. 0 : Date Issued 10/03/05



CUSTOMER CENTRIC - ANALYTICAL CHEMISTS



Laboratory Report: E026815

Cover Page 4 of 4

5. ADDITIONAL COMMENTS SPECIFIC TO THIS REPORT

- A. All tests were conducted by LabMark Environmental Sydney, NATA accreditation No. 13542, Corporate Site No. 13535.
- B. Asbestos analysis performed by ASET, refer to report attached.

Laboratory QA/QC data shall relate specifically to this report, and may provide an indication of site specific sample result quality. LabMark **DOES NOT** report **NON-RELEVANT BATCH QA/QC** data. Acceptance of this self assessment certificate does not preclude any requirement for a QA/QC review by a accredited contaminated site EPA auditor, when and wherever necessary. Laboratory QA/QC self assessment references available upon request.

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Laboratory Report No: E026815
Client Name: HLA - Envirosciences Pty Limited
Contact Name: Ben Pearce
Client Reference: MM Group North Ryde S4062801

Page: 1 of 36
plus cover page
Date: 09/06/06

Final
Certificate
of Analysis



This report supercedes reports issued on: 07/06/06

Laboratory Identification			26075	26085	26088	26089	26091	26092	26096	26101	26104	26124
Sample Identification			BH04	BH06	BH06	BH07	BH08	BH08	BH09	HA01	HA02	BH13
Depth (m)			0.05-0.15	0.05-0.15	1.0-1.1	0.15-0.3	0.16-0.25	0.6-0.8	0.17-0.3	0.5-0.6	0.5-0.6	0.0-0.1
Sampling Date recorded on COC			29/5/06	29/5/06	29/5/06	29/5/06	29/5/06	29/5/06	29/5/06	29/5/06	29/5/06	30/5/06
Laboratory Extraction (Preparation) Date			1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06
Laboratory Analysis Date			2/6/06	2/6/06	2/6/06	2/6/06	5/6/06	2/6/06	5/6/06	2/6/06	2/6/06	2/6/06
Method	BTEX by P&T	EQL										
E002.2	Benzene	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Toluene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	meta- and para-Xylene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	ortho-Xylene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Total Xylene	--	--	--	--	--	--	--	--	--	--	--
	CDFB (Surr @ 10mg/kg)	--	96%	96%	100%	93%	72%	93%	82%	98%	102%	97%
Method	Volatile TPH by P&T (vTPH)	EQL										
E003.2	C6 - C9 Fraction	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E002.2: 8-10g soil extracted with 20ml methanol. Analysis by P&T/GC/PID/MSD.

E003.2: 8-10g soil extracted with 20ml methanol. Analysis by P&T/GC/FID.



Laboratory Report No: E026815
Client Name: HLA - Envirosciences Pty Limited
Contact Name: Ben Pearce
Client Reference: MM Group North Ryde S4062801

Page: 2 of 36
plus cover page
Date: 09/06/06

Final
Certificate
of Analysis



This report supercedes reports issued on: 07/06/06

Laboratory Identification			26126	26132	26136	26137	26138	26139	26145	26101d	26101r	26124d
Sample Identification			BH14	BH15	BH16	BH16	BH16	BH17	DUP04	QC	QC	QC
Depth (m)			0.05-0.25	0.15-0.35	0.6-0.8	1.9-2.0	2.9-3.0	0.17-0.3	--	--	--	--
Sampling Date recorded on COC			30/5/06	30/5/06	30/5/06	30/5/06	30/5/06	30/5/06	30/5/06	--	--	--
Laboratory Extraction (Preparation) Date			1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	--	1/6/06
Laboratory Analysis Date			2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	--	2/6/06
Method	BTEX by P&T	EQL										
E002.2	Benzene	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.3	<0.2	--	<0.2
	Toluene	0.5	<0.5	<0.5	<0.5	1	<0.5	<0.5	3.0	<0.5	--	<0.5
	Ethylbenzene	0.5	<0.5	<0.5	<0.5	1.4	<0.5	<0.5	3.5	<0.5	--	<0.5
	meta- and para-Xylene	1	<1	<1	<1	7	<1	<1	16	<1	--	<1
	ortho-Xylene	0.5	<0.5	<0.5	<0.5	2.8	<0.5	<0.5	6.6	<0.5	--	<0.5
	Total Xylene	--	--	--	--	9.8	--	--	22.6	--	--	--
	CDFB (Surr @ 10mg/kg)	--	97%	98%	91%	94%	105%	98%	96%	95%	3%	96%
Method	Volatile TPH by P&T (vTPH)	EQL										
E003.2	C6 - C9 Fraction	10	<10	<10	<10	10	<10	<10	40	<10	--	<10

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E002.2: 8-10g soil extracted with 20ml methanol. Analysis by P&T/GC/PID/MSD.

E003.2: 8-10g soil extracted with 20ml methanol. Analysis by P&T/GC/FID.



Laboratory Report No: E026815
Client Name: HLA - Envirosciences Pty Limited
Contact Name: Ben Pearce
Client Reference MM Group North Ryde S4062801

Page: 3 of 36
plus cover page
Date: 09/06/06

Final
Certificate
of Analysis



This report supercedes reports issued on: 07/06/06

Laboratory Identification			26124r	26104s	lcs	mb					
Sample Identification			QC	QC	QC	QC					
Depth (m)			--	--	--	--					
Sampling Date recorded on COC			--	--	--	--					
Laboratory Extraction (Preparation) Date			--	1/6/06	1/6/06	1/6/06					
Laboratory Analysis Date			--	2/6/06	1/6/06	1/6/06					
Method	BTEX by P&T	EQL									
E002.2	Benzene	0.2	--	96%	107%	<0.2					
	Toluene	0.5	--	97%	113%	<0.5					
	Ethylbenzene	0.5	--	91%	111%	<0.5					
	meta- and para-Xylene	1	--	102%	123%	<1					
	ortho-Xylene	0.5	--	95%	116%	<0.5					
	Total Xylene	--	--	--	--	--					
	CDFB (Surr @ 10mg/kg)	--	1%	94%	100%	102%					
Method	Volatile TPH by P&T (vTPH)	EQL									
E003.2	C6 - C9 Fraction	10	--	86%	111%	<10					

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E002.2: 8-10g soil extracted with 20ml methanol. Analysis by P&T/GC/PID/MSD.

E003.2: 8-10g soil extracted with 20ml methanol. Analysis by P&T/GC/FID.



Laboratory Report No: E026815
Client Name: HLA - Envirosciences Pty Limited
Contact Name: Ben Pearce
Client Reference: MM Group North Ryde S4062801

Page: 4 of 36

plus cover page

Date: 09/06/06

This report supercedes reports issued on: 07/06/06

Final

Certificate

of Analysis



Laboratory Identification			26075	26085	26088	26089	26091	26092	26096	26101	26104	26124
Sample Identification			BH04	BH06	BH06	BH07	BH08	BH08	BH09	HA01	HA02	BH13
Depth (m)			0.05-0.15	0.05-0.15	1.0-1.1	0.15-0.3	0.16-0.25	0.6-0.8	0.17-0.3	0.5-0.6	0.5-0.6	0.0-0.1
Sampling Date recorded on COC			29/5/06	29/5/06	29/5/06	29/5/06	29/5/06	29/5/06	29/5/06	29/5/06	29/5/06	30/5/06
Laboratory Extraction (Preparation) Date			1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06
Laboratory Analysis Date			3/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06
Method	Petroleum Hydrocarbons (TPH)	EQL										
E006.2	C10 - C14 Fraction	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28 Fraction	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C29 - C36 Fraction	100	<100	160	<100	<100	<100	<100	<100	<100	<100	<100
	Sum of TPH C10 - C36	--	--	160	--	--	--	--	--	--	--	--

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E006.2: 8-10g soil extracted with 20ml DCM/Acetone (8:2). Analysis by GC/FID.



Laboratory Report No: E026815
Client Name: HLA - Envirosiences Pty Limited
Contact Name: Ben Pearce
Client Reference: MM Group North Ryde S4062801

Page: 5 of 36

plus cover page

Date: 09/06/06

This report supercedes reports issued on: 07/06/06

Final

Certificate

of Analysis



Laboratory Identification			26126	26132	26136	26137	26138	26139	26145	26101d	26101r	26124d
Sample Identification			BH14	BH15	BH16	BH16	BH16	BH17	DUP04	QC	QC	QC
Depth (m)			0.05-0.25	0.15-0.35	0.6-0.8	1.9-2.0	2.9-3.0	0.17-0.3	--	--	--	--
Sampling Date recorded on COC			30/5/06	30/5/06	30/5/06	30/5/06	30/5/06	30/5/06	30/5/06	--	--	--
Laboratory Extraction (Preparation) Date			1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	--	1/6/06
Laboratory Analysis Date			2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	--	2/6/06
Method	Petroleum Hydrocarbons (TPH)	EQL										
E006.2	C10 - C14 Fraction	50	<50	<50	<50	50	<50	<50	90	<50	--	<50
	C15 - C28 Fraction	100	<100	<100	<100	<100	<100	<100	<100	<100	--	<100
	C29 - C36 Fraction	100	<100	<100	<100	<100	<100	<100	<100	<100	--	<100
	Sum of TPH C10 - C36	--	--	--	--	50	--	--	90	--	--	--

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E006.2: 8-10g soil extracted with 20ml DCM/Acetone (8:2). Analysis by GC/FID.



Laboratory Report No: E026815
Client Name: HLA - Envirosciences Pty Limited
Contact Name: Ben Pearce
Client Reference MM Group North Ryde S4062801

Page: 6 of 36
plus cover page
Date: 09/06/06

Final
Certificate
of Analysis



This report supercedes reports issued on: 07/06/06

Laboratory Identification			26124r	26104s	lcs	mb					
Sample Identification			QC	QC	QC	QC					
Depth (m)			--	--	--	--					
Sampling Date recorded on COC			--	--	--	--					
Laboratory Extraction (Preparation) Date			--	1/6/06	1/6/06	1/6/06					
Laboratory Analysis Date			--	2/6/06	1/6/06	1/6/06					
Method	Petroleum Hydrocarbons (TPH)	EQL									
E006.2	C10 - C14 Fraction	50	--	84%	90%	<50					
	C15 - C28 Fraction	100	--	--	--	<100					
	C29 - C36 Fraction	100	--	--	--	<100					
	Sum of TPH C10 - C36	--	--	--	--	--					

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E006.2: 8-10g soil extracted with 20ml DCM/Acetone (8:2). Analysis by GC/FID.



Laboratory Report No: E026815
Client Name: HLA - Envirosciences Pty Limited
Contact Name: Ben Pearce
Client Reference MM Group North Ryde S4062801

Page: 7 of 36

plus cover page

Date: 09/06/06

This report supercedes reports issued on: 07/06/06

Final

Certificate
of Analysis



Laboratory Identification			26112	lcs	mb						
Sample Identification			QW01	QC	QC						
Depth (m)			--	--	--						
Sampling Date recorded on COC			29/5/06	--	--						
Laboratory Extraction (Preparation) Date			2/6/06	2/6/06	2/6/06						
Laboratory Analysis Date			3/6/06	2/6/06	2/6/06						
Method	BTEX by P&T	EQL									
E002.1	Benzene	1	<1	104%	<1						
	Toluene	1	<1	106%	<1						
	Ethylbenzene	1	<1	105%	<1						
	meta- & para-Xylene	2	<2	111%	<2						
	ortho-Xylene	1	<1	104%	<1						
	Total Xylene	--	--	--	--						
	4-BFB (Surr @ 100ug/l)	--	98%	100%	99%						
Method	Volatile TPH by P&T (vTPH)	EQL									
E003.1	C6-C9	50	<50	100%	<50						

Results expressed in ug/l unless otherwise specified

Comments:

E002.1: Direct injection into P&T/GC/PID/MSD.

E003.1: Direct injection into P&T/GC/FID.



Laboratory Report No: E026815
Client Name: HLA - Envirosciences Pty Limited
Contact Name: Ben Pearce
Client Reference MM Group North Ryde S4062801

Page: 8 of 36

plus cover page

Date: 09/06/06

This report supercedes reports issued on: 07/06/06

Final

Certificate

of Analysis



Laboratory Identification			26112	lcs	mb						
Sample Identification			QW01	QC	QC						
Depth (m)			--	--	--						
Sampling Date recorded on COC			29/5/06	--	--						
Laboratory Extraction (Preparation) Date			2/6/06	2/6/06	2/6/06						
Laboratory Analysis Date			5/6/06	3/6/06	3/6/06						
Method	Petroleum Hydrocarbons (TPH)	EQL									
E004.1	C10-C14 Fraction	50	<50	--	<50						
	C15-C28 Fraction	200	<200	93%	<200						
	C29-C36 Fraction	50	<50	--	<50						
	Sum of TPH C10 - C36	--	--	--	--						

Results expressed in ug/l unless otherwise specified

Comments:

E004.1: Triple extraction with DCM. Analysis by GC/FID.



Laboratory Report No: E026815
Client Name: HLA - Envirosiences Pty Limited
Contact Name: Ben Pearce
Client Reference MM Group North Ryde S4062801

Page: 9 of 36
plus cover page
Date: 09/06/06

Final
Certificate
of Analysis



This report supercedes reports issued on: 07/06/06

Laboratory Identification			26075	26085	26088	26101	26104	26113	26124	26126	26137	26138
Sample Identification			BH04	BH06	BH06	HA01	HA02	BH11	BH13	BH14	BH16	BH16
Depth (m)			0.05-0.15	0.05-0.15	1.0-1.1	0.5-0.6	0.5-0.6	0.05-0.15	0.0-0.1	0.05-0.25	1.9-2.0	2.9-3.0
Sampling Date recorded on COC			29/5/06	29/5/06	29/5/06	29/5/06	29/5/06	30/5/06	30/5/06	30/5/06	30/5/06	30/5/06
Laboratory Extraction (Preparation) Date			1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06
Laboratory Analysis Date			2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	6/6/06	2/6/06	2/6/06
Method	Polyaromatic Hydrocarbons (PAH)	EQL										
E007.2	Naphthalene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.1	<0.5
	Acenaphthylene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluorene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Pyrene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benz(a)anthracene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Chrysene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Benzo(a) pyrene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Dibenz(a,h)anthracene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(g,h,i)perylene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Sum of reported PAHs	--	--	--	--	--	--	--	--	--	1.1	--
	2-FBP (Surr @ 5mg/kg)	--	108%	109%	117%	120%	109%	110%	104%	105%	95%	98%
	TP-d14 (Surr @ 5mg/kg)	--	101%	102%	115%	119%	111%	109%	101%	94%	93%	99%

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E007.2: 8-10g soil extracted with 20ml DCM/acetone (8:2). Analysis by GC/MS.



Laboratory Report No: E026815
Client Name: HLA - Envirosciences Pty Limited
Contact Name: Ben Pearce
Client Reference: MM Group North Ryde S4062801

Page: 10 of 36
plus cover page
Date: 09/06/06

Final
Certificate
of Analysis



This report supercedes reports issued on: 07/06/06

Laboratory Identification			26139	26144	26145	26147	26148	26101d	26101r	26124d	26124r	26104s
Sample Identification			BH17	DUP03	DUP04	BIT01	BIT02	QC	QC	QC	QC	QC
Depth (m)			0.17-0.3	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC			30/5/06	30/5/06	30/5/06	30/5/06	30/5/06	--	--	--	--	--
Laboratory Extraction (Preparation) Date			1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	--	1/6/06	--	1/6/06
Laboratory Analysis Date			2/6/06	3/6/06	3/6/06	3/6/06	3/6/06	2/6/06	--	2/6/06	--	2/6/06
Method	Polyaromatic Hydrocarbons (PAH)	EQL										
E007.2	Naphthalene	0.5	<0.5	<0.5	1.9	<0.5	<0.5	<0.5	--	<0.5	--	101%
	Acenaphthylene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	102%
	Acenaphthene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	102%
	Fluorene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	101%
	Phenanthrene	0.5	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	--	<0.5	--	92%
	Anthracene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	93%
	Fluoranthene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	101%
	Pyrene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	99%
	Benz(a)anthracene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	99%
	Chrysene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	93%
	Benzo(b)&(k)fluoranthene	1	<1	<1	<1	<1	<1	<1	--	<1	--	95%
	Benzo(a) pyrene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	93%
	Indeno(1,2,3-c,d)pyrene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	89%
	Dibenz(a,h)anthracene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	95%
	Benzo(g,h,i)perylene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	96%
	Sum of reported PAHs	--	--	--	1.9	--	0.5	--	--	--	--	--
	2-FBP (Surr @ 5mg/kg)	--	116%	105%	101%	110%	91%	106%	12%	109%	5%	107%
	TP-d14 (Surr @ 5mg/kg)	--	113%	102%	97%	104%	88%	111%	7%	104%	3%	105%

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E007.2: 8-10g soil extracted with 20ml DCM/acetone (8:2). Analysis by GC/MS.



Laboratory Report No: E026815
Client Name: HLA - Envirosciences Pty Limited
Contact Name: Ben Pearce
Client Reference MM Group North Ryde S4062801

Page: 11 of 36
plus cover page
Date: 09/06/06

Final
Certificate
of Analysis



This report supercedes reports issued on: 07/06/06

Laboratory Identification			lcs	mb							
Sample Identification			QC	QC							
Depth (m)			--	--							
Sampling Date recorded on COC			--	--							
Laboratory Extraction (Preparation) Date			1/6/06	1/6/06							
Laboratory Analysis Date			1/6/06	1/6/06							
Method	Polyaromatic Hydrocarbons (PAH)	EQL									
E007.2	Naphthalene	0.5	98%	<0.5							
	Acenaphthylene	0.5	120%	<0.5							
	Acenaphthene	0.5	99%	<0.5							
	Fluorene	0.5	88%	<0.5							
	Phenanthrene	0.5	98%	<0.5							
	Anthracene	0.5	105%	<0.5							
	Fluoranthene	0.5	98%	<0.5							
	Pyrene	0.5	99%	<0.5							
	Benz(a)anthracene	0.5	96%	<0.5							
	Chrysene	0.5	97%	<0.5							
	Benzo(b)&(k)fluoranthene	1	88%	<1							
	Benzo(a) pyrene	0.5	86%	<0.5							
	Indeno(1,2,3-c,d)pyrene	0.5	96%	<0.5							
	Dibenz(a,h)anthracene	0.5	88%	<0.5							
	Benzo(g,h,i)perylene	0.5	93%	<0.5							
	Sum of reported PAHs	--	--	--							
	2-FBP (Surr @ 5mg/kg)	--	96%	99%							
	TP-d14 (Surr @ 5mg/kg)	--	103%	110%							

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E007.2: 8-10g soil extracted with 20ml DCM/acetone (8:2). Analysis by GC/MS.



Laboratory Report No: E026815
Client Name: HLA - Envirosciences Pty Limited
Contact Name: Ben Pearce
Client Reference MM Group North Ryde S4062801

Page: 12 of 36
plus cover page
Date: 09/06/06

Final
Certificate
of Analysis



This report supercedes reports issued on: 07/06/06

Laboratory Identification			26112	lcs	mb						
Sample Identification			QW01	QC	QC						
Depth (m)			--	--	--						
Sampling Date recorded on COC			29/5/06	--	--						
Laboratory Extraction (Preparation) Date			2/6/06	2/6/06	2/6/06						
Laboratory Analysis Date			3/6/06	3/6/06	3/6/06						
Method	Polyaromatic Hydrocarbons (PAH)	EQL									
E007.1	Naphthalene	1	<1	97%	<1						
	Acenaphthylene	1	<1	94%	<1						
	Acenaphthene	1	<1	92%	<1						
	Fluorene	1	<1	96%	<1						
	Phenanthrene	1	<1	99%	<1						
	Anthracene	1	<1	90%	<1						
	Fluoranthene	1	<1	100%	<1						
	Pyrene	1	<1	98%	<1						
	Benz(a)anthracene	1	<1	99%	<1						
	Chrysene	1	<1	83%	<1						
	Benzo(b)&(k)fluoranthene	2	<2	95%	<2						
	Benzo(a) pyrene	1	<1	97%	<1						
	Indeno(1,2,3-c,d)pyrene	1	<1	99%	<1						
	Dibenz(a,h)anthracene	1	<1	100%	<1						
	Benzo(g,h,i)perylene	1	<1	102%	<1						
	Sum of reported PAHs	--	--	--	--						
	2-FBP (Surr @ 250ug/l)	--	94%	99%	96%						
	TP-d14 (Surr @ 250ug/l)	--	112%	100%	108%						

Results expressed in ug/l unless otherwise specified

Comments:

E007.1: Triple extraction with DCM. Analysis by GC/MS.



Laboratory Report No: E026815
Client Name: HLA - Envirosciences Pty Limited
Contact Name: Ben Pearce
Client Reference MM Group North Ryde S4062801

Page: 13 of 36

plus cover page

Date: 09/06/06

This report supercedes reports issued on: 07/06/06

Final

Certificate

of Analysis



Laboratory Identification			26091	26096	lcs	mb						
Sample Identification			BH08	BH09	QC	QC						
Depth (m)			0.16-0.25	0.17-0.3	--	--						
Sampling Date recorded on COC			29/5/06	29/5/06	--	--						
Laboratory Extraction (Preparation) Date			1/6/06	1/6/06	1/6/06	1/6/06						
Laboratory Analysis Date			5/6/06	5/6/06	3/6/06	3/6/06						
Method	Volatil Halogenated Compounds (VHC)	EQL										
E010.2	Dichlorodifluoromethane	5	<5	<5	84%	<5						
	Chloromethane	5	<5	<5	95%	<5						
	Vinyl chloride	5	<5	<5	106%	<5						
	Bromomethane	5	<5	<5	99%	<5						
	Chloroethane	5	<5	<5	99%	<5						
	Trichlorofluoromethane	5	<5	<5	95%	<5						
	1,1-dichloroethene	0.5	<0.5	<0.5	124%	<0.5						
	trans-1,2-dichloroethene	0.5	<0.5	<0.5	126%	<0.5						
	1,1-dichloroethane	0.5	<0.5	<0.5	129%	<0.5						
	cis-1,2-dichloroethene	0.5	<0.5	<0.5	109%	<0.5						
	2,2-dichloropropane	0.5	<0.5	<0.5	105%	<0.5						
	Chloroform	0.5	<0.5	<0.5	116%	<0.5						
	1,1,1-trichloroethane	0.5	<0.5	<0.5	117%	<0.5						
	1,2-dichloroethane	0.5	<0.5	<0.5	121%	<0.5						
	1,1-dichloropropene	0.5	<0.5	<0.5	109%	<0.5						
	Carbon tetrachloride	0.5	<0.5	<0.5	118%	<0.5						
	Trichloroethene	0.5	<0.5	<0.5	110%	<0.5						
	1,2-dichloropropane	0.5	<0.5	<0.5	113%	<0.5						
	Dibromomethane	0.5	<0.5	<0.5	123%	<0.5						
	Bromodichloromethane	0.5	<0.5	<0.5	116%	<0.5						
	cis-1,3-dichloropropene	0.5	<0.5	<0.5	107%	<0.5						
	trans-1,3-dichloropropene	0.5	<0.5	<0.5	115%	<0.5						
	1,1,2-trichloroethane	0.5	<0.5	<0.5	113%	<0.5						
	1,3-dichloropropane	0.5	<0.5	<0.5	115%	<0.5						
	Chlorodibromomethane	0.5	<0.5	<0.5	123%	<0.5						
	Tetrachloroethene	0.5	<0.5	<0.5	121%	<0.5						
	1,2-dibromoethane	0.5	<0.5	<0.5	112%	<0.5						



Laboratory Report No: E026815
Client Name: HLA - Envirosciences Pty Limited
Contact Name: Ben Pearce
Client Reference MM Group North Ryde S4062801

Page: 14 of 36
plus cover page
Date: 09/06/06

Final
Certificate
of Analysis



This report supercedes reports issued on: 07/06/06

Laboratory Identification			26091	26096	lcs	mb						
Sample Identification			BH08	BH09	QC	QC						
Depth (m)			0.16-0.25	0.17-0.3	--	--						
Sampling Date recorded on COC			29/5/06	29/5/06	--	--						
Laboratory Extraction (Preparation) Date			1/6/06	1/6/06	1/6/06	1/6/06						
Laboratory Analysis Date			5/6/06	5/6/06	3/6/06	3/6/06						
Method	Volatil Halogenated Compounds (VHC)	EQL										
E010.2	Chlorobenzene	0.5	<0.5	<0.5	120%	<0.5						
	1,1,1,2-tetrachloroethane	0.5	<0.5	<0.5	123%	<0.5						
	Bromoform	0.5	<0.5	<0.5	127%	<0.5						
	1,1,2,2-tetrachloroethane	0.5	<0.5	<0.5	117%	<0.5						
	1,2,3-trichloropropane	0.5	<0.5	<0.5	112%	<0.5						
	1,3-dichlorobenzene	0.5	<0.5	<0.5	126%	<0.5						
	1,4-dichlorobenzene	0.5	<0.5	<0.5	119%	<0.5						
	1,2-dichlorobenzene	0.5	<0.5	<0.5	124%	<0.5						
	1,2-dibromo-3-chloropropane	0.5	<0.5	<0.5	112%	<0.5						
	Hexachlorobutadiene	0.5	<0.5	<0.5	109%	<0.5						
	CTFCB (Surr @ 20mg/kg)	--	71%	70%	127%	123%						
	BCP (Surr @ 20mg/kg)	--	112%	113%	119%	112%						
	DCFB (Surr @ 20mg/kg)	--	84%	85%	129%	116%						

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E010.2: 8-10g soil extracted with 20ml methanol. Analysis by P&T/GC/MS. (NB) Dichloromethane not reported unless requested.



Laboratory Report No: E026815
Client Name: HLA - Envirosciences Pty Limited
Contact Name: Ben Pearce
Client Reference: MM Group North Ryde S4062801

Page: 15 of 36
plus cover page
Date: 09/06/06

Final
Certificate
of Analysis



This report supercedes reports issued on: 07/06/06

Laboratory Identification			26075	26096	26101	26104	26108	26110	26120	26124	26144	26101d
Sample Identification			BH04	BH09	HA01	HA02	HA04	HA05	BH12	BH13	DUP03	QC
Depth (m)			0.05-0.15	0.17-0.3	0.5-0.6	0.5-0.6	0.0-0.1	0.0-0.1	0.0-0.3	0.0-0.1	--	--
Sampling Date recorded on COC			29/5/06	29/5/06	29/5/06	29/5/06	29/5/06	29/5/06	30/5/06	30/5/06	30/5/06	--
Laboratory Extraction (Preparation) Date			1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06
Laboratory Analysis Date			4/6/06	3/6/06	3/6/06	3/6/06	3/6/06	3/6/06	3/6/06	6/6/06	6/6/06	3/6/06
Method	Organochlorine Pesticides (OC)	EQL										
E013.2	a-BHC	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	~<0.5	~<0.5	<0.05
	HCB	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	~<0.5	~<0.5	<0.05
	b-BHC	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	~<0.5	~<0.5	<0.05
	g-BHC (Lindane)	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	~<0.5	~<0.5	<0.05
	d-BHC	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	~<0.5	~<0.5	<0.05
	Heptachlor	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	~<0.5	~<0.5	<0.05
	Aldrin	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	~<0.5	~<0.5	<0.05
	Heptachlor epoxide	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	~<0.5	~<0.5	<0.05
	trans-chlordane	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	~<0.5	~<0.5	<0.05
	Endosulfan I	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	~<0.5	~<0.5	<0.05
	cis-chlordane	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	~<0.5	~<0.5	<0.05
	Dieldrin	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	~<0.5	~<0.5	<0.05
	4,4-DDE	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	~<0.5	~<0.5	<0.05
	Endrin	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	~<0.5	~<0.5	<0.05
	Endosulfan II	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	~<0.5	~<0.5	<0.05
	4,4-DDD	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	~<0.5	~<0.5	<0.05
	Endosulfan sulphate	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	~<0.5	~<0.5	<0.05
	4,4-DDT	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	~<2	~<2	<0.2
	Methoxychlor	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	~<2	~<2	<0.2
	DBC (Surr @ 0.2mg/kg)	--	86%	90%	97%	75%	96%	80%	71%	89%	70%	79%

Results expressed in mg/kg dry weight unless otherwise specified

Comments: ~Sample dilution required, EQLs adjusted accordingly.

E013.2: 8-10g soil extracted with 20ml hexane/acetone (1:1). Analysis by GC/dual ECD.



Laboratory Report No: E026815
Client Name: HLA - Envirosiences Pty Limited
Contact Name: Ben Pearce
Client Reference MM Group North Ryde S4062801

Page: 16 of 36
 plus cover page
Date: 09/06/06

Final
Certificate
 of Analysis



This report supercedes reports issued on: 07/06/06

Laboratory Identification			26101r	26104s	lcs	mb					
Sample Identification			QC	QC	QC	QC					
Depth (m)			--	--	--	--					
Sampling Date recorded on COC			--	--	--	--					
Laboratory Extraction (Preparation) Date			--	1/6/06	1/6/06	1/6/06					
Laboratory Analysis Date			--	3/6/06	2/6/06	2/6/06					
Method	Organochlorine Pesticides (OC)	EQL									
E013.2	a-BHC	0.05	--	105%	98%	<0.05					
	HCB	0.05	--	116%	117%	<0.05					
	b-BHC	0.05	--	114%	114%	<0.05					
	g-BHC (Lindane)	0.05	--	104%	102%	<0.05					
	d-BHC	0.05	--	106%	106%	<0.05					
	Heptachlor	0.05	--	101%	101%	<0.05					
	Aldrin	0.05	--	98%	101%	<0.05					
	Heptachlor epoxide	0.05	--	124%	108%	<0.05					
	trans-chlordane	0.05	--	100%	108%	<0.05					
	Endosulfan I	0.05	--	103%	109%	<0.05					
	cis-chlordane	0.05	--	103%	110%	<0.05					
	Dieldrin	0.05	--	103%	110%	<0.05					
	4,4-DDE	0.05	--	107%	110%	<0.05					
	Endrin	0.05	--	104%	108%	<0.05					
	Endosulfan II	0.05	--	127%	111%	<0.05					
	4,4-DDD	0.05	--	105%	111%	<0.05					
	Endosulfan sulphate	0.05	--	97%	99%	<0.05					
	4,4-DDT	0.2	--	99%	92%	<0.2					
	Methoxychlor	0.2	--	105%	98%	<0.2					
	DBC (Surr @ 0.2mg/kg)	--	20%	74%	107%	125%					

Results expressed in mg/kg dry weight unless otherwise specified

Comments: ~Sample dilution required, EQLs adjusted accordingly.

E013.2: 8-10g soil extracted with 20ml hexane/acetone (1:1). Analysis by GC/dual ECD.



Laboratory Report No: E026815
Client Name: HLA - Envirosiences Pty Limited
Contact Name: Ben Pearce
Client Reference: MM Group North Ryde S4062801

Page: 17 of 36
plus cover page
Date: 09/06/06

Final
Certificate
of Analysis



This report supercedes reports issued on: 07/06/06

Laboratory Identification			26075	26101	26104	26108	26110	26120	26124	26144	26101d	26101r
Sample Identification			BH04	HA01	HA02	HA04	HA05	BH12	BH13	DUP03	QC	QC
Depth (m)			0.05-0.15	0.5-0.6	0.5-0.6	0.0-0.1	0.0-0.1	0.0-0.3	0.0-0.1	--	--	--
Sampling Date recorded on COC			29/5/06	29/5/06	29/5/06	29/5/06	29/5/06	30/5/06	30/5/06	30/5/06	--	--
Laboratory Extraction (Preparation) Date			1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	--
Laboratory Analysis Date			2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	--
Method	Organophosphorus Pesticides	EQL										
E014.2	Dichlorvos	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	Mevinphos (Phosdrin)	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	Demeton (total)	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--
	Ethoprop	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	Monocrotophos	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	Phorate	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	Dimethoate	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	Diazinon	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	Disulfoton	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	Methyl parathion	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	Ronnel	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	Fenitrothion	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	Malathion	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	Chlorpyrifos	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	Fenthion	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	Parathion	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	Stirofos	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	Prothiofos	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	Azinophos methyl	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	Coumaphos	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
	TPP (Surr @ 2mg/kg)	--	111%	74%	89%	93%	98%	88%	98%	70%	90%	20%

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E014.2: 8-10g soil extracted with 20ml hexane/acetone (1:1). Analysis by GC/FPD/MS.



Laboratory Report No: E026815
Client Name: HLA - Envirosciences Pty Limited
Contact Name: Ben Pearce
Client Reference MM Group North Ryde S4062801

Page: 18 of 36
plus cover page
Date: 09/06/06

Final
Certificate
of Analysis



This report supercedes reports issued on: 07/06/06

Laboratory Identification			26104s	lcs	mb						
Sample Identification			QC	QC	QC						
Depth (m)			--	--	--						
Sampling Date recorded on COC			--	--	--						
Laboratory Extraction (Preparation) Date			1/6/06	1/6/06	1/6/06						
Laboratory Analysis Date			2/6/06	7/6/06	1/6/06						
Method	Organophosphorus Pesticides	EQL									
E014.2	Dichlorvos	0.5	122%	107%	<0.5						
	Mevinphos (Phosdrin)	0.5	99%	103%	<0.5						
	Demeton (total)	1	110%	104%	<1						
	Ethoprop	0.5	103%	105%	<0.5						
	Monocrotophos	0.5	94%	70%	<0.5						
	Phorate	0.5	101%	106%	<0.5						
	Dimethoate	0.5	99%	100%	<0.5						
	Diazinon	0.5	96%	67%	<0.5						
	Disulfoton	0.5	99%	105%	<0.5						
	Methyl parathion	0.5	111%	105%	<0.5						
	Ronnel	0.5	97%	110%	<0.5						
	Fenitrothion	0.5	104%	112%	<0.5						
	Malathion	0.5	102%	102%	<0.5						
	Chlorpyrifos	0.5	98%	112%	<0.5						
	Fenthion	0.5	99%	112%	<0.5						
	Parathion	0.5	106%	107%	<0.5						
	Stirofos	0.5	93%	100%	<0.5						
	Prothiofos	0.5	103%	113%	<0.5						
	Azinophos methyl	0.5	102%	109%	<0.5						
	Coumaphos	0.5	113%	106%	<0.5						
	TPP (Surr @ 2mg/kg)	--	96%	103%	117%						

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E014.2: 8-10g soil extracted with 20ml hexane/acetone (1:1). Analysis by GC/FPD/MS.



Laboratory Report No: E026815
Client Name: HLA - Envirosiences Pty Limited
Contact Name: Ben Pearce
Client Reference: MM Group North Ryde S4062801

Page: 19 of 36
plus cover page
Date: 09/06/06

Final
Certificate
of Analysis



This report supercedes reports issued on: 07/06/06

Laboratory Identification			26075	26088	26096	26101	26104	26108	26110	26120	26124	26144
Sample Identification			BH04	BH06	BH09	HA01	HA02	HA04	HA05	BH12	BH13	DUP03
Depth (m)			0.05-0.15	1.0-1.1	0.17-0.3	0.5-0.6	0.5-0.6	0.0-0.1	0.0-0.1	0.0-0.3	0.0-0.1	--
Sampling Date recorded on COC			29/5/06	29/5/06	29/5/06	29/5/06	29/5/06	29/5/06	29/5/06	30/5/06	30/5/06	30/5/06
Laboratory Extraction (Preparation) Date			1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06
Laboratory Analysis Date			3/6/06	3/6/06	3/6/06	3/6/06	3/6/06	3/6/06	3/6/06	3/6/06	6/6/06	6/6/06
Method	Polychlorinated Biphenyls (PCB)	EQL										
E013.2	Arochlor 1016	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	~<5	~<5
	Arochlor 1232	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	~<5	~<5
	Arochlor 1242	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	~<5	~<5
	Arochlor 1248	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	~<5	~<5
	Arochlor 1254	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	~<5	~<5
	Arochlor 1260	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	~<5	~<5
	Sum of reported PCBs	--	--	--	--	--	--	--	--	--	--	--
	DBC (Surr @ 0.2mg/kg)	--	86%	84%	90%	97%	75%	96%	80%	71%	89%	70%

Results expressed in mg/kg dry weight unless otherwise specified

Comments: ~Sample dilution required, EQLs adjusted accordingly.

E013.2: 8-10g soil extracted with 20ml hexane/acetone (1:1). Analysis by GC/dual ECD.



Laboratory Report No: E026815
Client Name: HLA - Envirosciences Pty Limited
Contact Name: Ben Pearce
Client Reference MM Group North Ryde S4062801

Page: 20 of 36
plus cover page
Date: 09/06/06

Final
Certificate
of Analysis



This report supercedes reports issued on: 07/06/06

Laboratory Identification			26101d	26101r	26104s	lcs	mb					
Sample Identification			QC	QC	QC	QC	QC					
Depth (m)			--	--	--	--	--					
Sampling Date recorded on COC			--	--	--	--	--					
Laboratory Extraction (Preparation) Date			1/6/06	--	1/6/06	1/6/06	1/6/06					
Laboratory Analysis Date			3/6/06	--	6/6/06	2/6/06	2/6/06					
Method	Polychlorinated Biphenyls (PCB)	EQL										
E013.2	Arochlor 1016	0.5	<0.5	--	--	--	<0.5					
	Arochlor 1232	0.5	<0.5	--	--	--	<0.5					
	Arochlor 1242	0.5	<0.5	--	--	--	<0.5					
	Arochlor 1248	0.5	<0.5	--	86%	115%	<0.5					
	Arochlor 1254	0.5	<0.5	--	--	--	<0.5					
	Arochlor 1260	0.5	<0.5	--	--	--	<0.5					
	Sum of reported PCBs	--	--	--	--	--	--					
	DBC (Surr @ 0.2mg/kg)	--	79%	20%	121%	115%	125%					

Results expressed in mg/kg dry weight unless otherwise specified

Comments: ~Sample dilution required, EQLs adjusted accordingly.

E013.2: 8-10g soil extracted with 20ml hexane/acetone (1:1). Analysis by GC/dual ECD.



Laboratory Report No: E026815
Client Name: HLA - Envirosciences Pty Limited
Contact Name: Ben Pearce
Client Reference MM Group North Ryde S4062801

Page: 21 of 36
plus cover page
Date: 09/06/06

Final
Certificate
of Analysis



This report supercedes reports issued on: 07/06/06

Laboratory Identification			26108	26110	26113	26135					
Sample Identification			HA04	HA05	BH11	BH16					
Depth (m)			0.0-0.1	0.0-0.1	0.05-0.15	0.1-0.3					
Sampling Date recorded on COC			29/5/06	29/5/06	30/5/06	30/5/06					
Laboratory Extraction (Preparation) Date			6/6/06	6/6/06	6/6/06	6/6/06					
Laboratory Analysis Date			--	--	--	--					
Method	TCLP Preparation	EQL									
E019.2	TCLP Fluid No.	--	1	1	1	1					
	Initial pH (pH units)	--	8.0	7.6	9.0	6.7					
	pH after HCl (pH units)	--	1.9	1.9	1.9	1.9					
	Final pH (pH units)	--	5.0	4.9	4.9	4.8					

Results expressed in pH units unless otherwise specified

Comments:

E019.2: Soil leached for 18 hours with fluid as specified above . Refer to relevant water method for results.



Laboratory Report No: E026815
Client Name: HLA - Envirosciences Pty Limited
Contact Name: Ben Pearce
Client Reference: MM Group North Ryde S4062801

Page: 22 of 36
plus cover page
Date: 09/06/06

Final
Certificate
of Analysis



This report supercedes reports issued on: 07/06/06

Laboratory Identification			26065	26070	26071	26073	26075	26078	26081	26085	26088	26089
Sample Identification			BH01	BH02	BH02	BH03	BH04	BH04	BH05	BH06	BH06	BH07
Depth (m)			0.05-0.2	0.05-0.15	0.4-0.5	0.15-0.25	0.05-0.15	0.8-1.0	0.05-0.15	0.05-0.15	1.0-1.1	0.15-0.3
Sampling Date recorded on COC			29/5/06	29/5/06	29/5/06	29/5/06	29/5/06	29/5/06	29/5/06	29/5/06	29/5/06	29/5/06
Laboratory Extraction (Preparation) Date			2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06
Laboratory Analysis Date			2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06
Method	Acid extractable metals (M7)	EQL										
E022.2	Arsenic	1	1	<1	8	1	4	11	3	<1	5	3
	Cadmium	0.1	<0.1	0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Chromium	1	17	15	15	5	11	16	11	12	5	7
	Copper	2	68	85	4	2	30	12	43	85	8	2
	Nickel	1	100	120	<1	<1	25	4	37	100	2	<1
	Lead	2	4	4	14	<2	24	17	18	3	7	13
	Zinc	5	58	61	<5	<5	43	11	55	54	<5	<5

Results expressed in mg/kg dry weight unless otherwise specified

Comments: # Percent recovery not available due to significant background levels of analyte in sample.

E022.2: 0.5g digested in nitric/hydrochloric acid. Analysis by ICP-MS.



Laboratory Report No: E026815
Client Name: HLA - Envirosciences Pty Limited
Contact Name: Ben Pearce
Client Reference MM Group North Ryde S4062801

Page: 23 of 36
plus cover page
Date: 09/06/06

Final
Certificate
of Analysis



This report supercedes reports issued on: 07/06/06

Laboratory Identification			26091	26092	26096	26099	26100	26101	26102	26104	26108	26110
Sample Identification			BH08	BH08	BH09	BH10	HA01	HA01	HA02	HA02	HA04	HA05
Depth (m)			0.16-0.25	0.6-0.8	0.17-0.3	0.16-0.3	0.0-0.1	0.5-0.6	0.0-0.1	0.5-0.6	0.0-0.1	0.0-0.1
Sampling Date recorded on COC			29/5/06	29/5/06	29/5/06	29/5/06	29/5/06	29/5/06	29/5/06	29/5/06	29/5/06	29/5/06
Laboratory Extraction (Preparation) Date			2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06
Laboratory Analysis Date			2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	3/6/06	3/6/06	3/6/06
Method	Acid extractable metals (M7)	EQL										
E022.2	Arsenic	1	7	13	12	1	4	2	2	3	3	6
	Cadmium	0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	0.2	0.1	16	0.4
	Chromium	1	15	17	22	5	15	8	9	9	24	23
	Copper	2	2	3	11	3	13	5	11	9	76	30
	Nickel	1	<1	<1	2	3	2	1	5	2	46	10
	Lead	2	13	11	25	9	36	17	27	14	97	150
	Zinc	5	5	<5	38	12	40	26	40	57	850	120

Results expressed in mg/kg dry weight unless otherwise specified

Comments: # Percent recovery not available due to significant background levels of analyte in sample.

E022.2: 0.5g digested in nitric/hydrochloric acid. Analysis by ICP-MS.



Laboratory Report No: E026815
Client Name: HLA - Envirosciences Pty Limited
Contact Name: Ben Pearce
Client Reference MM Group North Ryde S4062801

Page: 24 of 36
plus cover page
Date: 09/06/06

Final
Certificate
of Analysis



This report supercedes reports issued on: 07/06/06

Laboratory Identification			26113	26115	26120	26124	26125	26126	26132	26133	26135	26137
Sample Identification			BH11	BH11	BH12	BH13	BH13	BH14	BH15	BH15	BH16	BH16
Depth (m)			0.05-0.15	0.6-0.8	0.0-0.3	0.0-0.1	0.5-0.6	0.05-0.25	0.15-0.35	0.6-0.8	0.1-0.3	1.9-2.0
Sampling Date recorded on COC			30/5/06	30/5/06	30/5/06	30/5/06	30/5/06	30/5/06	30/5/06	30/5/06	30/5/06	30/5/06
Laboratory Extraction (Preparation) Date			2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06
Laboratory Analysis Date			3/6/06	3/6/06	3/6/06	3/6/06	3/6/06	3/6/06	3/6/06	3/6/06	3/6/06	3/6/06
Method	Acid extractable metals (M7)	EQL										
E022.2	Arsenic	1	<1	8	4	3	6	5	2	2	15	7
	Cadmium	0.1	<0.1	<0.1	0.1	0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1
	Chromium	1	14	22	17	11	23	22	9	8	10	8
	Copper	2	94	4	6	9	19	18	2	<2	20	23
	Nickel	1	130	1	1	4	3	16	2	<1	19	<1
	Lead	2	3	19	24	37	45	16	8	14	63	12
	Zinc	5	61	<5	27	33	23	14	15	<5	13	6

Results expressed in mg/kg dry weight unless otherwise specified

Comments: # Percent recovery not available due to significant background levels of analyte in sample.

E022.2: 0.5g digested in nitric/hydrochloric acid. Analysis by ICP-MS.



Laboratory Report No: E026815
Client Name: HLA - Envirosciences Pty Limited
Contact Name: Ben Pearce
Client Reference MM Group North Ryde S4062801

Page: 25 of 36
plus cover page
Date: 09/06/06

Final
Certificate
of Analysis



This report supercedes reports issued on: 07/06/06

Laboratory Identification			26138	26139	26140	26143	26144	26145	26065d	26065r	26085d	26085r
Sample Identification			BH16	BH17	BH17	DUP02	DUP03	DUP04	QC	QC	QC	QC
Depth (m)			2.9-3.0	0.17-0.3	0.4-0.6	--	--	--	--	--	--	--
Sampling Date recorded on COC			30/5/06	30/5/06	30/5/06	30/5/06	30/5/06	30/5/06	--	--	--	--
Laboratory Extraction (Preparation) Date			2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	--	2/6/06	--
Laboratory Analysis Date			3/6/06	3/6/06	3/6/06	3/6/06	3/6/06	3/6/06	2/6/06	--	2/6/06	--
Method	Acid extractable metals (M7)	EQL										
E022.2	Arsenic	1	9	1	4	4	3	6	1	0%	<1	--
	Cadmium	0.1	<0.1	<0.1	<0.1	0.1	0.1	<0.1	<0.1	--	0.2	>67%
	Chromium	1	12	6	10	16	10	8	15	13%	10	18%
	Copper	2	46	<2	5	6	8	23	72	6%	82	4%
	Nickel	1	17	2	2	2	3	<1	100	0%	93	7%
	Lead	2	14	9	17	25	35	15	4	0%	2	40%
	Zinc	5	83	17	16	32	29	6	56	4%	49	10%

Results expressed in mg/kg dry weight unless otherwise specified

Comments: # Percent recovery not available due to significant background levels of analyte in sample.

E022.2: 0.5g digested in nitric/hydrochloric acid. Analysis by ICP-MS.



Laboratory Report No: E026815
Client Name: HLA - Envirosciences Pty Limited
Contact Name: Ben Pearce
Client Reference MM Group North Ryde S4062801

Page: 26 of 36
plus cover page
Date: 09/06/06

Final
Certificate
of Analysis



This report supercedes reports issued on: 07/06/06

Laboratory Identification			26101d	26101r	26133d	26133r	26070s	26104s	crm	lcs	mb	
Sample Identification			QC	QC	QC	QC	QC	QC	QC	QC	QC	
Depth (m)			--	--	--	--	--	--	--	--	--	
Sampling Date recorded on COC			--	--	--	--	--	--	--	--	--	
Laboratory Extraction (Preparation) Date			2/6/06	--	2/6/06	--	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	
Laboratory Analysis Date			2/6/06	--	3/6/06	--	2/6/06	3/6/06	2/6/06	2/6/06	2/6/06	
Method	Acid extractable metals (M7)	EQL										
E022.2	Arsenic	1	2	0%	2	0%	102%	95%	120%	112%	<1	
	Cadmium	0.1	<0.1	--	<0.1	--	95%	101%	106%	94%	<0.1	
	Chromium	1	8	0%	8	0%	77%	103%	115%	95%	<1	
	Copper	2	4	22%	2	>0%	#	117%	112%	95%	<2	
	Nickel	1	1	0%	<1	--	#	99%	105%	92%	<1	
	Lead	2	14	19%	12	15%	99%	85%	110%	103%	<2	
	Zinc	5	28	7%	<5	--	#	119%	106%	95%	<5	

Results expressed in mg/kg dry weight unless otherwise specified

Comments: # Percent recovery not available due to significant background levels of analyte in sample.

E022.2: 0.5g digested in nitric/hydrochloric acid. Analysis by ICP-MS.



Laboratory Report No: E026815
Client Name: HLA - Envirosciences Pty Limited
Contact Name: Ben Pearce
Client Reference MM Group North Ryde S4062801

Page: 27 of 36
plus cover page
Date: 09/06/06

Final
Certificate
of Analysis



This report supercedes reports issued on: 07/06/06

Laboratory Identification			26065	26070	26071	26073	26075	26078	26081	26085	26088	26089
Sample Identification			BH01	BH02	BH02	BH03	BH04	BH04	BH05	BH06	BH06	BH07
Depth (m)			0.05-0.2	0.05-0.15	0.4-0.5	0.15-0.25	0.05-0.15	0.8-1.0	0.05-0.15	0.05-0.15	1.0-1.1	0.15-0.3
Sampling Date recorded on COC			29/5/06	29/5/06	29/5/06	29/5/06	29/5/06	29/5/06	29/5/06	29/5/06	29/5/06	29/5/06
Laboratory Extraction (Preparation) Date			2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06
Laboratory Analysis Date			2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06
Method	Acid extractable mercury	EQL										
E026.2	Mercury	0.05	<0.05	<0.05	0.06	<0.05	0.11	<0.05	0.07	<0.05	<0.05	<0.05

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E026.2: 0.5g digested with nitric/hydrochloric acid. Analysis by CV-ICP-MS or FIMS.

Laboratory Identification			26091	26092	26096	26099	26100	26101	26102	26104	26108	26110
Sample Identification			BH08	BH08	BH09	BH10	HA01	HA01	HA02	HA02	HA04	HA05
Depth (m)			0.16-0.25	0.6-0.8	0.17-0.3	0.16-0.3	0.0-0.1	0.5-0.6	0.0-0.1	0.5-0.6	0.0-0.1	0.0-0.1
Sampling Date recorded on COC			29/5/06	29/5/06	29/5/06	29/5/06	29/5/06	29/5/06	29/5/06	29/5/06	29/5/06	29/5/06
Laboratory Extraction (Preparation) Date			2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06
Laboratory Analysis Date			2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	5/6/06	5/6/06	5/6/06
Method	Acid extractable mercury	EQL										
E026.2	Mercury	0.05	0.06	<0.05	0.05	<0.05	0.11	0.05	0.09	0.05	0.19	0.25

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E026.2: 0.5g digested with nitric/hydrochloric acid. Analysis by CV-ICP-MS or FIMS.



Laboratory Report No: E026815
Client Name: HLA - Envirosciences Pty Limited
Contact Name: Ben Pearce
Client Reference MM Group North Ryde S4062801

Page: 28 of 36
plus cover page
Date: 09/06/06

Final
Certificate
of Analysis



This report supercedes reports issued on: 07/06/06

Laboratory Identification			26113	26115	26120	26124	26125	26126	26132	26133	26135	26137
Sample Identification			BH11	BH11	BH12	BH13	BH13	BH14	BH15	BH15	BH16	BH16
Depth (m)			0.05-0.15	0.6-0.8	0.0-0.3	0.0-0.1	0.5-0.6	0.05-0.25	0.15-0.35	0.6-0.8	0.1-0.3	1.9-2.0
Sampling Date recorded on COC			30/5/06	30/5/06	30/5/06	30/5/06	30/5/06	30/5/06	30/5/06	30/5/06	30/5/06	30/5/06
Laboratory Extraction (Preparation) Date			2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06
Laboratory Analysis Date			5/6/06	5/6/06	5/6/06	5/6/06	5/6/06	5/6/06	5/6/06	5/6/06	5/6/06	5/6/06
Method	Acid extractable mercury	EQL										
E026.2	Mercury	0.05	0.05	0.05	0.11	0.10	0.13	0.09	<0.05	<0.05	<0.05	<0.05

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E026.2: 0.5g digested with nitric/hydrochloric acid. Analysis by CV-ICP-MS or FIMS.

Laboratory Identification			26138	26139	26140	26143	26144	26145	26065d	26065r	26085d	26085r
Sample Identification			BH16	BH17	BH17	DUP02	DUP03	DUP04	QC	QC	QC	QC
Depth (m)			2.9-3.0	0.17-0.3	0.4-0.6	--	--	--	--	--	--	--
Sampling Date recorded on COC			30/5/06	30/5/06	30/5/06	30/5/06	30/5/06	30/5/06	--	--	--	--
Laboratory Extraction (Preparation) Date			2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	--	2/6/06	--
Laboratory Analysis Date			5/6/06	5/6/06	5/6/06	5/6/06	5/6/06	5/6/06	2/6/06	--	2/6/06	--
Method	Acid extractable mercury	EQL										
E026.2	Mercury	0.05	0.11	<0.05	<0.05	0.10	0.1	<0.05	<0.05	--	<0.05	--

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E026.2: 0.5g digested with nitric/hydrochloric acid. Analysis by CV-ICP-MS or FIMS.



Laboratory Report No: E026815
Client Name: HLA - Envirosciences Pty Limited
Contact Name: Ben Pearce
Client Reference MM Group North Ryde S4062801

Page: 29 of 36
plus cover page
Date: 09/06/06

Final
Certificate
of Analysis



This report supercedes reports issued on: 07/06/06

Laboratory Identification			26101d	26101r	26133d	26133r	26070s	26104s	crm	lcs	mb	
Sample Identification			QC	QC	QC	QC	QC	QC	QC	QC	QC	
Depth (m)			--	--	--	--	--	--	--	--	--	
Sampling Date recorded on COC			--	--	--	--	--	--	--	--	--	
Laboratory Extraction (Preparation) Date			2/6/06	--	2/6/06	--	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	
Laboratory Analysis Date			2/6/06	--	5/6/06	--	2/6/06	5/6/06	2/6/06	2/6/06	2/6/06	
Method	Acid extractable mercury	EQL										
E026.2	Mercury	0.05	<0.05	>0.0%	<0.05	--	100%	104%	106%	95%	<0.05	

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E026.2: 0.5g digested with nitric/hydrochloric acid. Analysis by CV-ICP-MS or FIMS.



Laboratory Report No: E026815
Client Name: HLA - Envirosciences Pty Limited
Contact Name: Ben Pearce
Client Reference MM Group North Ryde S4062801

Page: 30 of 36
plus cover page
Date: 09/06/06

Final
Certificate
of Analysis



This report supercedes reports issued on: 07/06/06

Laboratory Identification			26112	lcs	mb						
Sample Identification			QW01	QC	QC						
Depth (m)			--	--	--						
Sampling Date recorded on COC			29/5/06	--	--						
Laboratory Extraction (Preparation) Date			2/6/06	2/6/06	2/6/06						
Laboratory Analysis Date			3/6/06	2/6/06	2/6/06						
Method	Filtered metals (M7)	EQL									
E022.1	Arsenic	1	<1	98%	<1						
	Cadmium	0.1	<0.1	95%	<0.1						
	Chromium	1	<1	96%	<1						
	Copper	1	<1	97%	<1						
	Nickel	1	<1	94%	<1						
	Lead	1	<1	92%	<1						
	Zinc	5	<5	94%	<5						

Results expressed in ug/l unless otherwise specified

Comments:

E022.1: Filtered HNO3 preserved sample directly analysed by ICP-MS.



Laboratory Report No: E026815
Client Name: HLA - Envirosciences Pty Limited
Contact Name: Ben Pearce
Client Reference MM Group North Ryde S4062801

Page: 31 of 36
plus cover page
Date: 09/06/06

Final
Certificate
of Analysis



This report supercedes reports issued on: 07/06/06

Laboratory Identification			26112	lcs	mb						
Sample Identification			QW01	QC	QC						
Depth (m)			--	--	--						
Sampling Date recorded on COC			29/5/06	--	--						
Laboratory Extraction (Preparation) Date			2/6/06	2/6/06	2/6/06						
Laboratory Analysis Date			5/6/06	2/6/06	2/6/06						
Method	Filtered mercury	EQL									
E026.1	Mercury	0.1	<0.1	94%	<0.1						

Results expressed in ug/l unless otherwise specified

Comments:

E026.1: Analysis by CV-ICP-MS or FIMS following BrCl pre-treatment.



Laboratory Report No: E026815
Client Name: HLA - Envirosciences Pty Limited
Contact Name: Ben Pearce
Client Reference MM Group North Ryde S4062801

Page: 32 of 36
plus cover page
Date: 09/06/06

Final
Certificate
of Analysis



This report supercedes reports issued on: 07/06/06

Laboratory Identification			26108	26110	26113	26135	lcs	mb				
Sample Identification			HA04	HA05	BH11	BH16	QC	QC				
Depth (m)			0.0-0.1	0.0-0.1	0.05-0.15	0.1-0.3	--	--				
Sampling Date recorded on COC			29/5/06	29/5/06	30/5/06	30/5/06	--	--				
Laboratory Extraction (Preparation) Date			7/6/06	7/6/06	7/6/06	7/6/06	7/6/06	7/6/06				
Laboratory Analysis Date			9/6/06	9/6/06	9/6/06	9/6/06	9/6/06	9/6/06				
Method	TCLP metals	EQL										
E022.1	Arsenic	10	--	--	--	<10	94%	<10				
	Cadmium	1	10	--	--	--	100%	<1				
	Chromium	50	<50	--	--	--	109%	<50				
	Lead	10	--	20	--	--	95%	<10				
	Nickel	50	--	--	150	--	102%	<50				

Results expressed in ug/l unless otherwise specified

Comments:

E022.1: Filtered TCLP leachate acidified with nitric/hydrochloric acid. Analysis by ICP/MS. Results are expressed as in the leachate.



Laboratory Report No: E026815
Client Name: HLA - Envirosciences Pty Limited
Contact Name: Ben Pearce
Client Reference MM Group North Ryde S4062801

Page: 33 of 36
plus cover page
Date: 09/06/06

Final
Certificate
of Analysis



This report supercedes reports issued on: 07/06/06

Laboratory Identification			26075	26085	26088	26091	26096	26124	26139	26085d	26085r	
Sample Identification			BH04	BH06	BH06	BH08	BH09	BH13	BH17	QC	QC	
Depth (m)			0.05-0.15	0.05-0.15	1.0-1.1	0.16-0.25	0.17-0.3	0.0-0.1	0.17-0.3	--	--	
Sampling Date recorded on COC			29/5/06	29/5/06	29/5/06	29/5/06	29/5/06	30/5/06	30/5/06	--	--	
Laboratory Extraction (Preparation) Date			1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	--	
Laboratory Analysis Date			1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	--	
Method	pH in soil	EQL										
E031.2	pH (pH units)	0.1	9.0	9.0	4.3	4.9	4.9	5.4	8.9	9.0	0.0%	

Results expressed in pH units unless otherwise specified

Comments:

E031.2: 1:5 soil leachate. Followed by measurement by pH ion selective electrode. Results expressed as per leachate.



Laboratory Report No: E026815
Client Name: HLA - Envirosiences Pty Limited
Contact Name: Ben Pearce
Client Reference MM Group North Ryde S4062801

Page: 34 of 36
plus cover page
Date: 09/06/06

Final
Certificate
of Analysis



This report supercedes reports issued on: 07/06/06

Laboratory Identification			26065	26070	26071	26073	26075	26078	26081	26085	26088	26089
Sample Identification			BH01	BH02	BH02	BH03	BH04	BH04	BH05	BH06	BH06	BH07
Depth (m)			0.05-0.2	0.05-0.15	0.4-0.5	0.15-0.25	0.05-0.15	0.8-1.0	0.05-0.15	0.05-0.15	1.0-1.1	0.15-0.3
Sampling Date recorded on COC			29/5/06	29/5/06	29/5/06	29/5/06	29/5/06	29/5/06	29/5/06	29/5/06	29/5/06	29/5/06
Laboratory Extraction (Preparation) Date			1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06
Laboratory Analysis Date			2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06
Method	Moisture	EQL										
E005.2	Moisture	--	4	4	18	12	7	15	5	5	9	17

Results expressed in % w/w unless otherwise specified

Comments:

E005.2: Moisture by gravimetric analysis. Results are in % w/w.

Laboratory Identification			26091	26092	26096	26099	26100	26101	26102	26104	26108	26110
Sample Identification			BH08	BH08	BH09	BH10	HA01	HA01	HA02	HA02	HA04	HA05
Depth (m)			0.16-0.25	0.6-0.8	0.17-0.3	0.16-0.3	0.0-0.1	0.5-0.6	0.0-0.1	0.5-0.6	0.0-0.1	0.0-0.1
Sampling Date recorded on COC			29/5/06	29/5/06	29/5/06	29/5/06	29/5/06	29/5/06	29/5/06	29/5/06	29/5/06	29/5/06
Laboratory Extraction (Preparation) Date			1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06
Laboratory Analysis Date			2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06
Method	Moisture	EQL										
E005.2	Moisture	--	18	12	17	7	15	7	14	7	27	8

Results expressed in % w/w unless otherwise specified

Comments:

E005.2: Moisture by gravimetric analysis. Results are in % w/w.



Laboratory Report No: E026815
Client Name: HLA - Envirosciences Pty Limited
Contact Name: Ben Pearce
Client Reference MM Group North Ryde S4062801

Page: 35 of 36
plus cover page
Date: 09/06/06

Final
Certificate
of Analysis



This report supercedes reports issued on: 07/06/06

Laboratory Identification			26113	26115	26120	26124	26125	26126	26132	26133	26135	26136
Sample Identification			BH11	BH11	BH12	BH13	BH13	BH14	BH15	BH15	BH16	BH16
Depth (m)			0.05-0.15	0.6-0.8	0.0-0.3	0.0-0.1	0.5-0.6	0.05-0.25	0.15-0.35	0.6-0.8	0.1-0.3	0.6-0.8
Sampling Date recorded on COC			30/5/06	30/5/06	30/5/06	30/5/06	30/5/06	30/5/06	30/5/06	30/5/06	30/5/06	30/5/06
Laboratory Extraction (Preparation) Date			1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06
Laboratory Analysis Date			2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06
Method	Moisture	EQL										
E005.2	Moisture	--	3	17	7	6	14	18	15	16	11	12

Results expressed in % w/w unless otherwise specified

Comments:

E005.2: Moisture by gravimetric analysis. Results are in % w/w.

Laboratory Identification			26137	26138	26139	26140	26143	26144	26145	26147	26148	26065d
Sample Identification			BH16	BH16	BH17	BH17	DUP02	DUP03	DUP04	BIT01	BIT02	QC
Depth (m)			1.9-2.0	2.9-3.0	0.17-0.3	0.4-0.6	--	--	--	--	--	--
Sampling Date recorded on COC			30/5/06	30/5/06	30/5/06	30/5/06	30/5/06	30/5/06	30/5/06	30/5/06	30/5/06	--
Laboratory Extraction (Preparation) Date			1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06	1/6/06
Laboratory Analysis Date			2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06	2/6/06
Method	Moisture	EQL										
E005.2	Moisture	--	10	9	6	16	10	7	11	1	1	5

Results expressed in % w/w unless otherwise specified

Comments:

E005.2: Moisture by gravimetric analysis. Results are in % w/w.



Laboratory Report No: E026815
Client Name: HLA - Envirosciences Pty Limited
Contact Name: Ben Pearce
Client Reference MM Group North Ryde S4062801

Page: 36 of 36
plus cover page
Date: 09/06/06

Final
Certificate
of Analysis



This report supercedes reports issued on: 07/06/06

Laboratory Identification			26065r	26085d	26085r	26101d	26101r	26124d	26124r	26133d	26133r	
Sample Identification			QC	QC	QC	QC	QC	QC	QC	QC	QC	
Depth (m)			--	--	--	--	--	--	--	--	--	
Sampling Date recorded on COC			--	--	--	--	--	--	--	--	--	
Laboratory Extraction (Preparation) Date			--	1/6/06	--	1/6/06	--	1/6/06	--	1/6/06	--	
Laboratory Analysis Date			--	2/6/06	--	2/6/06	--	2/6/06	--	2/6/06	--	
Method	Moisture	EQL										
E005.2	Moisture	--	22%	5	0%	7	0%	6	0%	15	6%	

Results expressed in % w/w unless otherwise specified

Comments:

E005.2: Moisture by gravimetric analysis. Results are in % w/w.



AUSTRALIAN SAFER ENVIRONMENT & TECHNOLOGY PTY LTD

ABN 36 088 095 112

Our ref : ASET 8783/ 11917 / 1 - 3

Your ref: E026815

NATA Accreditation No: 14484

7 June 2006

LABMARK
P O Box 641,
Hornsby NSW 1630

Attn:Mr David Burns

Dear David,

Asbestos Identification

This report presents the results of three samples, forwarded by LABMARK on 5 June 2006, for analysis for asbestos.

1.Introduction:Three samples forwarded were examined and analysed for the presence of asbestos.

2. Methods : The samples were examined under a Stereo Microscope and selected fibres were analysed by Polarized Light Microscopy in conjunction with Dispersion Staining method (**Safer Environment Method 1.**)

3. Results : **Sample No. 1. ASET 8783 / 11917 / 1. E026815 - 26104 - HA02 - 0.5 - 0.6.**
Approx dimensions 5.0 cm x 4.0 cm x 2.0 cm
The sample consisted of a mixture of sandy soil, stones, plant matter and fragments of bitumen.
No asbestos detected.

Sample No. 2. ASET 8783 / 11917 / 2. E026815 - 26149 - SS01.
Approx dimensions 14.0 cm x 5.0 cm x 3.5 cm
The sample consisted of a mixture of clayish sandy soil, stones, plant matter, fragments of plaster and brick.
Chrysotile asbestos and Amosite asbestos detected.

Sample No. 3. ASET 8783 / 11917 / 3. E026815 - 26150 - MS01.
Approx dimensions 8.0 cm x 6.0 cm x 0.5 cm
The sample consisted of a fragment of a fibro plaster cement material.
Chrysotile asbestos detected.

Analysed and reported by,

Mahen De Silva . BSc. MSc. Grad Dip (Occ Hyg)
Occupational Hygienist / Approved Signatory.



UNIT 7 LEVEL 2, 1 LEONARD STREET, HORNSBY NSW 2077 – P.O. BOX 1644 HORNSBY NORTHGATE NSW 1635

PHONE: (02) 99872183 FAX: (02)99872151 EMAIL: aset@bigpond.net.au WEBSITE: www.aset.com.au

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Quality, Service, Support

Report Date : 7/06/2006
Report Time : 2:02:38PM

Sample Receipt Notice (SRN) for E026815



Client Details		Laboratory Reference Information	
Client Name: HLA - Envirosiences Pty Limited Client Phone: 02 8484 8999 Client Fax: 02 8484 8989 Contact Name: Ben Pearce Contact Email: bpearce@hla-enviro.com.au Client Address: PO Box 726 Pymble NSW 2073 Project Name: MM Group North Ryde Project Number: S4062801 CoC Number: - Not provided - Purchase Order: 143588 Surcharge: No surcharge applied (results by 6:30pm on due date) Sample Matrix: OTHER & SOIL & WATER		Please have this information ready when contacting Labmark. Laboratory Report: E026815 Quotation Number: - Not provided, standard prices apply Laboratory Address: Unit 1, 8 Leighton Pl. Asquith NSW 2077 Phone: 61 2 9476 6533 Fax: 61 2 9476 8219 Sample Receipt Contact: Ros Schacht Email: ros.schacht@labmark.com.au Reporting Contact: Jyothi Lal Email: jyothi.lal@labmark.com.au	
Date Sampled (earliest date): 29/05/2006 Date Samples Received: 31/05/2006 Date Sample Receipt Notice issued: 07/06/2006 Date Preliminary Report Due: 05/06/2006		NATA Accreditation: 13542 TGA GMP License: 185-336 (Sydney) APVMA License: 6105 (Sydney) AQIS Approval: NO356 (Sydney) AQIS Entry Permit: 200409998 (Sydney)	

Sample Condition:

COC received with samples. Report number and lab ID's defined on COC.

Samples received in good order.

Samples received with cooling media: Crushed ice.

Samples received chilled.

Security seals not required. Direct Labmark's custody taken.

Sample container & sample integrity suitable.

Comments:

SRN reissued with additional TCLP analysis. COC analysis request arrived at 16:32 on 31 May 06. Asbestos subcontracted to ASET.

Holding Times:

Date received allows for sufficient time to meet Technical Holding Times.

Preservation:

Chemical preservation of samples satisfactory for requested analytes.

Important Notes:

Sample disposal of environmental samples shall be 31 days (water) and 3 months (soil, HN03 preserved samples) after laboratory receipt, unless otherwise requested in writing by the client. Samples requested to be held in non-refrigerated storage shall incur \$5.00/ sample/ 3 months. Additional refrigerated storage shall incur \$20/ sample/ 3 months. Combination prices apply only if requested. Transfer of report ownership from LabMark to the client shall occur once full and final payment has been settled and verified. All report copies may be retracted where full payment does not occur within the agreed settlement period.

Analysis comments:

VOC E010.2: Dichloromethane not reported unless requested.

Subcontracted Analyses:

Reported by Aust. Safer Env & Tech., NATA accreditation No. 14484

Thank you for choosing Labmark to analyse your project samples.
Additional information on www.labmark.com.au



Quality, Service, Support

Report Date : 7/06/2006
Report Time : 2:02:38PM

Sample Receipt Notice (SRN) for E026815



The table below represents LabMark's understanding and interpretation of the customer supplied sample COC request. Please confirm that your COC request has been entered correctly. Due to THT and TAT requirements, testing shall commence immediately as per this table, unless the customer intervenes with a correction prior to testing.

GRID REVIEW TABLE				Requested Analysis																						
No.	Date	Depth	Client Sample ID	Analysis Results																						
				BTEX by P&T	BTEX by P&T	Filtered mercury	Acid extractable mercury	ON HOLD	ON HOLD	Filtered metals (M7)	Acid extractable metals (M7)	TCLP metals	Moisture	Organochlorine Pesticides (OC)	Organophosphorus Pesticides	Polyaromatic Hydrocarbons (PAH)	Polyaromatic Hydrocarbons (PAH)	Polychlorinated Biphenyls (PCB)	pH in soil	PREP	Not Reported	PREP	Not Reported	PREP	Not Reported	TCLP Preparation
26065	29/05	0.05-0.2	BH01				●				●		●									●				
26066	29/05	0.4-0.6	BH01					●																		
26067	29/05	1.0-1.2	BH01						●																	
26068	29/05	2.0-2.2	BH01						●																	
26069	29/05	2.7-2.8	BH01						●																	
26070	29/05	0.05-0.15	BH02				●				●		●									●				
26071	29/05	0.4-0.5	BH02				●				●		●									●				
26072	29/05	1.0-1.1	BH02					●																		
26073	29/05	0.15-0.25	BH03				●				●		●									●				
26074	29/05	0.3-0.5	BH03					●																		
26075	29/05	0.05-0.15	BH04	●			●				●		●	●	●	●		●	●		●					●
26076	29/05	0.2-0.3	BH04						●																	
26077	29/05	0.4-0.5	BH04						●																	
26078	29/05	0.8-1.0	BH04				●				●		●									●				
26079	29/05	1.9-2.0	BH04						●																	
26080	29/05	2.9-3.0	BH04					●																		
26081	29/05	0.05-0.15	BH05				●				●		●									●				
26082	29/05	0.4-0.5	BH05						●																	
26084	29/05	1.2-1.3	BH05						●																	
26085	29/05	0.05-0.15	BH06	●			●				●		●			●		●		●	●	●				●
26086	29/05	0.4-0.5	BH06						●																	
26087	29/05	0.6-0.7	BH06						●																	
26088	29/05	1.0-1.1	BH06	●			●				●		●			●		●	●		●					●
26089	29/05	0.15-0.3	BH07	●			●				●		●								●					●
26090	29/05	0.6-0.75	BH07						●																	
26091	29/05	0.16-0.25	BH08	●			●				●		●						●		●					●
26092	29/05	0.6-0.8	BH08	●			●				●		●								●					●
26093	29/05	1.3-1.4	BH08						●																	
26094	29/05	1.9-2.0	BH08						●																	
26095	29/05	2.9-3.0	BH08						●																	
26096	29/05	0.17-0.3	BH09	●			●				●		●	●				●	●		●					●
26097	29/05	0.4-0.6	BH09						●																	

Thank you for choosing Labmark to analyse your project samples.
Additional information on www.labmark.com.au



Quality, Service, Support

Report Date : 7/06/2006
Report Time : 2:02:38PM

Sample Receipt Notice (SRN) for E026815



The table below represents LabMark's understanding and interpretation of the customer supplied sample COC request. Please confirm that your COC request has been entered correctly. Due to THT and TAT requirements, testing shall commence immediately as per this table, unless the customer intervenes with a correction prior to testing.

GRID REVIEW TABLE				Requested Analysis																				
No.	Date	Depth	Client Sample ID	Analysis Results																				
				BTEX by P&T	BTEX by P&T	Filtered mercury	Acid extractable mercury	ON HOLD	ON HOLD	Filtered metals (M7)	Acid extractable metals (M7)	TCLP metals	Moisture	Organochlorine Pesticides (OC)	Organophosphorus Pesticides	Polyaromatic Hydrocarbons (PAH)	Polyaromatic Hydrocarbons (PAH)	Polychlorinated Biphenyls (PCB)	pH in soil	PREP Not Reported	PREP Not Reported	PREP Not Reported	TCLP Preparation	Petroleum Hydrocarbons (TPH)
26098	29/05	1.2-1.3	BH09					●																
26099	29/05	0.16-0.3	BH10				●				●		●								●			
26100	29/05	0.0-0.1	HA01				●				●		●								●			
26101	29/05	0.5-0.6	HA01	●			●				●		●	●	●	●		●			●			●
26102	29/05	0.0-0.1	HA02				●				●		●							●				
26103	29/05	0.3-0.4	HA02					●																
26104	29/05	0.5-0.6	HA02	●			●				●		●	●	●	●		●			●			●
26105	29/05	0.1-0.2	HA03					●																
26106	29/05	0.2-0.3	HA03					●																
26107	29/05	0.4-0.5	HA03					●																
26108	29/05	0.0-0.1	HA04				●				●	●	●	●	●					●		●	●	
26109	29/05	0.45-0.5	HA04					●													●			
26110	29/05	0.0-0.1	HA05				●				●	●	●	●	●					●		●	●	●
26111	29/05	0.4-0.5	HA05					●														●		
26112	29/05		QW01		●	●			●								●					●		
26113	30/05	0.05-0.15	BH11				●				●	●	●			●					●	●	●	
26114	30/05	0.4-0.5	BH11					●																
26115	30/05	0.6-0.8	BH11				●				●		●								●			
26116	30/05	1.9-2.0	BH11					●																
26117	30/05	2.9-3.0	BH11					●																
26118	30/05	3.9-4.0	BH11					●																
26119	30/05	4.9-5.0	BH11					●																
26120	30/05	0.0-0.3	BH12				●				●		●	●	●			●			●			
26121	30/05	0.6-0.8	BH12					●																
26123	30/05	1.6-1.7	BH12					●																
26124	30/05	0.0-0.1	BH13	●			●				●		●	●	●	●		●	●		●			●
26125	30/05	0.5-0.6	BH13				●				●		●								●			
26126	30/05	0.05-0.25	BH14	●			●				●		●			●					●			●
26127	30/05	0.6-0.8	BH14					●																
26128	30/05	1.3-1.5	BH14					●																
26129	30/05	1.9-2.0	BH14					●																
26130	30/05	2.9-3.0	BH14					●																

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Quality, Service, Support

Report Date : 7/06/2006
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Sample Receipt Notice (SRN) for E026815



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GRID REVIEW TABLE				Requested Analysis																						
No.	Date	Depth	Client Sample ID	Analysis Results																						
				BTEX by P&T	BTEX by P&T	Filtered mercury	Acid extractable mercury	ON HOLD	ON HOLD	Filtered metals (M7)	Acid extractable metals (M7)	TCLP metals	Moisture	Organochlorine Pesticides (OC)	Organophosphorus Pesticides	Polyaromatic Hydrocarbons (PAH)	Polyaromatic Hydrocarbons (PAH)	Polychlorinated Biphenyls (PCB)	pH in soil	PREP	Not Reported	PREP	Not Reported	PREP	Not Reported	TCLP Preparation
26131	30/05	3.9-4.0	BH14					●																		
26132	30/05	0.15-0.35	BH15	●			●			●		●									●					●
26133	30/05	0.6-0.8	BH15				●			●		●									●					
26134	30/05	1.0-1.2	BH15					●																		
26135	30/05	0.1-0.3	BH16				●				●	●	●									●	●	●	●	
26136	30/05	0.6-0.8	BH16	●									●									●				●
26137	30/05	1.9-2.0	BH16	●			●				●		●				●					●				●
26138	30/05	2.9-3.0	BH16	●			●				●		●				●					●				●
26139	30/05	0.17-0.3	BH17	●			●				●		●				●		●			●				●
26140	30/05	0.4-0.6	BH17				●				●		●									●				
26141	30/05	1.0-1.2	BH17					●																		
26142	30/05		DUP01					●																		
26143	30/05		DUP02				●				●		●									●				
26144	30/05		DUP03				●				●		●	●	●	●		●				●				
26145	30/05		DUP04	●			●				●		●				●					●				●
26146	30/05		DUP05					●																		
26147	30/05		BIT01										●				●					●				
26148	30/05		BIT02										●				●					●				
26149	30/05		SS01																			●				
26150	30/05		MS01																●							
26186	29/05	0.6-0.8	BH06					●																		
26187	29/05	0.4-0.5	HA01					●																		
26188	29/05	0.5	HA04					●																		
26189	30/05	1.4-1.5	BH12					●																		
Totals:				17	1	1	36	46	1	36	4	39	9	8	15	1	10	7	1	40	5	4	17			

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Quality, Service, Support

Report Date : 7/06/2006
Report Time : 2:02:38PM

Sample Receipt Notice (SRN) for E026815



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GRID REVIEW TABLE				Requested Analysis																
No.	Date	Depth	Client Sample ID	Petroleum Hydrocarbons (TPH)	Volatile Halogenated Compounds (VHC)	Volatile TPH by P&T (VTPH)	Volatile TPH by P&T (VTPH)	External Not reported	External Not reported											
26075	29/05	0.05-0.15	BH04			●														
26085	29/05	0.05-0.15	BH06			●														
26088	29/05	1.0-1.1	BH06			●														
26089	29/05	0.15-0.3	BH07			●														
26091	29/05	0.16-0.25	BH08		●	●														
26092	29/05	0.6-0.8	BH08			●														
26096	29/05	0.17-0.3	BH09		●	●														
26101	29/05	0.5-0.6	HA01			●														
26104	29/05	0.5-0.6	HA02			●		●												
26112	29/05		QW01	●			●													
26124	30/05	0.0-0.1	BH13			●														
26126	30/05	0.05-0.25	BH14			●														
26132	30/05	0.15-0.35	BH15			●														
26136	30/05	0.6-0.8	BH16			●														
26137	30/05	1.9-2.0	BH16			●														
26138	30/05	2.9-3.0	BH16			●														
26139	30/05	0.17-0.3	BH17			●														
26145	30/05		DUP04			●														
26149	30/05		SS01					●												
26150	30/05		MS01					●												
Totals:				1	2	17	1	1	2											

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Quality, Service, Support

Report Date : 7/06/2006
Report Time : 2:02:38PM

Sample
Receipt
Notice (SRN) for E026815



No. Date Depth Client Sample ID				Requested Analysis															
				M8 - M7-F_W	M8 - M7-T_S	MET-TCLP_W Arsenic	MET-TCLP_W Cadmium	MET-TCLP_W Chromium	MET-TCLP_W Lead	MET-TCLP_W Nickel									
26065	29/05	0.05-0.2	BH01		●														
26070	29/05	0.05-0.15	BH02		●														
26071	29/05	0.4-0.5	BH02		●														
26073	29/05	0.15-0.25	BH03		●														
26075	29/05	0.05-0.15	BH04		●														
26078	29/05	0.8-1.0	BH04		●														
26081	29/05	0.05-0.15	BH05		●														
26085	29/05	0.05-0.15	BH06		●														
26088	29/05	1.0-1.1	BH06		●														
26089	29/05	0.15-0.3	BH07		●														
26091	29/05	0.16-0.25	BH08		●														
26092	29/05	0.6-0.8	BH08		●														
26096	29/05	0.17-0.3	BH09		●														
26099	29/05	0.16-0.3	BH10		●														
26100	29/05	0.0-0.1	HA01		●														
26101	29/05	0.5-0.6	HA01		●														
26102	29/05	0.0-0.1	HA02		●														
26104	29/05	0.5-0.6	HA02		●														
26108	29/05	0.0-0.1	HA04		●		●	●											
26110	29/05	0.0-0.1	HA05		●				●										
26112	29/05		QW01	●															
26113	30/05	0.05-0.15	BH11		●				●										
26115	30/05	0.6-0.8	BH11		●														
26120	30/05	0.0-0.3	BH12		●														
26124	30/05	0.0-0.1	BH13		●														
26125	30/05	0.5-0.6	BH13		●														
26126	30/05	0.05-0.25	BH14		●														
26132	30/05	0.15-0.35	BH15		●														
26133	30/05	0.6-0.8	BH15		●														
26135	30/05	0.1-0.3	BH16		●	●													
26137	30/05	1.9-2.0	BH16		●														
26138	30/05	2.9-3.0	BH16		●														
26139	30/05	0.17-0.3	BH17		●														

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Quality, Service, Support

Report Date : 7/06/2006
Report Time : 2:02:38PM

Sample
Receipt
Notice (SRN) for E026815



No. Date Depth Client Sample ID				Requested Analysis															
				M8 - M7-F_W	M8 - M7-T_S	MET-TCLP_W Arsenic	MET-TCLP_W Cadmium	MET-TCLP_W Chromium	MET-TCLP_W Lead	MET-TCLP_W Nickel									
26140	30/05	0.4-0.6	BH17		●														
26143	30/05		DUP02		●														
26144	30/05		DUP03		●														
26145	30/05		DUP04		●														
Totals:				1	36	1	1	1	1	1									

Thank you for choosing Labmark to analyse your project samples.
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Ros Schacht

From: "Geoff Weir" <geoff.weir@labmark.com.au>
To: "Ros Schacht" <ros.schacht@labmark.com.au>
Sent: Tuesday, 6 June 2006 2:16 PM
Subject: Fw: Additional Analyses E026815

Jakleen ,

He wants these results by Friday. Can we do it?

gw
 Labmark Pty Ltd

Phone : (02) 9476 6533
 Fax : (02) 9476 8219
 website: www.labmark.com.au

Tray 522-528.

----- Original Message -----

From: Ben Pearce
To: Geoff Weir
Sent: Tuesday, June 06, 2006 2:12 PM
Subject: Additional Analyses E026815

Hi Geoff,

Could you please conduct the following additional analyses from Labmark Job No. E026815.

TCLP (Arsenic) – BH16_0.1-0.3	<i>143599</i> 26135	(30/5)
TCLP (Nickel) – BH11_0.05-0.15	26113	(30/5)
TCLP (Cadmium) – HA04_0.0-0.1	26108	(29/5)
TCLP (Lead) – HA05_0.0-0.1	26116	(29/5)

The purchase order number for this is 143599.

I require the results by 3pm, Friday 9th June 2006.

Thanks for your help.

Kind Regards,

Ben Pearce
 Environmental Scientist
 HLA-Envirosciences Pty Limited
 Level 5, 828 Pacific Hwy
 Gordon NSW 2072
 PO Box 726 Pymble NSW 2073 Australia
 T +61 2 8484 8999
 F +61 2 8484 8989
www.hla-enviro.com.au

*Received by
 R 6/6
 2:20pm.*

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Ros Schacht

From: "Simon Mills" <simon.mills@labmark.com.au>
To: <ros.schacht@labmark.com.au>
Sent: Tuesday, 6 June 2006 4:04 PM
Subject: Fw: Additional analyses

Do you anything about this (Simon Matthews?)

----- Original Message -----

From: Ben Pearce
To: simon.mills@labmark.com.au
Sent: Tuesday, June 06, 2006 3:48 PM
Subject: Additional analyses

Hi Simon,

Lab Id: 26108

As discussed, could you please analyse sample HA04_0.0-0.1 for Chromium (TCLP). Labmark job reference number – E026815.

Kind Regards

Ben Pearce
Environmental Scientist
HLA-Envirosciences Pty Limited
Level 5, 828 Pacific Hwy
Gordon NSW 2072
PO Box 726 Pymble NSW 2073 Australia
T +61 2 8484 8999
F +61 2 8484 8989
www.hla-enviro.com.au

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Received by
K 7/6/06
7:30am



Quality, Service, Support

Report Date : 1/06/2006
Report Time : 3:49:50PM

Sample Receipt Notice (SRN) for E026815



Client Details		Laboratory Reference Information	
Client Name: HLA - Envirosiences Pty Limited Client Phone: 02 8484 8999 Client Fax: 02 8484 8989 Contact Name: Ben Pearce Contact Email: bpearce@hla-enviro.com.au Client Address: PO Box 726 Pymble NSW 2073 Project Name: MM Group North Ryde Project Number: S4062801 CoC Number: - Not provided - Purchase Order: 143588 Surcharge: No surcharge applied (results by 6:30pm on due date) Sample Matrix: OTHER & SOIL & WATER		Please have this information ready when contacting Labmark. Laboratory Report: E026815 Quotation Number: - Not provided, standard prices apply Laboratory Address: Unit 1, 8 Leighton Pl. Asquith NSW 2077 Phone: 61 2 9476 6533 Fax: 61 2 9476 8219 Sample Receipt Contact: Ros Schacht Email: ros.schacht@labmark.com.au Reporting Contact: Jyothi Lal Email: jyothi.lal@labmark.com.au	
Date Sampled (earliest date): 29/05/2006 Date Samples Received: 31/05/2006 Date Sample Receipt Notice issued: 01/06/2006 Date Preliminary Report Due: 05/06/2006		NATA Accreditation: 13542 TGA GMP License: 185-336 (Sydney) APVMA License: 6105 (Sydney) AQIS Approval: NO356 (Sydney) AQIS Entry Permit: 200409998 (Sydney)	

Sample Condition:

COC received with samples. Report number and lab ID's defined on COC.
Samples received in good order .
Samples received with cooling media: Crushed ice .
Samples received chilled.
Security seals not required. Direct Labmark's custody taken .
Sample container & sample integrity suitable .

Comments:

COC analysis request arrived at 16:32 on 31 May 06. Asbestos subcontracted to ASET.

Holding Times:

Date received allows for sufficient time to meet Technical Holding Times.

Preservation:

Chemical preservation of samples satisfactory for requested analytes.

Important Notes:

Sample disposal of environmental samples shall be 31 days (water) and 3 months (soil, HN03 preserved samples) after laboratory receipt, unless otherwise requested in writing by the client. Samples requested to be held in non-refrigerated storage shall incur \$5.00/ sample/ 3 months. Additional refrigerated storage shall incur \$20/ sample/ 3 months. Combination prices apply only if requested. Transfer of report ownership from LabMark to the client shall occur once full and final payment has been settled and verified. All report copies may be retracted where full payment does not occur within the agreed settlement period.

Analysis comments:

VOC E010.2: Dichloromethane not reported unless requested.

Subcontracted Analyses:

Reported by Aust. Safer Env & Tech., NATA accreditation No. 14484

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Quality, Service, Support

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26065	29/05	0.05-0.2	BH01				●				●	●								●				
26066	29/05	0.4-0.6	BH01					●																
26067	29/05	1.0-1.2	BH01					●																
26068	29/05	2.0-2.2	BH01					●																
26069	29/05	2.7-2.8	BH01					●																
26070	29/05	0.05-0.15	BH02				●				●	●								●				
26071	29/05	0.4-0.5	BH02				●				●	●								●				
26072	29/05	1.0-1.1	BH02					●																
26073	29/05	0.15-0.25	BH03				●				●	●								●				
26074	29/05	0.3-0.5	BH03					●																
26075	29/05	0.05-0.15	BH04	●			●				●	●	●	●	●		●	●		●		●		
26076	29/05	0.2-0.3	BH04					●																
26077	29/05	0.4-0.5	BH04					●																
26078	29/05	0.8-1.0	BH04				●				●	●							●					
26079	29/05	1.9-2.0	BH04					●																
26080	29/05	2.9-3.0	BH04					●																
26081	29/05	0.05-0.15	BH05				●				●	●								●				
26082	29/05	0.4-0.5	BH05					●																
26083	29/05	0.6-0.8	BH05					●																
26084	29/05	1.2-1.3	BH05					●																
26085	29/05	0.05-0.15	BH06	●			●				●	●			●		●	●		●		●		
26086	29/05	0.4-0.5	BH06					●																
26087	29/05	0.6-0.7	BH06					●																
26088	29/05	1.0-1.1	BH06	●			●				●	●			●		●	●		●		●		
26089	29/05	0.15-0.3	BH07	●			●				●	●							●		●			
26090	29/05	0.6-0.75	BH07					●																
26091	29/05	0.16-0.25	BH08	●			●				●	●					●	●		●		●		●
26092	29/05	0.6-0.8	BH08	●			●				●	●							●		●			
26093	29/05	1.3-1.4	BH08					●																
26094	29/05	1.9-2.0	BH08					●																
26095	29/05	2.9-3.0	BH08					●																
26096	29/05	0.17-0.3	BH09	●			●				●	●	●				●	●		●		●		●

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No.	Date	Depth	Client Sample ID																								
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26097	29/05	0.4-0.6	BH09																								
26098	29/05	1.2-1.3	BH09																								
26099	29/05	0.16-0.3	BH10																								
26100	29/05	0.0-0.1	HA01																								
26101	29/05	0.5-0.6	HA01																								
26102	29/05	0.0-0.1	HA02																								
26103	29/05	0.3-0.4	HA02																								
26104	29/05	0.5-0.6	HA02																								
26105	29/05	0.1-0.2	HA03																								
26106	29/05	0.2-0.3	HA03																								
26107	29/05	0.4-0.5	HA03																								
26108	29/05	0.0-0.1	HA04																								
26109	29/05	0.45-0.5	HA04																								
26110	29/05	0.0-0.1	HA05																								
26111	29/05	0.4-0.5	HA05																								
26112	29/05		QW01																								
26113	30/05	0.05-0.15	BH11																								
26114	30/05	0.4-0.5	BH11																								
26115	30/05	0.6-0.8	BH11																								
26116	30/05	1.9-2.0	BH11																								
26117	30/05	2.9-3.0	BH11																								
26118	30/05	3.9-4.0	BH11																								
26119	30/05	4.9-5.0	BH11																								
26120	30/05	0.0-0.3	BH12																								
26121	30/05	0.6-0.8	BH12																								
26122	30/05	1.3-1.4	BH12																								
26123	30/05	1.6-1.7	BH12																								
26124	30/05	0.0-0.1	BH13																								
26125	30/05	0.5-0.6	BH13																								
26126	30/05	0.05-0.25	BH14																								
26127	30/05	0.6-0.8	BH14																								
26128	30/05	1.3-1.5	BH14																								

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Additional information on www.labmark.com.au



Quality, Service, Support

Report Date : 1/06/2006
Report Time : 3:49:50PM

Sample Receipt Notice (SRN) for E026815



The table below represents LabMark's understanding and interpretation of the customer supplied sample COC request. Please confirm that your COC request has been entered correctly. Due to THT and TAT requirements, testing shall commence immediately as per this table, unless the customer intervenes with a correction prior to testing.

GRID REVIEW TABLE				Requested Analysis																			
No.	Date	Depth	Client Sample ID																				
				BTEX by P&T	BTEX by P&T	Filtered mercury	Acid extractable mercury	ON HOLD ON HOLD	Filtered metals (M7)	Acid extractable metals (M7)	Moisture	Organochlorine Pesticides (OC)	Organophosphorus Pesticides	Polyaromatic Hydrocarbons (PAH)	Polyaromatic Hydrocarbons (PAH)	Polychlorinated Biphenyls (PCB)	pH in soil	PREP Not Reported	PREP Not Reported	PREP Not Reported	Petroleum Hydrocarbons (TPH)	Petroleum Hydrocarbons (TPH)	Volatile Halogenated Compounds (VHC)
26129	30/05	1.9-2.0	BH14					●															
26130	30/05	2.9-3.0	BH14					●															
26131	30/05	3.9-4.0	BH14					●															
26132	30/05	0.15-0.35	BH15	●			●			●	●							●			●		
26133	30/05	0.6-0.8	BH15				●			●	●							●					
26134	30/05	1.0-1.2	BH15					●															
26135	30/05	0.1-0.3	BH16				●			●	●							●					
26136	30/05	0.6-0.8	BH16	●							●							●			●		
26137	30/05	1.9-2.0	BH16	●			●			●	●			●				●			●		
26138	30/05	2.9-3.0	BH16	●			●			●	●			●				●			●		
26139	30/05	0.17-0.3	BH17	●			●			●	●			●			●			●			
26140	30/05	0.4-0.6	BH17				●			●	●							●					
26141	30/05	1.0-1.2	BH17					●															
26142	30/05		DUP01					●															
26143	30/05		DUP02				●			●	●							●					
26144	30/05		DUP03				●			●	●	●	●	●		●		●					
26145	30/05		DUP04	●			●			●	●			●				●			●		
26146	30/05		DUP05					●															
26147	30/05		BIT01								●			●				●					
26148	30/05		BIT02								●			●				●					
26149	30/05		SS01								●							●					
26150	30/05		MS01														●						
26186	29/05	0.6-0.8	BH06					●															
26187	29/05	0.4-0.5	HA01					●															
26188	29/05	0.5	HA04					●															
26189	30/05	1.4-1.5	BH12					●															
Totals:				17	1	1	36	48	1	36	40	9	8	15	1	10	7	1	40	1	17	1	2

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Quality, Service, Support

Report Date : 1/06/2006
Report Time : 3:49:50PM

Sample Receipt Notice (SRN) for E026815



The table below represents LabMark's understanding and interpretation of the customer supplied sample COC request. Please confirm that your COC request has been entered correctly. Due to THT and TAT requirements, testing shall commence immediately as per this table, unless the customer intervenes with a correction prior to testing.

GRID REVIEW TABLE				Requested Analysis																
No.	Date	Depth	Client Sample ID	Volatlie TPH by P&T (VTPH)	Volatlie TPH by P&T (VTPH)	External Not reported	External Not reported													
26075	29/05	0.05-0.15	BH04	●																
26085	29/05	0.05-0.15	BH06	●																
26088	29/05	1.0-1.1	BH06	●																
26089	29/05	0.15-0.3	BH07	●																
26091	29/05	0.16-0.25	BH08	●																
26092	29/05	0.6-0.8	BH08	●																
26096	29/05	0.17-0.3	BH09	●																
26101	29/05	0.5-0.6	HA01	●																
26104	29/05	0.5-0.6	HA02	●			●													
26112	29/05		QW01		●															
26124	30/05	0.0-0.1	BH13	●																
26126	30/05	0.05-0.25	BH14	●																
26132	30/05	0.15-0.35	BH15	●																
26136	30/05	0.6-0.8	BH16	●																
26137	30/05	1.9-2.0	BH16	●																
26138	30/05	2.9-3.0	BH16	●																
26139	30/05	0.17-0.3	BH17	●																
26145	30/05		DUP04	●																
26149	30/05		SS01				●													
26150	30/05		MS01			●														
Totals:				17	1	1	2													

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Quality, Service, Support

Report Date : 1/06/2006
Report Time : 3:49:50PM

Sample Receipt Notice (SRN) for E026815



				Requested Analysis															
				M8 - M7-F_W	M8 - M7-T_S														
No.	Date	Depth	Client Sample ID																
26065	29/05	0.05-0.2	BH01		●														
26070	29/05	0.05-0.15	BH02		●														
26071	29/05	0.4-0.5	BH02		●														
26073	29/05	0.15-0.25	BH03		●														
26075	29/05	0.05-0.15	BH04		●														
26078	29/05	0.8-1.0	BH04		●														
26081	29/05	0.05-0.15	BH05		●														
26085	29/05	0.05-0.15	BH06		●														
26088	29/05	1.0-1.1	BH06		●														
26089	29/05	0.15-0.3	BH07		●														
26091	29/05	0.16-0.25	BH08		●														
26092	29/05	0.6-0.8	BH08		●														
26096	29/05	0.17-0.3	BH09		●														
26099	29/05	0.16-0.3	BH10		●														
26100	29/05	0.0-0.1	HA01		●														
26101	29/05	0.5-0.6	HA01		●														
26102	29/05	0.0-0.1	HA02		●														
26104	29/05	0.5-0.6	HA02		●														
26108	29/05	0.0-0.1	HA04		●														
26110	29/05	0.0-0.1	HA05		●														
26112	29/05		QW01	●															
26113	30/05	0.05-0.15	BH11		●														
26115	30/05	0.6-0.8	BH11		●														
26120	30/05	0.0-0.3	BH12		●														
26124	30/05	0.0-0.1	BH13		●														
26125	30/05	0.5-0.6	BH13		●														
26126	30/05	0.05-0.25	BH14		●														
26132	30/05	0.15-0.35	BH15		●														
26133	30/05	0.6-0.8	BH15		●														
26135	30/05	0.1-0.3	BH16		●														
26137	30/05	1.9-2.0	BH16		●														
26138	30/05	2.9-3.0	BH16		●														
26139	30/05	0.17-0.3	BH17		●														

Thank you for choosing Labmark to analyse your project samples.
Additional information on www.labmark.com.au



Quality, Service, Support

Report Date : 1/06/2006
Report Time : 3:49:50PM

Sample
Receipt
Notice (SRN) for E026815



				Requested Analysis																
				M8 - M7-F_W	M8 - M7-T_S															
No.	Date	Depth	Client Sample ID																	
26140	30/05	0.4-0.6	BH17		●															
26143	30/05		DUP02		●															
26144	30/05		DUP03		●															
26145	30/05		DUP04		●															
Totals:				1	36															

Thank you for choosing Labmark to analyse your project samples.
Additional information on www.labmark.com.au

HLA - Envirosciences Pty Limited - Sydney

Level 5, 828 Pacific Hwy

PO Box 726 Pymble NSW 2073

Gordon NSW 2072 Australia

Tel: 61 2 8484 8999

Fax: 61 2 8484 8988

E-mail: mail@syd.hla-enviro.com.au

Laboratory Details

Lab Name: Labmark

Lab Address: Unit 8, Centurion Place

Contact Name: Geoff Wier

Lab. Ref:

Tel: 9476 6533

Fax: 9476 8219

Preliminary Report by: 516106

Final Report by: 516106

Lab Quote No:

Sampled By: Ban Pearce

HLA Project No: 54062801

Project Name: MM Group North Ryde

PO No: 143588

Specifications:

1. Urgent TAT required? (please circle: 24hr ~~24hr~~ 3 days) as per email to Geoff Wier

2. Fast TAT Guarantee Required?

3. Is any sediment layer present in waters to be excluded from extractions?

4. % extraneous material removed from samples to be reported as per NEPM 5.1.1?

5. Special storage requirements? (details:)

6. Shell Quality Partnership:

7. Report Format: ☐ Fax ☐ Handcopy ☒ Email: bpearce@hla-enviro.com.au

Yes (tick)

Analysis Request

Other

Lab. ID	Sample ID	Sampling Date	Matrix			Preservation				Container (No. & type)	BTEX	Metals	PAH's	OCF	OPP	PCB	SVOC	VOC	TPH	Lead	TCLP	TCLP	Pheno	VHC	Speciat	H01	H02	H03	H04
			soil	water	other	filled	acid	ice	other																				
26065	BH01-0.05-0.2	29/5/06	✓					✓			✓															✓			
26066	BH01-0.4-0.6		✓					✓																		✓			
26067	BH01-1.0-1.2		✓					✓																		✓			
26068	BH01-2.0-2.2		✓					✓																		✓			
26069	BH01-2.7-2.8		✓					✓																		✓			
26070	BH02-0.05-0.15		✓					✓			✓															✓			
26071	BH02-0.4-0.5		✓					✓			✓															✓			
26072	BH02-1.0-1.1		✓					✓																		✓			
26073	BH03-0.15-0.25		✓					✓			✓															✓			
26074	BH03-0.5-0.5		✓					✓																		✓			
26075	BH04-0.05-0.15		✓					✓			✓	✓	✓	✓	✓	✓										✓			✓
26076	BH04-0.2-0.3		✓					✓																		✓			
26077	BH04-0.4-0.5	✓	✓					✓																		✓			

* Metals Required (Delete elements not required): As Cd Cr Cu Ni Pb Zn Hg

Comments:

Lab Report No:

Entry ID

E026815

Relinquished by:

Signed:

Date:

Relinquished by:

Signed:

Date: 31/5

Received by:

Signed:

Date:

Received by:

Signed:

Date:

HLA - Envirosciences Pty Limited - Sydney

Level 5, 828 Pacific Hwy

PO Box 726 Pyrmble NSW 2073

Gordon NSW 2072 Australia

Tel: 61 2 8484 8999

Fax: 61 2 8484 8989

E-mail: mail@syd.hla-enviro.com.au

Laboratory Details

Lab Name: *Laymark*

Lab Address:

Contact Name:

Lab. Ref:

Tel:

Fax:

Preliminary Report by:

Final Report by:

Lab Quote No:

Sampled By: *Ben Pearce*HLA Project No: *34062801*

Project Name:

PO No.

Specifications:

1. Urgent TAT required? (please circle: 24hr 48hr _____ days)

2. Fast TAT Guarantee Required?

3. Is any sediment layer present in waters to be excluded from extractions?

4. % extraneous material removed from samples to be reported as per NEPM 5.1.1?

5. Special storage requirements? (details: _____)

6. Shell Quality Partnership:

7. Report Format: ☐ Fax ☐ Hardcopy ☐ Email:

Yes (tick)

Analysis Request

Other

Lab. ID	Sample ID	Sampling Date	Matrix			Preservation				Container (No. & type)	BTEX + TPH	Metals*	PAH's	OCP	OPP	PCB	SVOC	VOC	TPH	Lead	TCLP Heavy Metals	TCLP PAH's	Phenols	VHC	Speciated TPH	Other	
			soil	water	other	filled	acid	ice	other																	Other	
26078	BH04-0.8-1.0	29/5/06	✓					✓				✓															
26079	BH04-1.9-2.0		✓					✓																			
26080	BH04-2.9-3.0		✓					✓																			
26081	BH05-0.05-0.15		✓					✓				✓															
26082	BH05-0.4-0.5		✓					✓																			
26083	BH05-0.6-0.8		✓					✓																			
26084	BH05-1.2-1.3		✓					✓																			
26085	BH06-0.05-0.15		✓					✓				✓	✓														
26086	BH06-0.4-0.5		✓					✓																			
26087	BH06-0.6-0.7		✓					✓																			
26088	BH06-1.0-1.1		✓					✓				✓	✓			✓											
26089	BH07-0.15-0.3		✓					✓				✓	✓														
26090	BH07-0.6-0.75		✓					✓																			

* Metals Required (Delete elements not required):

As Cd Cr Cu Ni Pb Zn Hg

Comments:

Lab Report No.

PC26815

Entry ID

Relinquished by:

Signed:

Date:

Relinquished by:

Signed: *SD*Date: *31/5*

Received by:

Signed:

Date:

Received by:

Signed:

Date:

HLA - Envirosciences Pty Limited - Sydney

Level 5, 828 Pacific Hwy

PO Box 726 Pymble NSW 2073

Gordon NSW 2072 Australia

Tel: 61 2 8484 8999

Fax: 61 2 8484 8999

E-mail: mail@syd.hla-enviro.com.au

Laboratory Details

Lab Name:

Lab Address:

Contact Name:

Lab. Ref:

Tel:

Fax:

Preliminary Report by:

Final Report by:

Lab Quote No:

Sampled By: Ben PenceHLA Project No: 64062801

Project Name:

PO No:

Specifications:

1. Urgent TAT required? (please circle: 24hr 48hr _____ days)

2. Fast TAT Guarantee Required?

3. Is any sediment layer present in waters to be excluded from extractions?

4. % extraneous material removed from samples to be reported as per NEPM 5.1.1?

5. Special storage requirements? (details: _____)

6. Shell Quality Partnership:

7. Report Format: ☐ Fax ☐ Hardcopy ☐ Email: _____

Yes (tick)

Analysis Request

Other

Report Format		Fax		Hardcopy		Email																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												</	
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* Metals Required (Delete elements not required):

As Cd Cr Cu Ni Pb Zn Hg

Comments:

Lab Report No. E026815

Entry ID

Relinquished by:

Signed:

Date:

Relinquished by:

Signed: SADate: 31/5

Received by:

Signed:

Date:

Received by:

Signed:

Date:

HLA - Envirosciences Pty Limited - Sydney

Level 5, 828 Pacific Hwy

PO Box 726 Pymble NSW 2073

Gordon NSW 2072 Australia

Tel: 61 2 8484 8999

Fax: 61 2 8484 8989

E-mail: mail@syd.hla-enviro.com.au

Laboratory Details

Lab Name:

Lab Address:

Contact Name:

Lab. Ref:

Tel:

Fax:

Preliminary Report by:

Final Report by:

Lab Quote No:

Sampled By: Ben PearceHLA Project No: 54062801

Project Name:

PO No.

Specifications:

Yes (tick)

1. Urgent TAT required? (please circle: 24hr 48hr _____ days)

2. Fast TAT Guarantee Required?

3. Is any sediment layer present in waters to be excluded from extractions?

4. % extraneous material removed from samples to be reported as per NEPM 5.1.12

5. Special storage requirements? (details: _____)

6. Shell Quality Partnership:

7. Report Format: ☐ Fax ☐ Hardcopy ☐ Email: _____

Analysis Request

Other

Lab. ID	Sample ID	Sampling Date	Matrix			Preservation				Container (No. & type)	BTEX	Metals	PAH's	OCP	OPP	PCB	SVOC	VOC	TPH	Lead	TCLP	TCLP	Phenol	VHC	Speciat	HOC	Asht	
			soil	water	other	fil'd	acid	ice	other																			
26104	HA02-0.5-0.6	29/5/06	✓					✓			✓	✓	✓	✓	✓	✓										✓	✓	
26105	HA03-0.1-0.2		✓					✓																		✓		
26106	HA03-0.2-0.3		✓					✓																		✓		
26107	HA03-0.4-0.5		✓					✓																		✓		
26108	HA04-0.0-0.1		✓					✓				✓		✓	✓	✓										✓		
26109	HA04-0.45-0.5		✓					✓																		✓		
26110	HA05-0.0-0.1		✓					✓				✓		✓	✓	✓												
26111	HA05-0.4-0.5	↓	✓					✓																				
26112	QW01	↓		✓				✓			✓	✓	✓															
26113	BH10-0.5-0.15	30/5/06	✓					✓				✓	✓															
26114	BH11-0.4-0.5	↓	✓					✓																		✓		
26115	BH11-0.6-0.8	↓	✓					✓				✓																

* Metals Required (Delete elements not required):

As Cd Cr Cu Ni Pb Zn Hg

Comments:

Lab Report No.

E026815

Entry ID

Relinquished by:

Signed:

Date:

Relinquished by:

Signed:

Date:

Received by:

Signed:

Date:

Received by:

Signed:

Date: 3/1/5

HLA

CHAIN OF CUSTODY

HLA - Envirosciences Pty Limited - Sydney

Level 5, 828 Pacific Hwy

PO Box 728 Pymble NSW 2073

Gordon NSW 2072 Australia

Tel: 61 2 8484 8999

Fax: 61 2 8484 8989

E-mail: mail@ayd.hla-enviro.com.au

Laboratory Details

Lab Name:

Lab Address:

Contact Name:

Lab. Ref:

Tel:

Fax:

Preliminary Report by:

Final Report by:

Lab Quote No:

Sampled By: Ben PearceHLA Project No: 54062801

Project Name:

PO No:

Specifications:

Yes (tick)

1. Urgent TAT required? (please circle: 24hr 48hr _____ days)

2. Fast TAT Guarantee Required?

3. Is any sediment layer present in waters to be excluded from extractions?

4. % extraneous material removed from samples to be reported as per NEPM 5.1.1?

5. Special storage requirements? (details: _____)

6. Shelf Quality Partnership:

7. Report Format: ☐ Fax ☐ Hardcopy ☐ Email:

Analysis Request

Other

7. Report Format: ☐ Fax ☐ Hardcopy ☐ Email ☐																															
Lab. ID	Sample ID	Sampling Date	Matrix			Preservation					Container (No. & type)	BTEX	Metals	PAH's	OC	OPP	PCB	SVOC	VOC	TPH	Lead	TCLP	TCLP	Pheno	VHC	Speciat	HOL	pH			
			soil	water	other	filled	acid	ice	other																						
26116	BH11-14-2.0	30/5/06	✓						✓																		✓	✓			
26117	BH11 BH11-24-3.0		✓						✓																		✓	✓			
26118	BH11-34-4.0		✓						✓																		✓	✓			
26119	BH11-44-5.0		✓						✓																		✓	✓			
26120	BH2-0.0-0.3		✓						✓				✓		✓	✓	✓														
26121	BH2-0.6-0.8		✓						✓																		✓	✓			
26122	BH2-1.3-1.4		✓						✓																		✓	✓			
26123	BH2-1.6-1.7		✓						✓																		✓	✓			
26124	BH3-0.0-0.1		✓						✓				✓	✓	✓	✓	✓													✓	
26125	BH3-0.5-0.6		✓						✓				✓																		
26126	BH4-0.05-0.25		✓						✓				✓	✓	✓																
26127	BH4-0.6-0.8		✓						✓																				✓		
26128	BH4-1.3-1.5	↓	✓						✓																						
Lab Report No. _____ Entry ID _____																															

* Metals Required (Delete elements not required):

As Cd Cr Cu Ni Pb Zn Hg

Comments:

Lab Report No: 2026815

Entry ID:

Relinquished by:

Signed:

Date:

Relinquished by:

Signed:

Date:

Received by:

Signed:

Date:

Received by:

Signed: [Signature]Date: 5/15

HLA - Envirosciences Pty Limited - Sydney

Level 5, 828 Pacific Hwy

PO Box 726 Pymble NSW 2073

Gordon NSW 2072 Australia

Tel: 61 2 8484 8999

Fax: 61 2 8484 8988

E-mail: mail@syd.hla-enviro.com.au

Laboratory Details

Lab Name:

Lab Address:

Contact Name:

Lab. Ref:

Tel:

Fax:

Preliminary Report by:

Final Report by:

Lab Quote No:

Sampled By: Ben Pearce

HLA Project No: 54062801

Project Name:

PO No.

Specifications:

1. Urgent TAT required? (please circle: 24hr 48hr _____ days)

2. Fast TAT Guarantee Required?

3. Is any sediment layer present in waters to be excluded from extractions?

4. % extraneous material removed from samples to be reported as per NEPM 5.1.17

5. Special storage requirements? (details: _____)

6. Shell Quality Partnership:

7. Report Format: ☐ Fax ☐ Hardcopy ☐ Email:

Yes (tick)

Analysis Request

Other

Lab. ID	Sample ID	Sampling Date	Matrix			Preservation				Container (No. & type)	BTEX	Metals	PAH's	OCP	OPP	PCB	SVOC	VOC	TPH	Lead	TCLP	TCLP	Phenols	VHC	Speciation	Hou	pH	
			soil	water	other	filled	acid	ice	other																			
26129	BH14-14-2.0	30/5/06	✓						✓																	✓		
26130	BH14-29-3.0		✓						✓																	✓		
26131	BH14-39-4.0		✓						✓																	✓		
26132	BH15-015-0.35		✓						✓		✓	✓																
26133	BH15-06-0.8		✓						✓			✓																
26134	BH15-10-1.2		✓						✓																	✓		
26135	BH16-011-0.3		✓						✓			✓																
26136	BH16-06-0.8		✓						✓		✓																	
26137	BH16-19-2.0		✓						✓		✓	✓	✓															
26138	BH16-29-3.0		✓						✓		✓	✓	✓															
26139	BH17-017-0.3		✓						✓		✓	✓	✓														✓	
26140	BH17-014-0.6		✓						✓			✓																
26141	BH17-10-1.2	✓	✓						✓																	✓		

* Metals Required (Delete if metals not required):

As Cd Cr Cu Ni Pb Zn Hg

Comments:

Lab Report No.

Entry ID

EC26815

Relinquished by:

Signed:

Date:

Relinquished by:

Signed:

Date:

Received by:

Signed:

Date:

Received by:

Signed:

Date: 31/5

HLA - Envirosciences Pty Limited - Sydney

Level 5, 828 Pacific Hwy

PO Box 726 Pymble NSW 2073

Gordon NSW 2072 Australia

Tel: 61 2 8484 8999

Fax: 61 2 8484 8989

E-mail: mail@syd.hla-enviro.com.au

Laboratory Details

Lab Name:

Lab Address:

Contact Name:

Lab. Ref:

Tel:

Fax:

Preliminary Report by:

Final Report by:

Lab Quote No:

Sampled By: Ben Pearce

HLA Project No: 54062801

Project Name:

PO No:

Specifications:

Yes (tick)

1. Urgent TAT required? (please circle: 24hr 48hr _____ days)

2. Fast TAT Guarantee Required?

3. Is any sediment layer present in waters to be excluded from extractions?

4. % extraneous material removed from samples to be reported as per NEPM 5.1.1?

5. Special storage requirements? (details: _____)

6. Shell Quality Partnership:

7. Report Format: ☐ Fax ☐ Hardcopy ☐ Email:

Analysis Request

Other

Lab. ID	Sample ID	Sampling Date	Matrix			Preservation				Container (No. & type)	BTEX	Metals	PAH's	OCP	OPP	PCB	SVOC	VOC	TPH	Lead	TCLP	TCLP	Phenols	VHC	Speciat	HCL	PBB		
			soil	water	other	filled	acid	ice	other																				
26142.	DUP01	30/5/06	✓					✓																		✓			
26143.	DUP02	↓	✓					✓				✓																	
26144	DUP03	↓	✓					✓				✓	✓	✓	✓	✓													
26145	DUP04	↓	✓					✓			✓	✓	✓																
26146	DUP05	↓	✓					✓																		✓			
26147	B1T01	↓	✓					✓					✓																
26148	B1T02	↓	✓					✓					✓																
26150	MS01	↓			✓			✓																		✓			
26149	SS01	↓	✓					✓																		✓			
26186	BH06-06-0.8	29/5/06	✓																							✓			
26187	HA01-04-0.5	29/5/06	✓																							✓			
26188	HA04-0.5	29/5/06	✓																							✓			
26189	BH12-1.4-1.5	30/5/06	✓																							✓			

* Metals Required (Delete elements not required):

As Cd Cr Cu Ni Pb Zn Hg

Comments: 4 samples added as HOLD at client request

Lab Report No:

Entry ID

EC26815

Relinquished by:

Signed:

Date:

Relinquished by:

Signed: SK

Date: 21/5

Received by:

Signed:

Date:

Received by:

Signed:

Date: 4:32pm

Ros Schacht

From: "Geoff Weir" <geoff.weir@labmark.com.au>
To: "Ros Schacht" <ros.schacht@labmark.com.au>
Sent: Thursday, 1 June 2006 7:47 AM
Subject: Fw: Additional analysis (S4062801)

Labmark Pty Ltd

Phone : (02) 9476 6533
 Fax : (02) 9476 8219
 website: www.labmark.com.au

----- Original Message -----

From: Ben Pearce
To: Geoff Weir
Sent: Wednesday, May 31, 2006 5:50 PM
Subject: Additional analysis (S4062801)

Job No.
E026815

Hi Geoff,

Could you please conduct the following additional analyses on the samples submitted today (HLA project S4062801 – MM Group North Ryde).

BH08_0.16-0.25 – VHCs

And

BH09_0.17-0.3 – VHCs

Kind Regards

Ben Pearce
 Environmental Scientist
 HLA-Envirosciences Pty Limited
 Level 5, 828 Pacific Hwy
 Gordon NSW 2072
 PO Box 726 Pymble NSW 2073 Australia
 T +61 2 8484 8999
 F +61 2 8484 8989
www.hla-enviro.com.au

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Received by
JE 01/06/06.
7:50am

15:45pm



ALS Environmental

SAMPLE RECEIPT NOTIFICATION (SRN)

Comprehensive report

Client Details

Client : HLA-ENVIROSCIENCES PTY LTD
Contact : MR BEN PEARCE
Address : P O BOX 726 PYMBLE NSW AUSTRALIA 2073

Project : S4062801
Order number : 143589
C-O-C Number : - Not provided -
Site : MN GROUP NTH RYD
Sampler : BP

E-mail : bpearce@hla-enviro.com.au
Telephone : 02 8484 8999
Facsimile : 02 8484 8989

Laboratory Details

Laboratory : ALS Environmental Sydney
Manager : Greg Vogel
Address : 277-289 Woodpark Road Smithfield NSW Australia 2164

Quote number : ES20050036
Work order : ES0606610

E-mail : Greg.Vogel@alsenviro.com
Telephone : 61-2-87848555
Facsimile : 61-2-87848500

Dates

Date Samples Received : 31 May 2006
SRA Issue Date : 31 May 2006
Scheduled Reporting Date : **5 Jun 2006**

Delivery Details

Mode of Delivery	: Carrier.	Temperature	: CHILLED - Ice present
No. of coolers/boxes	: 1 HARD	No. of samples - Received	2
Security Seal	: Intact.	- Analysed	2

Comments

- 1 Samples received in appropriately pretreated and preserved containers.
 - 1 Sample(s) have been received within recommended holding times.
 - 1 Sample(s) requiring volatile organic compound analysis received in airtight containers (ZHE).
-
- 1 Analytical work for this work order will be conducted at ALSE Sydney.
 - 1 Sample Disposal - Aqueous (14 days), Solid (90 days) from date of completion of work order.
 - 1 Please direct any queries related to sample condition / numbering / breakages to Nazeeh Aoun.
 - 1 Please direct any turn around / technical queries to the laboratory contact designated above.
 - 1 When the sampling time is not supplied on the COC documentation, ALSE defaults the sampling time to that of the COC 'relinquishment' time (if supplied). If this also is not supplied, ALSE defaults the sampling time to the 'time of receipt at Laboratory'.

Disclaimer : This document contains privileged and confidential information intended only for the use of the addressee. If you are not the addressee, you are hereby notified that you must not disseminate, copy or take action of its contents. If you have received this document in error, please notify ALS immediately.

SAMPLE RECEIPT NOTIFICATION (SRN) - continued

Client : HLA-ENVIROSCIENCES PTY LTD
Project : S4062801

Work Order : ES0606610
ALS Quote Reference : ES20050036



Summary of Sample(s) / Container(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as moisture and preparation tasks, that form an implicit part of that package.

ALS Sample ID.	Client Sample ID - Sample Date	Requested Analysis							
		S-02 - SOIL 8 Metals (incl. Digestion)	S-07 - SOIL TPH/BTEX/PAH (SIM)	S-16 - SOIL TPH/BTX/PAH/OC/OP/PCB/8Metals					
ES0606610-001	TRIP 02 - 30 May 2006	1	1						
ES0606610-002	TRIP 03 - 30 May 2006			1					
Total(s) :		1	1	1					

SAMPLE RECEIPT NOTIFICATION (SRN) - continued

Client : HLA-ENVIROSCIENCES PTY LTD
Project : S4062801

Work Order : ES0606610
ALS Quote Reference : ES20050036



Requested Reports

1 MR BEN PEARCE

- A4 - Certificate of Analysis - NEPM format	Email	bpearce@hla-enviro.com.au
- A4 - Quality Control Report - NEPM format	Email	bpearce@hla-enviro.com.au
- A4 - Interpretive Quality Control Report - NEPM format	Email	bpearce@hla-enviro.com.au
- ENMRG Export Format	Email	bpearce@hla-enviro.com.au
- ESDAT Export Format	Email	bpearce@hla-enviro.com.au
- Chain of Custody Acknowledgement	Email	bpearce@hla-enviro.com.au
- A4 - Sample Receipt Notification - Comprehensive format	Email	bpearce@hla-enviro.com.au
- Invoice	Email	bpearce@hla-enviro.com.au

1 THE RESULTS ADDRESS

- A4 - Certificate of Analysis - NEPM format	Email	syd.als@hla-enviro.com.au
- A4 - Quality Control Report - NEPM format	Email	syd.als@hla-enviro.com.au
- A4 - Interpretive Quality Control Report - NEPM format	Email	syd.als@hla-enviro.com.au
- ENMRG Export Format	Email	syd.als@hla-enviro.com.au
- ESDAT Export Format	Email	syd.als@hla-enviro.com.au
- Chain of Custody Acknowledgement	Email	syd.als@hla-enviro.com.au
- A4 - Sample Receipt Notification - Comprehensive format	Email	syd.als@hla-enviro.com.au

Sample Container(s) / Preservation Non-Compliance Log

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

1 No sample container / preservation non-compliance exist.

INTERPRETIVE QUALITY CONTROL REPORT

Client	: HLA-ENVIROSCIENCES PTY LTD	Laboratory	: ALS Environmental Sydney	Page	: 1 of 5
Contact	: MR BEN PEARCE	Contact	: Greg Vogel		
Address	: P O BOX 726 PYMBLE NSW AUSTRALIA 2073	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164	Work order	: ES0606610
				Amendment No.	:
Project	: S4062801 MM Group North Ryde	Quote number	: EN/004/05	Date received	: 31 May 2006
Order number	: 143589			Date issued	: 6 Jun 2006
C-O-C number	: - Not provided -				
Site	: MN GROUP NTH RYD				
E-mail	: bpearce@hla-enviro.com.au	E-mail	: Greg.Vogel@alsenviro.com	No. of samples	
Telephone	: 02 8484 8999	Telephone	: 61-2-87848555	Received	: 2
Facsimile	: 02 8484 8989	Facsimile	: 61-2-87848500	Analysed	: 2

This Interpretive Quality Control Report was issued on 6 Jun 2006 for the ALS work order reference ES0606610 and supersedes any previous reports with this reference.

This report contains the following information:

- 1 Analysis Holding Time Compliance
- 1 Quality Control Type Frequency Compliance
- 1 Summary of all Quality Control Outliers
- 1 Brief Method Summaries

Client : HLA-ENVIROSCIENCES PTY LTD
 Project : S4062801 MM Group North Ryde

Work Order : ES0606610
 ALS Quote Reference : EN/004/05

Page Number : 2 of 5
 Issue Date : 6 Jun 2006



Interpretive Quality Control Report - Analysis Holding Time

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 preclude subsequent dilutions and reruns. Information is also provided re the sample container (preservative) from which the sample aliquot was taken. Elapsed time to analysis represents time from sampling where no extraction / digestion is involved or time from extraction / digestion where this is present. For composite samples, sampling date/time is taken as that of the oldest sample contributing to that composite. Sample date/time for laboratory produced leaches are taken from the completion date/time of the leaching process. Outliers for holding time are based on USEPA SW846, APHA, AS and NEPM (1999). Failed outliers, refer to the 'Summary of Outliers'.

Matrix Type: SOIL

Analysis Holding Time and Preservation

Method	Date Sampled	Extraction / Preparation			Analysis		
Container / Client Sample ID(s)		Date extracted	Due for extraction	Pass?	Date analysed	Due for analysis	Pass?
EA055-103: Moisture Content							
Soil Glass Jar - Unpreserved TRIP 02, TRIP 03	30 May 2006	----	----	----	2 Jun 2006	6 Jun 2006	Pass
EG005T: Total Metals by ICP-AES							
Soil Glass Jar - Unpreserved TRIP 02, TRIP 03	30 May 2006	3 Jun 2006	26 Nov 2006	Pass	5 Jun 2006	26 Nov 2006	Pass
EG035T: Total Mercury by FIMS							
Soil Glass Jar - Unpreserved TRIP 02, TRIP 03	30 May 2006	3 Jun 2006	27 Jun 2006	Pass	5 Jun 2006	27 Jun 2006	Pass
EP066: Polychlorinated Biphenyls (PCB)							
Soil Glass Jar - Unpreserved TRIP 03	30 May 2006	1 Jun 2006	13 Jun 2006	Pass	2 Jun 2006	11 Jul 2006	Pass
EP068: Pesticides by GCMS							
Soil Glass Jar - Unpreserved TRIP 03	30 May 2006	1 Jun 2006	13 Jun 2006	Pass	2 Jun 2006	11 Jul 2006	Pass
EP071: TPH - Semivolatile Fraction							
Soil Glass Jar - Unpreserved TRIP 02, TRIP 03	30 May 2006	1 Jun 2006	13 Jun 2006	Pass	2 Jun 2006	11 Jul 2006	Pass
EP075(SIM): PAH/Phenols (SIM)							
Soil Glass Jar - Unpreserved TRIP 02, TRIP 03	30 May 2006	1 Jun 2006	13 Jun 2006	Pass	2 Jun 2006	11 Jul 2006	Pass
EP080: TPH Volatiles/BTEX							
Soil Glass Jar - Unpreserved TRIP 02, TRIP 03	30 May 2006	1 Jun 2006	13 Jun 2006	Pass	1 Jun 2006	13 Jun 2006	Pass

Client : HLA-ENVIROSCIENCES PTY LTD
Project : S4062801 MM Group North Ryde

Work Order : ES0606610
ALS Quote Reference : EN/004/05

Page Number : 3 of 5
Issue Date : 6 Jun 2006



Interpretive Quality Control Report - Frequency of Quality Control Samples

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which this work order was processed. Actual rate should be greater than or equal to the expected rate.

Matrix Type: SOIL **Frequency of Quality Control Samples**

Quality Control Sample Type	Count		Rate (%)		Quality Control Specification
Method	QC	Regular	Actual	Expected	
Laboratory Duplicates (DUP)					
EA055-103: Moisture Content	1	2	50.0	10.0	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
EG005T: Total Metals by ICP-AES	2	20	10.0	10.0	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
EG035T: Total Mercury by FIMS	1	10	10.0	10.0	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
EP066: Polychlorinated Biphenyls (PCB)	1	1	100.0	10.0	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
EP068: Pesticides by GCMS	1	2	50.0	10.0	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
EP071: TPH - Semivolatile Fraction	2	18	11.1	10.0	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
EP075(SIM): PAH/Phenols (SIM)	2	18	11.1	10.0	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
EP080: TPH Volatiles/BTEX	1	2	50.0	10.0	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
Laboratory Control Samples (LCS)					
EG005T: Total Metals by ICP-AES	1	20	5.0	5.0	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
EG035T: Total Mercury by FIMS	1	10	10.0	5.0	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
EP066: Polychlorinated Biphenyls (PCB)	1	1	100.0	5.0	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
EP068: Pesticides by GCMS	1	2	50.0	5.0	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
EP071: TPH - Semivolatile Fraction	1	18	5.6	5.0	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
EP075(SIM): PAH/Phenols (SIM)	1	18	5.6	5.0	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
EP080: TPH Volatiles/BTEX	1	2	50.0	5.0	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
Method Blanks (MB)					
EG005T: Total Metals by ICP-AES	1	20	5.0	5.0	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
EG035T: Total Mercury by FIMS	1	10	10.0	5.0	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
EP066: Polychlorinated Biphenyls (PCB)	1	1	100.0	5.0	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
EP068: Pesticides by GCMS	1	2	50.0	5.0	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
EP071: TPH - Semivolatile Fraction	1	18	5.6	5.0	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
EP075(SIM): PAH/Phenols (SIM)	1	18	5.6	5.0	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
EP080: TPH Volatiles/BTEX	1	2	50.0	5.0	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
Matrix Spikes (MS)					
EG005T: Total Metals by ICP-AES	1	20	5.0	5.0	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
EG035T: Total Mercury by FIMS	1	10	10.0	5.0	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
EP066: Polychlorinated Biphenyls (PCB)	1	1	100.0	5.0	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
EP068: Pesticides by GCMS	1	2	50.0	5.0	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
EP071: TPH - Semivolatile Fraction	1	18	5.6	5.0	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
EP075(SIM): PAH/Phenols (SIM)	1	18	5.6	5.0	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
EP080: TPH Volatiles/BTEX	1	2	50.0	5.0	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement

Client : HLA-ENVIROSCIENCES PTY LTD
Project : S4062801 MM Group North Ryde

Work Order : ES0606610
ALS Quote Reference : EN/004/05

Page Number : 4 of 5
Issue Date : 6 Jun 2006



Interpretive Quality Control Report - Summary of Outliers

Outliers : Quality Control Samples

The following report highlights outliers flagged on the 'Quality Control Report'. Surrogate recovery limits are static and based on USEPA SW846 or ALS-QWI/EN/38 (in the absence of specific USEPA limits). - Anonymous -
Client Sample IDs refer to samples which are not specifically part of this work order but formed part of the QC process lot.

Non-surrogates

ALS QC Lot	Matrix Type	Laboratory Sample ID	Client Sample ID	Analyte	Data	Limits	Comment
Laboratory Control Samples (LCS)							
EP068A: Organochlorine Pesticides (OC)	SOIL	240723-002	----	4,4'-DDD	71.8 %	72.4-109 %	Recovery less than lower control limit
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons	SOIL	240355-002	----	Naphthalene	105 %	87-103 %	Recovery greater than upper control limit
				Pyrene	105 %	75-105 %	Recovery greater than upper control limit
				Dibenz(a,h)anthracene	76.4 %	77-107 %	Recovery less than lower control limit

- 1 For all matrices, no RPD recovery outliers occur for the duplicate analysis.
- 1 For all matrices, no method blank result outliers occur.
- 1 For all matrices, no matrix spike recoveries breaches occur.

Surrogates

ALS QC Lot	Matrix Type	Laboratory Sample ID	Client Sample ID	Analyte	Data	Limits	Comment
Surrogates							
EP075(SIM)S: Phenolic Compound Surrogates	SOIL	ES0606610-001	TRIP 02	Phenol-d6	115 %	24-113 %	Recovery greater than upper data quality objective

Outliers : Analysis Holding Time

The following report highlights outliers within this 'Interpretive Quality Control Report - Analysis Holding Time'.

- 1 No holding time outliers occur.

Outliers : Frequency of Quality Control Samples

The following report highlights outliers within this 'Interpretive Quality Control Report - Frequency of Quality Control Samples'.

- 1 No frequency outliers occur.

Client : HLA-ENVIROSCIENCES PTY LTD
 Project : S4062801 MM Group North Ryde

Work Order : ES0606610
 ALS Quote Reference : EN/004/05

Page Number : 5 of 5
 Issue Date : 6 Jun 2006

Method Reference Summary

The analytical procedures used by ALS Environmental are based on established internationally-recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house procedure 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 herein. Reference methods from which ALSE methods are based are provided in parenthesis.

Matrix Type: SOIL

Method Reference Summary

Preparation Methods

EN69 : Hot Block Digest for metals in soils sediments and sludges - 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)

ORG16 : Methanolic Extraction of Soils for Purge and Trap - (USEPA SW 846 - 5030A) 5g of solid is shaken with surrogate and 10mL methanol prior to analysis by Purge and Trap - GC/MS.

ORG17A : Tumbler Extraction of Solids (Option A - Concentrating) - 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.

ORG17B : Tumbler Extraction of Solids (Option B - Non-concentrating) - 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.

Analytical Methods

EA055-103 : Moisture Content - A gravimetric procedure based on weight loss over a 12 hour drying period at 103-105 degrees C. This method is compliant with NEPM (1999) Schedule B(3) (Method 102)

EG005T : Total Metals by ICP-AES - (APHA 20th 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)

EG035T : Total Mercury by FIMS - AS 3550, APHA 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)

EP066 : Polychlorinated Biphenyls (PCB) - (USEPA SW 846 - 8270B) Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM (1999) Schedule B(3) (Method 504)

EP068 : Pesticides by GCMS - (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)

EP071 : TPH - Semivolatile Fraction - (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)

EP075(SIM) : PAH/Phenols (SIM) - (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)

EP080 : TPH Volatiles/BTEX - (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)



QUALITY CONTROL REPORT

Client	: HLA-ENVIROSCIENCES PTY LTD	Laboratory	: ALS Environmental Sydney	Page	: 1 of 14
Contact	: MR BEN PEARCE	Contact	: Greg Vogel		
Address	: P O BOX 726 PYMBLE NSW AUSTRALIA 2073	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164	Work order	: ES0606610
				Amendment No.	:
Project	: S4062801 MM Group North Ryde	Quote number	: EN/004/05	Date received	: 31 May 2006
Order number	: 143589			Date issued	: 6 Jun 2006
C-O-C number	: - Not provided -				
Site	: MN GROUP NTH RYD				
E-mail	: bpearce@hla-enviro.com.au	E-mail	: Greg.Vogel@alsenviro.com	No. of samples	
Telephone	: 02 8484 8999	Telephone	: 61-2-87848555	Received	: 2
Facsimile	: 02 8484 8989	Facsimile	: 61-2-87848500	Analysed	: 2

This final report for the ALSE work order reference ES0606610 supersedes any previous reports with this reference.

Results apply to the samples as submitted. All pages of this report have been checked and approved for release.

This report contains the following information:

- 1 Laboratory Duplicates (DUP); Relative Percentage Difference (RPD) and Acceptance Limits
- 1 Method Blank (MB) and Laboratory Control Samples (LCS); Recovery and Acceptance Limits
- 1 Matrix Spikes (MS); Recovery and Acceptance Limits

Work order specific comments

EP068, EP075(SIM): LCS recovery for various organic analytes fall outside ALS dynamic control limits, However they are within the acceptance criteria based on USEPA SW-846.

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Accredited for compliance with ISO/IEC 17025

This document has been digitally signed by those names that appear on this report and are the authorised signatories. Digital signing has been carried out in compliance with procedures specified in 21 CFR Part 11.

Signatory

Peter Dickenson
Rassem Ayoubi
Sarah Millington

Department

Inorganics - NATA 825 (10911 - Sydney)
Organics - NATA 825 (10911 - Sydney)
Inorganics - NATA 825 (10911 - Sydney)

Client : HLA-ENVIROSCIENCES PTY LTD
 Project : S4062801 MM Group North Ryde

Work Order : ES0606610
 ALS Quote Reference : EN/004/05

Page Number : 2 of 14
 Issue Date : 6 Jun 2006

Quality Control Report - Laboratory Duplicates (DUP)

The quality control term **Laboratory Duplicate** refers to an intralaboratory split sample randomly selected from the sample batch. Laboratory duplicates provide information on method precision and sample heterogeneity.
 - Anonymous - Client Sample IDs refer to samples which are not specifically part of this work order but formed part of the QC process lot. *Abbreviations: LOR = Limit of Reporting, RPD = Relative Percent Difference.*
 * Indicates failed QC. The permitted ranges for the RPD of Laboratory Duplicates (relative percent deviation) 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%

Matrix Type: SOIL Laboratory Duplicates (DUP) Report

Laboratory Sample ID	Client Sample ID	Analyte name	LOR	Original Result	Duplicate Result	RPD
EA055: Moisture Content						
EA055: Moisture Content - (QC Lot: 220228)				%	%	%
ES0606610-001	TRIP 02	Moisture Content (dried @ 103°C)	1.0 %	11.1	11.1	0.0
EG005T: Total Metals by ICP-AES						
EG005T: Total Metals by ICP-AES - (QC Lot: 220970)				mg/kg	mg/kg	%
ES0606534-037	Anonymous	Arsenic	5 mg/kg	6	9	44.9
		Cadmium	1 mg/kg	<1	<1	0.0
		Chromium	2 mg/kg	10	11	11.2
		Copper	5 mg/kg	31	29	6.8
		Lead	5 mg/kg	50	52	5.8
		Nickel	2 mg/kg	7	5	30.0
ES0606632-021	Anonymous	Zinc	5 mg/kg	49	52	6.2
		Arsenic	5 mg/kg	9	8	0.0
		Cadmium	1 mg/kg	<1	<1	0.0
		Chromium	2 mg/kg	16	15	0.0
		Copper	5 mg/kg	22	22	0.0
		Lead	5 mg/kg	13	10	18.9
		Nickel	2 mg/kg	56	55	0.0
		Zinc	5 mg/kg	254	249	2.1
EG035T: Total Mercury by FIMS						
EG035T: Total Mercury by FIMS - (QC Lot: 220971)				mg/kg	mg/kg	%
ES0606534-037	Anonymous	Mercury	0.1 mg/kg	0.2	0.2	0.0
EP066: Polychlorinated Biphenyls (PCB)						
EP066: Polychlorinated Biphenyls (PCB) - (QC Lot: 220201)				mg/kg	mg/kg	%
ES0606610-002	TRIP 03	Total Polychlorinated biphenyls	0.10 mg/kg	<0.10	<0.10	0.0
EP068A: Organochlorine Pesticides (OC)						
EP068A: Organochlorine Pesticides (OC) - (QC Lot: 220200)				mg/kg	mg/kg	%

Client : HLA-ENVIROSCIENCES PTY LTD
 Project : S4062801 MM Group North Ryde

Work Order : ES0606610
 ALS Quote Reference : EN/004/05

Page Number : 3 of 14
 Issue Date : 6 Jun 2006

Matrix Type: SOIL **Laboratory Duplicates (DUP) Report**

Laboratory Sample ID	Client Sample ID	Analyte name	LOR	Original Result	Duplicate Result	RPD
EP068A: Organochlorine Pesticides (OC) - continued						
EP068A: Organochlorine Pesticides (OC) - (QC Lot: 220200) - continued				mg/kg	mg/kg	%
ES0606610-002	TRIP 03	alpha-BHC	0.05 mg/kg	<0.05	<0.05	0.0
		Hexachlorobenzene (HCB)	0.05 mg/kg	<0.05	<0.05	0.0
		beta-BHC	0.05 mg/kg	<0.05	<0.05	0.0
		gamma-BHC	0.05 mg/kg	<0.05	<0.05	0.0
		delta-BHC	0.05 mg/kg	<0.05	<0.05	0.0
		Heptachlor	0.05 mg/kg	<0.05	<0.05	0.0
		Aldrin	0.05 mg/kg	<0.05	<0.05	0.0
		Heptachlor epoxide	0.05 mg/kg	<0.05	<0.05	0.0
		trans-Chlordane	0.05 mg/kg	<0.05	<0.05	0.0
		alpha-Endosulfan	0.05 mg/kg	<0.05	<0.05	0.0
		cis-Chlordane	0.05 mg/kg	<0.05	<0.05	0.0
		Dieldrin	0.05 mg/kg	<0.05	<0.05	0.0
		4,4'-DDE	0.05 mg/kg	<0.05	<0.05	0.0
		Endrin	0.05 mg/kg	<0.05	<0.05	0.0
		beta-Endosulfan	0.05 mg/kg	<0.05	<0.05	0.0
		4,4'-DDD	0.05 mg/kg	<0.05	<0.05	0.0
		Endrin aldehyde	0.05 mg/kg	<0.05	<0.05	0.0
		Endosulfan sulfate	0.05 mg/kg	<0.05	<0.05	0.0
		4,4'-DDT	0.2 mg/kg	<0.2	<0.2	0.0
		Endrin ketone	0.05 mg/kg	<0.05	<0.05	0.0
		Methoxychlor	0.2 mg/kg	<0.2	<0.2	0.0
EP068B: Organophosphorus Pesticides (OP)						
EP068B: Organophosphorus Pesticides (OP) - (QC Lot: 220200)				mg/kg	mg/kg	%
ES0606610-002	TRIP 03	Dichlorvos	0.05 mg/kg	<0.05	<0.05	0.0
		Demeton-S-methyl	0.05 mg/kg	<0.05	<0.05	0.0
		Monocrotophos	0.2 mg/kg	<0.2	<0.2	0.0
		Dimethoate	0.05 mg/kg	<0.05	<0.05	0.0
		Diazinon	0.05 mg/kg	<0.05	<0.05	0.0
		Chlorpyrifos-methyl	0.05 mg/kg	<0.05	<0.05	0.0

Client : HLA-ENVIROSCIENCES PTY LTD
 Project : S4062801 MM Group North Ryde

Work Order : ES0606610
 ALS Quote Reference : EN/004/05

Page Number : 4 of 14
 Issue Date : 6 Jun 2006

Matrix Type: SOIL Laboratory Duplicates (DUP) Report

Laboratory Sample ID	Client Sample ID	Analyte name	LOR	Original Result	Duplicate Result	RPD
EP068B: Organophosphorus Pesticides (OP) - continued						
EP068B: Organophosphorus Pesticides (OP) - (QC Lot: 220200) - continued				mg/kg	mg/kg	%
ES0606610-002	TRIP 03	Parathion-methyl	0.2 mg/kg	<0.2	<0.2	0.0
		Malathion	0.05 mg/kg	<0.05	<0.05	0.0
		Fenthion	0.05 mg/kg	<0.05	<0.05	0.0
		Chlorpyrifos	0.05 mg/kg	<0.05	<0.05	0.0
		Parathion	0.2 mg/kg	<0.2	<0.2	0.0
		Pirimphos-ethyl	0.05 mg/kg	<0.05	<0.05	0.0
		Chlorfenvinphos	0.05 mg/kg	<0.05	<0.05	0.0
		Bromophos-ethyl	0.05 mg/kg	<0.05	<0.05	0.0
		Fenamiphos	0.05 mg/kg	<0.05	<0.05	0.0
		Prothiofos	0.05 mg/kg	<0.05	<0.05	0.0
		Ethion	0.05 mg/kg	<0.05	<0.05	0.0
		Carbophenothion	0.05 mg/kg	<0.05	<0.05	0.0
		Methyl Azinphos	0.05 mg/kg	<0.05	<0.05	0.0
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons						
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - (QC Lot: 219923)				mg/kg	mg/kg	%
ES0606560-001	Anonymous	Naphthalene	0.5 mg/kg	<0.5	<0.5	0.0
		Acenaphthylene	0.5 mg/kg	<0.5	<0.5	0.0
		Acenaphthene	0.5 mg/kg	<0.5	<0.5	0.0
		Fluorene	0.5 mg/kg	<0.5	<0.5	0.0
		Phenanthrene	0.5 mg/kg	<0.5	<0.5	0.0
		Anthracene	0.5 mg/kg	<0.5	<0.5	0.0
		Fluoranthene	0.5 mg/kg	<0.5	<0.5	0.0
		Pyrene	0.5 mg/kg	<0.5	<0.5	0.0
		Benzo(a)anthracene	0.5 mg/kg	<0.5	<0.5	0.0
		Chrysene	0.5 mg/kg	<0.5	<0.5	0.0
		Benzo(b)fluoranthene	0.5 mg/kg	<0.5	<0.5	0.0
		Benzo(k)fluoranthene	0.5 mg/kg	<0.5	<0.5	0.0
		Benzo(a)pyrene	0.5 mg/kg	<0.5	<0.5	0.0
		Indeno(1,2,3,cd)pyrene	0.5 mg/kg	<0.5	<0.5	0.0

Client : HLA-ENVIROSCIENCES PTY LTD
Project : S4062801 MM Group North Ryde

Work Order : ES0606610
ALS Quote Reference : EN/004/05

Page Number : 5 of 14
Issue Date : 6 Jun 2006

Matrix Type: SOIL **Laboratory Duplicates (DUP) Report**

Laboratory Sample ID	Client Sample ID	Analyte name	LOR	Original Result	Duplicate Result	RPD
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - continued						
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - (QC Lot: 219923) - continued				mg/kg	mg/kg	%
ES0606560-001	Anonymous	Dibenz(a,h)anthracene	0.5 mg/kg	<0.5	<0.5	0.0
		Benzo(g,h,i)perylene	0.5 mg/kg	<0.5	<0.5	0.0
ES0606571-009	Anonymous	Naphthalene	0.5 mg/kg	<0.5	<0.5	0.0
		Acenaphthylene	0.5 mg/kg	<0.5	<0.5	0.0
		Acenaphthene	0.5 mg/kg	<0.5	<0.5	0.0
		Fluorene	0.5 mg/kg	<0.5	<0.5	0.0
		Phenanthrene	0.5 mg/kg	<0.5	<0.5	0.0
		Anthracene	0.5 mg/kg	<0.5	<0.5	0.0
		Fluoranthene	0.5 mg/kg	<0.5	<0.5	0.0
		Pyrene	0.5 mg/kg	<0.5	<0.5	0.0
		Benz(a)anthracene	0.5 mg/kg	<0.5	<0.5	0.0
		Chrysene	0.5 mg/kg	<0.5	<0.5	0.0
		Benzo(b)fluoranthene	0.5 mg/kg	<0.5	<0.5	0.0
		Benzo(k)fluoranthene	0.5 mg/kg	<0.5	<0.5	0.0
		Benzo(a)pyrene	0.5 mg/kg	<0.5	<0.5	0.0
		Indeno(1,2,3,cd)pyrene	0.5 mg/kg	<0.5	<0.5	0.0
		Dibenz(a,h)anthracene	0.5 mg/kg	<0.5	<0.5	0.0
		Benzo(g,h,i)perylene	0.5 mg/kg	<0.5	<0.5	0.0
EP080/071: Total Petroleum Hydrocarbons						
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 219924)				mg/kg	mg/kg	%
ES0606560-001	Anonymous	C10 - C14 Fraction	50 mg/kg	<50	<50	0.0
		C15 - C28 Fraction	100 mg/kg	<100	<100	0.0
		C29 - C36 Fraction	100 mg/kg	<100	<100	0.0
ES0606571-009	Anonymous	C10 - C14 Fraction	50 mg/kg	<50	<50	0.0
		C15 - C28 Fraction	100 mg/kg	<100	140	35.7
		C29 - C36 Fraction	100 mg/kg	<100	<100	0.0
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 219966)				mg/kg	mg/kg	%
ES0606610-002	TRIP 03	C6 - C9 Fraction	2 mg/kg	<2	<2	0.0
EP080: BTEX						

Client : HLA-ENVIROSCIENCES PTY LTD
 Project : S4062801 MM Group North Ryde

Work Order : ES0606610
 ALS Quote Reference : EN/004/05

Page Number : 6 of 14
 Issue Date : 6 Jun 2006

Matrix Type: SOIL **Laboratory Duplicates (DUP) Report**

Laboratory Sample ID	Client Sample ID	Analyte name	LOR	Original Result	Duplicate Result	RPD
EP080: BTEX - continued						
EP080: BTEX - (QC Lot: 219966)				mg/kg	mg/kg	%
ES0606610-002	TRIP 03	Benzene	0.2 mg/kg	<0.2	<0.2	0.0
		Toluene	0.2 mg/kg	<0.2	<0.2	0.0
		Ethylbenzene	0.2 mg/kg	<0.2	<0.2	0.0
		meta- & para-Xylene	0.2 mg/kg	<0.2	<0.2	0.0
		ortho-Xylene	0.2 mg/kg	<0.2	<0.2	0.0

Client : HLA-ENVIROSCIENCES PTY LTD
 Project : S4062801 MM Group North Ryde

Work Order : ES0606610
 ALS Quote Reference : EN/004/05

Page Number : 7 of 14
 Issue Date : 6 Jun 2006

Quality Control Report - Method Blank (MB) and Laboratory Control Samples (LCS)

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 type is to monitor potential laboratory contamination. The quality control term **Laboratory Control Sample (LCS)** refers to a known, interference free matrix spiked with target analytes or certified reference material. The purpose of this QC type is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of actual laboratory data. Abbreviations: LOR = Limit of reporting.

Matrix Type: SOIL

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

		Method blank result	Actual Results		Recovery Limits	
Analyte name	LOR		Spike concentration	Spike Recovery	Dynamic Recovery Limits	
				LCS	Low	High
EG005T: Total Metals by ICP-AES						
EG005T: Total Metals by ICP-AES - (QC Lot: 220970)		mg/kg	mg/kg	%	%	%
Arsenic	5 mg/kg	----	13.1	110	70	130
	5 mg/kg	<5	----	----	----	----
Cadmium	1 mg/kg	----	2.76	98.5	70	130
	1 mg/kg	<1	----	----	----	----
Chromium	2 mg/kg	----	60.9	102	70	130
	2 mg/kg	<2	----	----	----	----
Copper	5 mg/kg	----	54.7	104	70	130
	5 mg/kg	<5	----	----	----	----
Lead	5 mg/kg	----	55.2	96.3	70	130
	5 mg/kg	<5	----	----	----	----
Nickel	2 mg/kg	----	54.8	106	70	130
	2 mg/kg	<2	----	----	----	----
Zinc	5 mg/kg	----	104	98.3	70	130
	5 mg/kg	<5	----	----	----	----
EG035T: Total Mercury by FIMS						
EG035T: Total Mercury by FIMS - (QC Lot: 220971)		mg/kg	mg/kg	%	%	%
Mercury	0.1 mg/kg	----	1.4	95.2	70	130
	0.1 mg/kg	<0.1	----	----	----	----
EP066: Polychlorinated Biphenyls (PCB)						
EP066: Polychlorinated Biphenyls (PCB) - (QC Lot: 220201)		mg/kg	mg/kg	%	%	%
Total Polychlorinated biphenyls	0.1 mg/kg	----	0.5	83.7	66	121
	0.10 mg/kg	<0.10	----	----	----	----
EP068A: Organochlorine Pesticides (OC)						
EP068A: Organochlorine Pesticides (OC) - (QC Lot: 220200)		mg/kg	mg/kg	%	%	%

Client : HLA-ENVIROSCIENCES PTY LTD
 Project : S4062801 MM Group North Ryde

Work Order : ES0606610
 ALS Quote Reference : EN/004/05

Page Number : 8 of 14
 Issue Date : 6 Jun 2006

Matrix Type: SOIL Method Blank (MB) and Laboratory Control Samples (LCS) Report

		Method blank result	Actual Results		Recovery Limits	
Analyte name	LOR		Spike concentration	Spike Recovery	Dynamic Recovery Limits	
				LCS	Low	High
EP068A: Organochlorine Pesticides (OC) - continued						
EP068A: Organochlorine Pesticides (OC) - (QC Lot: 220200) - continued		mg/kg	mg/kg	%	%	%
4,4'-DDD	0.05 mg/kg	----	0.25	71.8	72.4	109
	0.05 mg/kg	<0.05	----	----	----	----
4,4'-DDE	0.05 mg/kg	----	0.25	89.0	73.6	107
	0.05 mg/kg	<0.05	----	----	----	----
4,4'-DDT	0.2 mg/kg	----	0.25	118	62.1	125
	0.2 mg/kg	<0.2	----	----	----	----
Aldrin	0.05 mg/kg	----	0.25	86.0	73.3	108
	0.05 mg/kg	<0.05	----	----	----	----
alpha-BHC	0.05 mg/kg	----	0.25	81.7	77.5	109
	0.05 mg/kg	<0.05	----	----	----	----
alpha-Endosulfan	0.05 mg/kg	----	0.25	87.2	71.5	112
	0.05 mg/kg	<0.05	----	----	----	----
beta-BHC	0.05 mg/kg	----	0.25	83.1	73.1	110
	0.05 mg/kg	<0.05	----	----	----	----
beta-Endosulfan	0.05 mg/kg	----	0.25	83.4	73.8	112
	0.05 mg/kg	<0.05	----	----	----	----
cis-Chlordane	0.05 mg/kg	----	0.25	90.0	70.8	111
	0.05 mg/kg	<0.05	----	----	----	----
delta-BHC	0.05 mg/kg	----	0.25	86.2	67.1	113
	0.05 mg/kg	<0.05	----	----	----	----
Dieldrin	0.05 mg/kg	----	0.25	85.9	72.7	109
	0.05 mg/kg	<0.05	----	----	----	----
Endosulfan sulfate	0.05 mg/kg	----	0.25	95.0	68.5	115
	0.05 mg/kg	<0.05	----	----	----	----
Endrin	0.05 mg/kg	----	0.25	91.7	65.8	107
	0.05 mg/kg	<0.05	----	----	----	----
Endrin aldehyde	0.05 mg/kg	----	0.25	84.0	72.2	114
	0.05 mg/kg	<0.05	----	----	----	----
Endrin ketone	0.05 mg/kg	----	0.25	108	71.1	114
	0.05 mg/kg	<0.05	----	----	----	----

Client : HLA-ENVIROSCIENCES PTY LTD
Project : S4062801 MM Group North Ryde

Work Order : ES0606610
ALS Quote Reference : EN/004/05

Page Number : 9 of 14
Issue Date : 6 Jun 2006

Matrix Type: SOIL Method Blank (MB) and Laboratory Control Samples (LCS) Report

		Method blank result	Actual Results		Recovery Limits	
Analyte name	LOR		Spike concentration	Spike Recovery	Dynamic Recovery Limits	
				LCS	Low	High
EP068A: Organochlorine Pesticides (OC) - continued						
EP068A: Organochlorine Pesticides (OC) - (QC Lot: 220200) - continued		mg/kg	mg/kg	%	%	%
gamma-BHC	0.05 mg/kg	----	0.25	83.8	73.1	110
	0.05 mg/kg	<0.05	----	----	----	----
Heptachlor	0.05 mg/kg	----	0.25	105	74.8	107
	0.05 mg/kg	<0.05	----	----	----	----
Heptachlor epoxide	0.05 mg/kg	----	0.25	87.1	74	108
	0.05 mg/kg	<0.05	----	----	----	----
Hexachlorobenzene (HCB)	0.05 mg/kg	----	0.25	80.6	69.6	108
	0.05 mg/kg	<0.05	----	----	----	----
Methoxychlor	0.2 mg/kg	----	0.25	104	56.8	137
	0.2 mg/kg	<0.2	----	----	----	----
trans-Chlordane	0.05 mg/kg	----	0.25	88.6	74.6	108
	0.05 mg/kg	<0.05	----	----	----	----
EP068B: Organophosphorus Pesticides (OP)						
EP068B: Organophosphorus Pesticides (OP) - (QC Lot: 220200)		mg/kg	mg/kg	%	%	%
Methyl Azinphos	0.05 mg/kg	----	0.25	100	33.1	144
	0.05 mg/kg	<0.05	----	----	----	----
Bromophos-ethyl	0.05 mg/kg	----	0.25	87.0	66.5	112
	0.05 mg/kg	<0.05	----	----	----	----
Carbophenothion	0.05 mg/kg	----	0.25	90.8	67.8	108
	0.05 mg/kg	<0.05	----	----	----	----
Chlorfenvinphos	0.05 mg/kg	----	0.25	89.6	54.5	132
	0.05 mg/kg	<0.05	----	----	----	----
Chlorpyrifos	0.05 mg/kg	----	0.25	86.8	75	109
	0.05 mg/kg	<0.05	----	----	----	----
Chlorpyrifos-methyl	0.05 mg/kg	----	0.25	88.0	72.2	107
	0.05 mg/kg	<0.05	----	----	----	----
Demeton-S-methyl	0.05 mg/kg	----	0.25	69.1	57.7	123
	0.05 mg/kg	<0.05	----	----	----	----
Diazinon	0.05 mg/kg	----	0.25	85.7	72.9	108
	0.05 mg/kg	<0.05	----	----	----	----

Client : HLA-ENVIROSCIENCES PTY LTD
 Project : S4062801 MM Group North Ryde

Work Order : ES0606610
 ALS Quote Reference : EN/004/05

Page Number : 10 of 14
 Issue Date : 6 Jun 2006

Matrix Type: SOIL Method Blank (MB) and Laboratory Control Samples (LCS) Report

		Method blank result	Actual Results		Recovery Limits	
Analyte name	LOR		Spike concentration	Spike Recovery	Dynamic Recovery Limits	
				LCS	Low	High
EP068B: Organophosphorus Pesticides (OP) - continued						
EP068B: Organophosphorus Pesticides (OP) - (QC Lot: 220200) - continued		mg/kg	mg/kg	%	%	%
Dichlorvos	0.05 mg/kg	----	0.25	78.9	64	117
	0.05 mg/kg	<0.05	----	----	----	----
Dimethoate	0.05 mg/kg	----	0.25	85.2	60.7	117
	0.05 mg/kg	<0.05	----	----	----	----
Ethion	0.05 mg/kg	----	0.25	88.1	58.9	116
	0.05 mg/kg	<0.05	----	----	----	----
Fenamiphos	0.05 mg/kg	----	0.25	83.4	48.8	118
	0.05 mg/kg	<0.05	----	----	----	----
Fenthion	0.05 mg/kg	----	0.25	84.6	72.5	107
	0.05 mg/kg	<0.05	----	----	----	----
Malathion	0.05 mg/kg	----	0.25	98.2	61.6	121
	0.05 mg/kg	<0.05	----	----	----	----
Monocrotophos	0.2 mg/kg	----	0.25	81.0	46.9	125
	0.2 mg/kg	<0.2	----	----	----	----
Parathion	0.2 mg/kg	----	0.25	89.8	65.2	116
	0.2 mg/kg	<0.2	----	----	----	----
Parathion-methyl	0.2 mg/kg	----	0.25	93.2	68	109
	0.2 mg/kg	<0.2	----	----	----	----
Pirimphos-ethyl	0.05 mg/kg	----	0.25	86.1	66.3	118
	0.05 mg/kg	<0.05	----	----	----	----
Prothiofos	0.05 mg/kg	----	0.25	86.9	73	111
	0.05 mg/kg	<0.05	----	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons						
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - (QC Lot: 219923)		mg/kg	mg/kg	%	%	%
Acenaphthene	0.5 mg/kg	----	4	105	87	105
	0.5 mg/kg	<0.5	----	----	----	----
Acenaphthylene	0.5 mg/kg	----	4	104	85	107
	0.5 mg/kg	<0.5	----	----	----	----
Anthracene	0.5 mg/kg	----	4	99.8	88	107
	0.5 mg/kg	<0.5	----	----	----	----

Client : HLA-ENVIROSCIENCES PTY LTD
 Project : S4062801 MM Group North Ryde

Work Order : ES0606610
 ALS Quote Reference : EN/004/05

Page Number : 11 of 14
 Issue Date : 6 Jun 2006



Matrix Type: SOIL

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

		Method blank result	Actual Results		Recovery Limits	
			Spike concentration	Spike Recovery	Dynamic Recovery Limits	
				LCS	Low	High
Analyte name	LOR					
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - continued						
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - (QC Lot: 219923) - continued		mg/kg	mg/kg	%	%	%
Benz(a)anthracene	0.5 mg/kg	----	4	96.7	85	100
	0.5 mg/kg	<0.5	----	----	----	----
Benzo(a)pyrene	0.5 mg/kg	----	4	98.7	83	108
	0.5 mg/kg	<0.5	----	----	----	----
Benzo(b)fluoranthene	0.5 mg/kg	----	4	86.1	68	112
	0.5 mg/kg	<0.5	----	----	----	----
Benzo(g,h,i)perylene	0.5 mg/kg	----	4	89.0	76	109
	0.5 mg/kg	<0.5	----	----	----	----
Benzo(k)fluoranthene	0.5 mg/kg	----	4	120	70	129
	0.5 mg/kg	<0.5	----	----	----	----
Chrysene	0.5 mg/kg	----	4	104	84	111
	0.5 mg/kg	<0.5	----	----	----	----
Dibenz(a,h)anthracene	0.5 mg/kg	----	4	76.4	77	107
	0.5 mg/kg	<0.5	----	----	----	----
Fluoranthene	0.5 mg/kg	----	4	104	87	105
	0.5 mg/kg	<0.5	----	----	----	----
Fluorene	0.5 mg/kg	----	4	103	85	105
	0.5 mg/kg	<0.5	----	----	----	----
Indeno(1,2,3,cd)pyrene	0.5 mg/kg	----	4	82.8	76	110
	0.5 mg/kg	<0.5	----	----	----	----
Naphthalene	0.5 mg/kg	----	4	105	87	103
	0.5 mg/kg	<0.5	----	----	----	----
Phenanthrene	0.5 mg/kg	----	4	104	85	113
	0.5 mg/kg	<0.5	----	----	----	----
Pyrene	0.5 mg/kg	----	4	105	75	105
	0.5 mg/kg	<0.5	----	----	----	----
EP080/071: Total Petroleum Hydrocarbons						
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 219924)		mg/kg	mg/kg	%	%	%
C10 - C14 Fraction	50 mg/kg	----	200	106	79	112
	50 mg/kg	<50	----	----	----	----

Client : HLA-ENVIROSCIENCES PTY LTD
Project : S4062801 MM Group North Ryde

Work Order : ES0606610
ALS Quote Reference : EN/004/05

Page Number : 12 of 14
Issue Date : 6 Jun 2006

Matrix Type: SOIL Method Blank (MB) and Laboratory Control Samples (LCS) Report

		Method blank result	Actual Results		Recovery Limits	
Analyte name	LOR		Spike concentration	Spike Recovery	Dynamic Recovery Limits	
				LCS	Low	High
EP080/071: Total Petroleum Hydrocarbons - continued						
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 219924) - continued		mg/kg	mg/kg	%	%	%
C15 - C28 Fraction	100 mg/kg	----	200	96.4	84	108
	100 mg/kg	<100	----	----	----	----
C29 - C36 Fraction	100 mg/kg	----	200	99.0	76	117
	100 mg/kg	<100	----	----	----	----
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 219966)		mg/kg	mg/kg	%	%	%
C6 - C9 Fraction	2 mg/kg	----	26	106	80	119
	2 mg/kg	<2	----	----	----	----
EP080: BTEX						
EP080: BTEX - (QC Lot: 219966)		mg/kg	mg/kg	%	%	%
Benzene	0.2 mg/kg	----	1	107	80	118
	0.2 mg/kg	<0.2	----	----	----	----
Ethylbenzene	0.2 mg/kg	----	1	112	80	120
	0.2 mg/kg	<0.2	----	----	----	----
meta- & para-Xylene	0.2 mg/kg	----	2	113	79	119
	0.2 mg/kg	<0.2	----	----	----	----
ortho-Xylene	0.2 mg/kg	----	1	111	80	119
	0.2 mg/kg	<0.2	----	----	----	----
Toluene	0.2 mg/kg	----	1	90.7	81	119
	0.2 mg/kg	<0.2	----	----	----	----

Client : HLA-ENVIROSCIENCES PTY LTD
 Project : S4062801 MM Group North Ryde

Work Order : ES0606610
 ALS Quote Reference : EN/004/05

Page Number : 13 of 14
 Issue Date : 6 Jun 2006

Quality Control Report - Matrix Spikes (MS)

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 type is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQO's). 'Ideal' recovery ranges stated may be waived in the event of sample matrix interferences. - Anonymous - Client Sample IDs refer to samples which are not specifically part of this work order but formed part of the QC process lot. *Abbreviations: LOR = Limit of Reporting, RPD = Relative Percent Difference.*

* Indicates failed QC

Matrix Type: SOIL **Matrix Spike (MS) Report**

					Actual Results		Recovery Limits		
Analyte name		Laboratory Sample ID	Client Sample ID	LOR	Spike Concentration	Sample Result	Spike Recovery	Static Limits	
							MS	Low	High
EG005T: Total Metals by ICP-AES									
EG005T: Total Metals by ICP-AES - (QC Lot: 220970)					mg/kg	mg/kg	%	%	%
Arsenic	ES0606534-037	Anonymous	5 mg/kg	50	6	100	70	130	
Cadmium			1 mg/kg	50	<1	97.6	70	130	
Chromium			2 mg/kg	50	10	106	70	130	
Copper			5 mg/kg	250	31	104	70	130	
Lead			5 mg/kg	250	50	92.4	70	130	
Nickel			2 mg/kg	50	7	106	70	130	
Zinc			5 mg/kg	250	49	89.0	70	130	
EG035T: Total Mercury by FIMS									
EG035T: Total Mercury by FIMS - (QC Lot: 220971)					mg/kg	mg/kg	%	%	%
Mercury	ES0606534-037	Anonymous	0.1 mg/kg	5	0.2	83.2	70	130	
EP066: Polychlorinated Biphenyls (PCB)									
EP066: Polychlorinated Biphenyls (PCB) - (QC Lot: 220201)					mg/kg	mg/kg	%	%	%
Total Polychlorinated biphenyls	ES0606610-002	TRIP 03	0.1 mg/kg	0.5	<0.10	82.1	70	130	
EP068A: Organochlorine Pesticides (OC)									
EP068A: Organochlorine Pesticides (OC) - (QC Lot: 220200)					mg/kg	mg/kg	%	%	%
gamma-BHC	ES0606610-002	TRIP 03	0.05 mg/kg	0.25	<0.05	83.2	75.65	110.44	
Heptachlor			0.05 mg/kg	0.25	<0.05	80.2	72.2	106.71	
Aldrin			0.05 mg/kg	0.25	<0.05	86.6	77.54	107.0	
Dieldrin			0.05 mg/kg	0.25	<0.05	82.0	76.37	109.7	
Endrin			0.05 mg/kg	1	<0.05	71.3	68.51	119.47	
4,4'-DDT			0.20 mg/kg	1	<0.2	79.3	67.12	118.10	
EP068B: Organophosphorus Pesticides (OP)									
EP068B: Organophosphorus Pesticides (OP) - (QC Lot: 220200)					mg/kg	mg/kg	%	%	%

Client : HLA-ENVIROSCIENCES PTY LTD
 Project : S4062801 MM Group North Ryde

Work Order : ES0606610
 ALS Quote Reference : EN/004/05

Page Number : 14 of 14
 Issue Date : 6 Jun 2006

Matrix Type: SOIL Matrix Spike (MS) Report

					Actual Results		Recovery Limits	
					Sample Result	Spike Recovery	Static Limits	
Analyte name	Laboratory Sample ID	Client Sample ID	LOR	Spike Concentration		MS	Low	High
EP068B: Organophosphorus Pesticides (OP) - continued								
EP068B: Organophosphorus Pesticides (OP) - (QC Lot: 220200) - continued				mg/kg	mg/kg	%	%	%
Diazinon	ES0606610-002	TRIP 03	0.05 mg/kg	0.25	<0.05	84.8	75.85	107.06
Chlorpyrifos-methyl			0.05 mg/kg	0.25	<0.05	83.6	74.84	107.91
Pirimphos-ethyl			0.05 mg/kg	0.25	<0.05	79.8	67.98	109.42
Bromophos-ethyl			0.05 mg/kg	0.25	<0.05	82.2	74.94	107.37
Prothiofos			0.05 mg/kg	0.25	<0.05	82.6	75.45	106.05
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - (QC Lot: 219923)				mg/kg	mg/kg	%	%	%
Acenaphthene	ES0606560-001	Anonymous	0.5 mg/kg	10	<0.5	116	70	130
Pyrene			0.5 mg/kg	10	<0.5	118	70	130
EP080/071: Total Petroleum Hydrocarbons								
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 219924)				mg/kg	mg/kg	%	%	%
C10 - C14 Fraction	ES0606560-001	Anonymous	50 mg/kg	700	<50	100	70	130
C15 - C28 Fraction			100 mg/kg	3400	<100	107	70	130
C29 - C36 Fraction			100 mg/kg	3600	<100	105	70	130
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 219966)				mg/kg	mg/kg	%	%	%
C6 - C9 Fraction	ES0606610-002	TRIP 03	2 mg/kg	26	<2	101	70	130
EP080: BTEX								
EP080: BTEX - (QC Lot: 219966)				mg/kg	mg/kg	%	%	%
Benzene	ES0606610-002	TRIP 03	0.2 mg/kg	2.5	<0.2	105	70	130
Toluene			0.2 mg/kg	2.5	<0.2	107	70	130
Ethylbenzene			0.2 mg/kg	2.5	<0.2	113	70	130
meta- & para-Xylene			0.2 mg/kg	2.5	<0.2	114	70	130
ortho-Xylene			0.2 mg/kg	2.5	<0.2	109	70	130



Appendix D

PROJECT NUMBER S4062801

DATE 29/05/2006

PROJECT NAME Austalind Industrial No.122 Pty Ltd

BLANK 50mm Class 18 uPVC Casing

LOCATION 396 Lane Cove Road, Macquarie Park

SCREEN 50mm Class 18 uPVC Factory Slotted Screen

DRILLING METHOD Solid flight auger/Push tube

GRAVEL PACK 2-3mm graded sand

SAMPLING METHOD Solid flight auger/Push tube

SANITARY SEAL/BENTONITE Bentonite pellets

SURFACE ELEVATION

STABILISED WATER LEVEL

WELL HEAD/TOC

GROUND WATER ELEVATION

LOGGED BY B. Pearce

COMMENTS

PID (ppm)	BLOW COUNTS	RECOVERY	SAMPLE NUMBER	ANALYSED	DEPTH (m BGL)	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
28.4		X	BH01 0.05-0.2	*			Bitumen	0.05	Cement Bentonite Blank Casing Filter Pack Screen
38.7		X	BH01 0.4-0.6				SAND with minor gravel (Fill), dry, very dense, olive brown, no odour	0.20	
1		X	BH01 1.0-1.2		1.0		SILTY CLAY, (CL), dry, very stiff, low to medium plasticity, brown grey, no odour	1.20	
0.5			BH01 2.0-2.2		2.0		SILTY CLAY with minor gravel (CL), dry, hard, low plasticity, brown grey, no odour	2.20	
42.6			BH01 2.7-2.8				WEATHERED SHALE, dry, brown	2.80	
							Refusal on Shale @ 2.8mbgs Total Depth: 2.80 m		

HLA

HLA Envirosciences - Sydney
Level 5, 828 Pacific Highway
Gordon NSW 2073
Telephone: 02 8484 8999
Fax: 02 8484 8989

LOG OF SOIL BORING**BH02**PROJECT NUMBER S4062801DATE 29/05/2006PROJECT NAME Austalund Industrial No.122 Pty Ltd

SURFACE ELEVATION _____

LOCATION 396 Lane Cove Road, Macquarie Park

STABILISED WATER LEVEL _____

DRILLING METHOD Push tube

GROUND WATER ELEVATION _____

SAMPLING METHOD Push tubeLOGGED BY B. Pearce

COMMENTS _____

PID (ppm)	BLOW COUNTS	RECOVERY	SAMPLE NUMBER	ANALYSED	DEPTH (m BGL)	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
ND			BH02 0.05-0.15	*			SILTY SAND with minor gravel (Fill), dry, dense, olive grey, no odour	
36.6			BH02 0.4-0.5	*			SILTY CLAY, (CL), dry, very stiff, low to medium plasticity, brown grey, no odour, refusal on shale @ 1.1m	0.40
7.2			BH02 1.0-1.1		1.0		Refusal on shale @ 1.1mbgs Total Depth: 1.10 m	1.10

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LOG OF SOIL BORING**BH03**PROJECT NUMBER S4062801DATE 29/05/2006PROJECT NAME Austalund Industrial No.122 Pty Ltd

SURFACE ELEVATION _____

LOCATION 396 Lane Cove Road, Macquarie Park

STABILISED WATER LEVEL _____

DRILLING METHOD Push tube

GROUND WATER ELEVATION _____

SAMPLING METHOD Push tubeLOGGED BY B. PearceCOMMENTS IS = Insufficient sample volume

PID (ppm)	BLOW COUNTS	RECOVERY	SAMPLE NUMBER	ANALYSED	DEPTH (m BGL)	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
							Concrete	0.15
IS		X	BH03 0.15-0.25	*			SAND (Fill), dry, dense, pale yellow, no odour	0.20
IS		X	BH03 0.3-0.5				SILTY CLAY with minor gravel (Fill), soft, slightly moist, low plasticity, grey brown, gravel, reworked natural soil	
							Refusal on shale @ 0.5mbgs Total Depth: 0.50 m	0.50

LOG OF SOIL BORING

BH04

PROJECT NUMBER S4062801

DATE 29/05/2006

PROJECT NAME Austalind Industrial No.122 Pty Ltd

SURFACE ELEVATION

LOCATION 396 Lane Cove Road, Macquarie Park

STABILISED WATER LEVEL

DRILLING METHOD Solid flight auger/Push tube

GROUND WATER ELEVATION

SAMPLING METHOD Solid flight auger/Push tube

LOGGED BY B. Pearce

COMMENTS IS = Insufficient sample volume

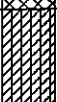
PID (ppm)	BLOW COUNTS	RECOVERY	SAMPLE NUMBER	ANALYSED	DEPTH (m BGL)	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
42.8		☒	BH04 0.05-0.15	*			Bitumen	0.05
IS		☒	BH04 0.2-0.3				SILTY SAND (Fill), dry, dense, olive grey, blue metal gravels, no odour	
IS		☒	BH04 0.4-0.5					
44.7			BH04 0.8-1.0	*	1.0		SILTY CLAY (CL), dry to slightly moist, stiff, low plasticity, light brown, no odour	0.80
40.7		☒	BH04 1.9-2.0		2.0		WEATHERED SHALE, dry, light brown	1.80
44		☒	BH04 2.9-3.0		3.0		Limit of investigation @ 3.0mbgs Total Depth: 3.00 m	3.00

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LOG OF SOIL BORING**BH05**

PROJECT NUMBER S4062801 DATE 29/05/2006
PROJECT NAME Austalund Industrial No.122 Pty Ltd SURFACE ELEVATION _____
LOCATION 396 Lane Cove Road, Macquarie Park STABILISED WATER LEVEL _____
DRILLING METHOD Solid flight auger/Push tube GROUND WATER ELEVATION _____
SAMPLING METHOD Solid flight auger/Push tube
LOGGED BY B. Pearce
COMMENTS _____

PID (ppm)	BLOW COUNTS	RECOVERY	SAMPLE NUMBER	ANALYSED	DEPTH (m BGL)	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
43.2			BH05 0.05-0.15	*			Bitumen GRAVELLY SAND (Fill), dry,dense, grey, blue metal gravels, no odour	0.05
15			BH05 0.4-0.5					
63.5			BH05 0.6-0.8				SILTY CLAY, (CL), dry, stiff, low to medium plasticity, grey/brown, no odour	0.60
					1.0			
							WEATHERED SHALE, dry, grey/brown, minor ironstone bands	1.10
12.5			BH05 1.2-1.3					
							Refusal on shale @ 1.3mbgs Total Depth: 1.30 m	1.30

LOG OF SOIL BORING S4062801_BORELOGS_2JUN06.GPJ HLA_SYD.GDT 22/06/06

HLA

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 Level 5, 828 Pacific Highway
 Gordon NSW 2073
 Telephone: 02 8484 8999
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LOG OF SOIL BORING**BH06**PROJECT NUMBER S4062801DATE 29/05/2006PROJECT NAME Austalund Industrial No.122 Pty Ltd

SURFACE ELEVATION _____

LOCATION 396 Lane Cove Road, Macquarie Park

STABILISED WATER LEVEL _____

DRILLING METHOD Push tube

GROUND WATER ELEVATION _____

SAMPLING METHOD Push tubeLOGGED BY B. Pearce

COMMENTS _____

PID (ppm)	BLOW COUNTS	RECOVERY	SAMPLE NUMBER	ANALYSED	DEPTH (m BGL)	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
3.8			BH06 0.05-0.15	*			Bitumen SILTY SAND, (Fill), dry, dense, orange/grey, gravel, no odour	0.05
2.7			BH06 0.4-0.5					
			BH06 0.6-0.7				SILTY CLAY (CL), dry, very stiff to hard, low plasticity, grey/brown, ironstone bands	0.60
4.1			BH06 1.0-1.1	*	1.0		Refusal on shale @ 1.1mbgs Total Depth: 1.10 m	1.10

LOG OF SOIL BORING S4062801 BORELOGS_2JUN06.GPJ HLA_SYD.GDT 22/09/06

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LOG OF SOIL BORING**BH07**PROJECT NUMBER S4062801DATE 29/05/2006PROJECT NAME Austalund Industrial No.122 Pty Ltd

SURFACE ELEVATION _____

LOCATION 396 Lane Cove Road, Macquarie Park

STABILISED WATER LEVEL _____

DRILLING METHOD Push tube

GROUND WATER ELEVATION _____

SAMPLING METHOD Push tubeLOGGED BY B. Pearce

COMMENTS _____

PID (ppm)	BLOW COUNTS	RECOVERY	SAMPLE NUMBER	ANALYSED	DEPTH (m BGL)	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
28			BH07_0.15-0.3	*			Concrete	0.15
							SAND with minor gravel (Fill), dry, dense, orange, minor sandstone gravels, no odour	0.20
							WEATHERED SHALE, dry, grey/minor brown	
4.8			BH07_0.6-0.75					
							Refusal on shale @ 0.75mbgs Total Depth: 0.75 m	0.75

LOG OF SOIL BORING

BH08

PROJECT NUMBER S4062801

DATE 29/05/2006

PROJECT NAME Austalind Industrial No.122 Pty Ltd

SURFACE ELEVATION

LOCATION 396 Lane Cove Road, Macquarie Park

STABILISED WATER LEVEL

DRILLING METHOD Solid flight auger/Push tube

GROUND WATER ELEVATION

SAMPLING METHOD Solid flight auger/Push tube

LOGGED BY B. Pearce

COMMENTS IS = Insufficient sample volume

PID (ppm)	BLOW COUNTS	RECOVERY	SAMPLE NUMBER	ANALYSED	DEPTH (m BGL)	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
IS		✗	BH08 0.16-0.25	*			Concrete	0.16
							SAND with minor gravel (Fill), slightly moist, dense, orange yellow, sandstone gravel, no odour	0.25
44.5		✗	BH08 0.6-0.8	*			SILTY CLAY (CL), dry, stiff, low plasticity, orange grey	
					1.0		WEATHERED SHALE, dry, brown	1.00
39		✗	BH08 1.3-1.4					
IS		■	BH08 1.9-2.0		2.0			
33.5		■	BH08 2.9-3.0		3.0			
							Limit of investigation @ 3.0mbgs Total Depth: 3.00 m	3.00

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LOG OF SOIL BORING**BH09**PROJECT NUMBER S4062801DATE 29/05/2006PROJECT NAME Austalund Industrial No.122 Pty Ltd

SURFACE ELEVATION _____

LOCATION 396 Lane Cove Road, Macquarie Park

STABILISED WATER LEVEL _____

DRILLING METHOD Push tube

GROUND WATER ELEVATION _____

SAMPLING METHOD Push tubeLOGGED BY B. Pearce

COMMENTS _____

PID (ppm)	BLOW COUNTS	RECOVERY	SAMPLE NUMBER	ANALYSED	DEPTH (m BGL)	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
							Concrete	
30			BH09 0.17-0.3	*			SAND with minor gravel (Fill), slightly moist, dense, yellow orange, gravel, no odour	0.17
							SILTY CLAY (CL), dry, stiff, low plasticity, brown	0.30
32.7			BH09 0.4-0.6				WEATHERED SHALE, dry, grey, minor ironstone	0.50
					-1.0			
15.7			BH09 1.2-1.3					
							Refusal on shale @ 1.3mbgs Total Depth: 1.30 m	1.30

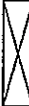
LOG OF SOIL BORING S4062801_BORELOGS_2JUN06.GPJ HLA_SYD.GDT 22/06/06

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LOG OF SOIL BORING**BH10**

PROJECT NUMBER S4062801 DATE 29/05/2006
PROJECT NAME Austaland Industrial No.122 Pty Ltd SURFACE ELEVATION _____
LOCATION 396 Lane Cove Road, Macquarie Park STABILISED WATER LEVEL _____
DRILLING METHOD Push tube GROUND WATER ELEVATION _____
SAMPLING METHOD Push tube
LOGGED BY B. Pearce
COMMENTS _____

PID (ppm)	BLOW COUNTS	RECOVERY	SAMPLE NUMBER	ANALYSED	DEPTH (m BGL)	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
10.4			BH10 0.16-0.3	*		 	Concrete SAND with minor gravel (Fill), slightly moist, dense, orange/yellow sandstone gravels Refusal on sandstone fill @ 0.3mbgs Total Depth: 0.30 m	0.16 0.30

MONITORING WELL LOG BH11/MW02

PROJECT NUMBER S4062801

DATE 30/05/2006

PROJECT NAME Austalund Industrial No.122 Pty Ltd

BLANK 50mm Class 18 uPVC Casing

LOCATION 396 Lane Cove Road, Macquarie Park

SCREEN 50mm Class 18 uPVC Factory Slotted Screen

DRILLING METHOD Solid flight auger/Push tube

GRAVEL PACK 2-3mm graded sand

SAMPLING METHOD Solid flight auger/Push tube

SANITARY SEAL/BENTONITE Bentonite pellets

SURFACE ELEVATION

STABILISED WATER LEVEL

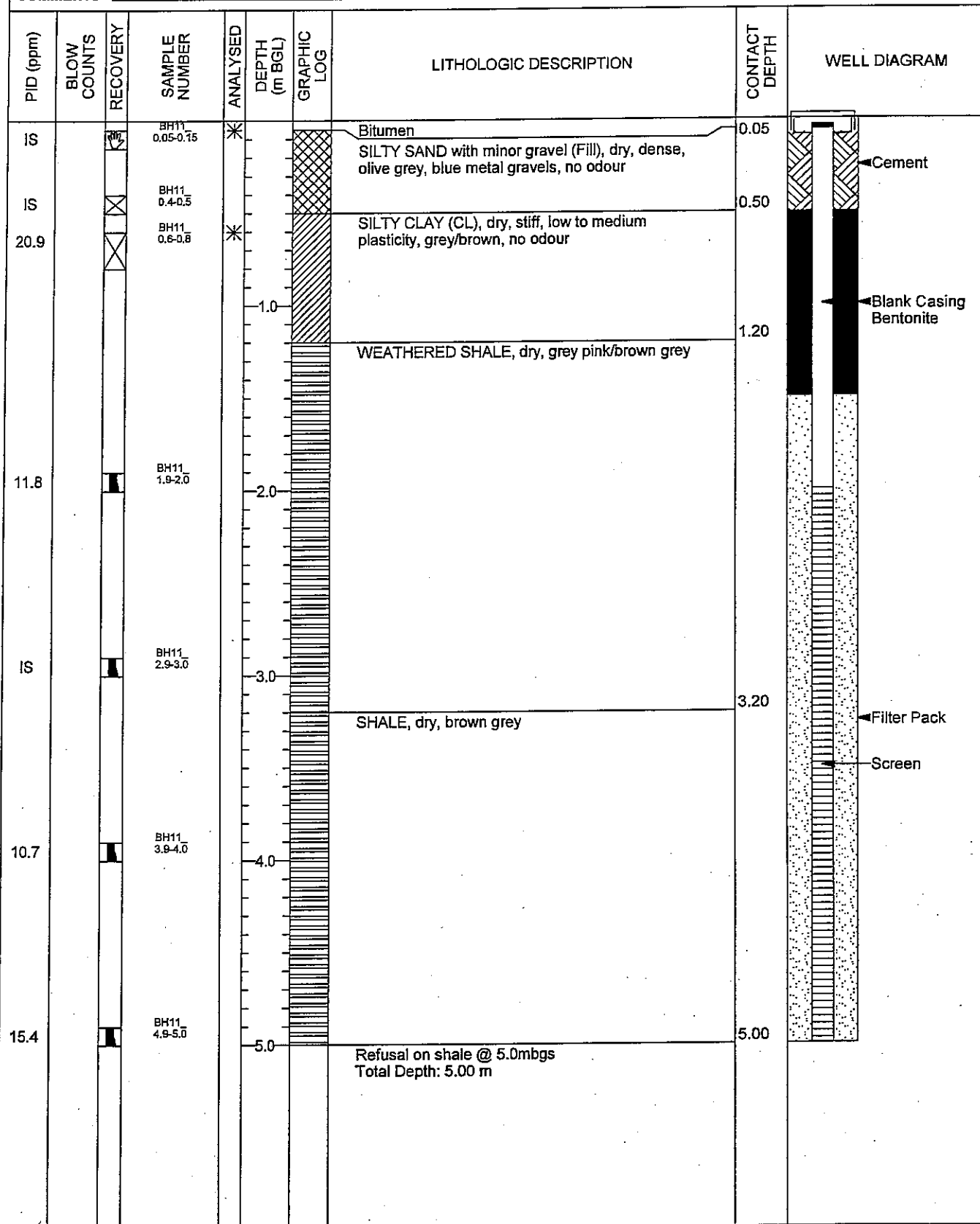
WELL HEAD/TOC

GROUND WATER ELEVATION

LOGGED BY B. Pearce

COMMENTS IS = Insufficient sample volume

BORING / WELL CONSTRUCTION LOG S4062801_BORELOGS_2JUN06.GPJ HLA_SYD_GDT 22/06/06



LOG OF SOIL BORING

BH12

PROJECT NUMBER S4062801

DATE 30/05/2006

PROJECT NAME Austalind Industrial No.122 Pty Ltd

SURFACE ELEVATION

LOCATION 396 Lane Cove Road, Macquarie Park

STABILISED WATER LEVEL

DRILLING METHOD Push tube

GROUND WATER ELEVATION

SAMPLING METHOD Push tube

LOGGED BY B. Pearce

COMMENTS IS = Insufficient sample volume

PID (ppm)	BLOW COUNTS	RECOVERY	SAMPLE NUMBER	ANALYSED	DEPTH (m BGL)	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
17.8			BH12 0.0-0.3	*			CLAYEY SILT with minor gravel (ML) dry, soft, low plasticity, brown, minor gravels	
15.1			BH12 0.6-0.8				SILT CLAY (CL), dry, stiff, low to medium plasticity, minor ironstone and shale	0.60
7.3			BH12 1.3-1.4		1.0			
IS			BH12 1.6-1.7				Refusal on shale @ 1.7mbgs Total Depth: 1.70 m	1.70

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LOG OF SOIL BORING**BH13**

PROJECT NUMBER S4062801 DATE 30/05/2006
PROJECT NAME Austalund Industrial No.122 Pty Ltd SURFACE ELEVATION _____
LOCATION 396 Lane Cove Road, Macquarie Park STABILISED WATER LEVEL _____
DRILLING METHOD Solid flight auger/Push tube GROUND WATER ELEVATION _____
SAMPLING METHOD Solid flight auger/Push tube
LOGGED BY B. Pearce
COMMENTS _____

PID (ppm)	BLOW COUNTS	RECOVERY	SAMPLE NUMBER	ANALYSED	DEPTH (m BGL)	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
4.5			BH13 0.0-0.1	*			SANDY SILT (Fill), dry, medium density, grey brown, some roots	0.15
							SILTY SAND with minor gravel (Fill), dry, medium density, grey brown, sandstone gravels	
1.9			BH13 0.5-0.6	*				
							Refusal on shale @ 0.6mbgs Total Depth: 0.60 m	0.60

MONITORING WELL LOG

BH14/MW03

PROJECT NUMBER S4062801

PROJECT NAME Austalnd Industrial No.122 Pty Ltd

LOCATION 396 Lane Cove Road, Macquarie Park

DRILLING METHOD Solid flight auger/Push tube

SAMPLING METHOD Solid flight auger/Push tube

SURFACE ELEVATION

WELL HEAD/TOC

LOGGED BY L O'Hea

COMMENTS

DATE 30/05/2006

BLANK 50mm Class 18 uPVC Casing

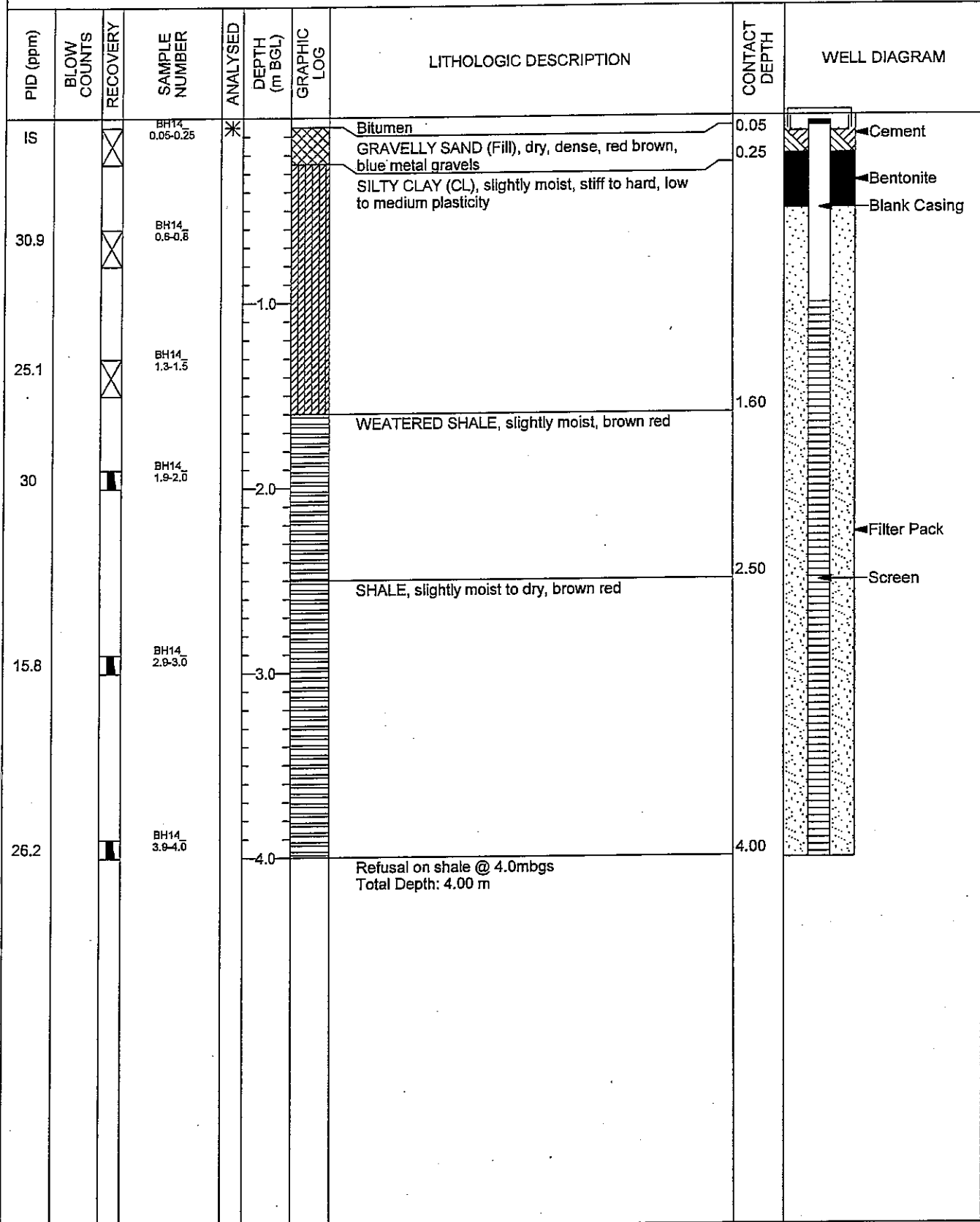
SCREEN 50mm Class 18 uPVC Factory Slotted Screen

GRAVEL PACK 2-3mm graded sand

SANITARY SEAL/BENTONITE Bentonite pellets

STABILISED WATER LEVEL

GROUND WATER ELEVATION



PROJECT NUMBER S4062801

DATE 30/05/2006

PROJECT NAME Austalnd Industrial No.122 Pty Ltd

SURFACE ELEVATION

LOCATION 396 Lane Cove Road, Macquarie Park

STABILISED WATER LEVEL

DRILLING METHOD Push tube

GROUND WATER ELEVATION

SAMPLING METHOD Push tube

LOGGED BY B. Pearce

COMMENTS

PID (ppm)	BLOW COUNTS	RECOVERY	SAMPLE NUMBER	ANALYSED	DEPTH (m BGL)	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
11.9			BH15 0.15-0.35	*			Concrete	0.15
							SAND with minor gravel (Fill), slightly moist, dense, orange white, sandstone gravels and ironstones	0.35
							SILTY CLAY (CL), slightly moist, stiff to hard, low to medium plasticity, orange white, ironstone gravels	
32.9			BH15 0.6-0.8	*				
28.3			BH15 1.0-1.2		1.0			
							Limit of investigation @ 1.2mbgs Total Depth: 1.20 m	1.20

MONITORING WELL LOG BH16/MW04

PROJECT NUMBER S4062801 DATE 30/05/2006
PROJECT NAME Austalund Industrial No.122 Pty Ltd BLANK 50mm Class 18 uPVC Casing
LOCATION 396 Lane Cove Road, Macquarie Park SCREEN 50mm Class 18 uPVC Factory Slotted Screen
DRILLING METHOD Solid flight auger/Push tube GRAVEL PACK 2-3mm graded sand
SAMPLING METHOD Solid flight auger/Push tube SANITARY SEAL/BENTONITE Bentonite pellets
SURFACE ELEVATION _____ STABILISED WATER LEVEL _____
WELL HEAD/TOC _____ GROUND WATER ELEVATION _____
LOGGED BY B. Pearce

COMMENTS

PID (ppm)	BLOW COUNTS	RECOVERY	SAMPLE NUMBER	ANALYSED	DEPTH (m BGL)	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
15.1		X	BH16 0.1-0.3	*			Bitumen SAND with minor gravel (FILL), dry, dense, olive grey, minor blue metal gravels	0.05 0.30	Cement Bentonite Blank Casing
12.6		X	BH16 0.6-0.8	*			SILTY CLAY (CL), dry to slightly moist, stiff to hard, low plasticity, grey/red brown		
					1.0				
							WEATHERED SHALE, slightly moist, grey/brown, strong hydrocarbon odour	1.30	
115		I	BH16 1.9-2.0	*					Filter Pack Screen
					2.0				
							SHALE, slightly moist, grey/brown, hydrocarbon odour	2.40	
26		I	BH16 2.9-3.0	*					
					3.0		Refusal on shale @ 3.0mbgs Total Depth: 3.00 m	3.00	

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LOG OF SOIL BORING**BH17**PROJECT NUMBER S4062801DATE 30/05/2006PROJECT NAME Austalund Industrial No.122 Pty Ltd

SURFACE ELEVATION _____

LOCATION 396 Lane Cove Road, Macquarie Park

STABILISED WATER LEVEL _____

DRILLING METHOD Push tube

GROUND WATER ELEVATION _____

SAMPLING METHOD Push tubeLOGGED BY B. Pearce

COMMENTS _____

PID (ppm)	BLOW COUNTS	RECOVERY	SAMPLE NUMBER	ANALYSED	DEPTH (m BGL)	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
15.3			BH17_0.17-0.3	*			Concrete	0.17
27.2			BH17_0.4-0.6	*			SAND with minor gravel (Fill), dry, dense, orange/grey, sandstone gravels	
								0.50
							SILTY SAND with minor gravel (CL), slightly moist, stiff, low to medium plasticity, brown to grey orange, ironstone gravels	
20.9			BH17_1.0-1.2		1.0			
							Refusal on shale @ 1.2mbgs Total Depth: 1.20 m	1.20



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LOG OF SOIL BORING

HA01

PROJECT NUMBER S4062801 DATE 29/05/2006
PROJECT NAME Austalund Industrial No.122 Pty Ltd SURFACE ELEVATION _____
LOCATION 396 Lane Cove Road, Macquarie Park STABILISED WATER LEVEL _____
DRILLING METHOD Hand Auger GROUND WATER ELEVATION _____
SAMPLING METHOD Grab
LOGGED BY S.Hay
COMMENTS _____

PID (ppm)	BLOW COUNTS	RECOVERY	SAMPLE NUMBER	ANALYSED	DEPTH (m BGL)	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
0			HA01 0.0-0.1	*			SILT, (Fill), dry, dense, black/grey, roots & rootlets, no odour	
0			HA01 0.5-0.6	*			SILT, (Fill), dry, dense, black/grey, sandstone gravel, no odour	0.40
							Limit of investigation @ 0.6mbgs Total Depth: 0.60 m	0.60

PROJECT NUMBER S4062801

DATE 29/05/2006

PROJECT NAME Austalind Industrial No.122 Pty Ltd

SURFACE ELEVATION

LOCATION 396 Lane Cove Road, Macquarie Park

STABILISED WATER LEVEL

DRILLING METHOD Hand Auger

GROUND WATER ELEVATION

SAMPLING METHOD Grab

LOGGED BY S.Hay

COMMENTS

PID (ppm)	BLOW COUNTS	RECOVERY	SAMPLE NUMBER	ANALYSED	DEPTH (m BGL)	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
0			HA02 0.0-0.1	*			SILT, (Fill), dry, dense, black/grey, roots & rootlets, no odour	
0			HA02 0.3-0.4				SILT, (Fill), dry, dense, black/grey, sandstone gravel & cobbles, no odour	0.30
0			HA02 0.5-0.6	*				0.60
Limit of investigation @ 0.6mbgs Total Depth: 0.60 m								

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LOG OF SOIL BORING**HA03**PROJECT NUMBER S4062801DATE 29/05/2006PROJECT NAME Austalund Industrial No.122 Pty Ltd

SURFACE ELEVATION _____

LOCATION 396 Lane Cove Road, Macquarie Park

STABILISED WATER LEVEL _____

DRILLING METHOD Hand Auger

GROUND WATER ELEVATION _____

SAMPLING METHOD GrabLOGGED BY S.Hay

COMMENTS _____

PID (ppm)	BLOW COUNTS	RECOVERY	SAMPLE NUMBER	ANALYSED	DEPTH (m BGL)	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
17.5			HA03 0.1-0.2				Bitumen	0.10
2.8			HA03 0.2-0.3				GRAVELLY SAND, (Fill), dry, dense, no odour	0.20
							SANDY CLAY (SC), slightly moist, medium stiffness, medium plasticity grey mottled orange, ironstone gravel	0.40
2.8			HA03 0.4-0.5				SANDY CLAY (SC), dry, very stiff, low plasticity, grey mottled red, ironstone gravel	0.50
							Refusal on hard clay @ 0.5mbgs Total Depth: 0.50 m	

LOG OF SOIL BORING

HA04

PROJECT NUMBER S4062801

DATE 29/05/2006

PROJECT NAME Austaland Industrial No.122 Pty Ltd

SURFACE ELEVATION

LOCATION 396 Lane Cove Road, Macquarie Park

STABILISED WATER LEVEL

DRILLING METHOD Hand Auger

GROUND WATER ELEVATION

SAMPLING METHOD Grab

LOGGED BY S.Hay

COMMENTS

PID (ppm)	BLOW COUNTS	RECOVERY	SAMPLE NUMBER	ANALYSED	DEPTH (m BGL)	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
0			HA04 0.0-0.1	*			SILT, (Fill), slightly moist, dense, black/grey, roots & rootlets, brick fragments and sandstone gravel, no odour	
5.5			HA04 0.45-0.5				SILTY SAND (Fill), slightly moist, medium density, black, no odour	0.40
7.4							SANDY CLAY (SC), dry, very stiff, low plasticity, grey mottled red, ironstone gravel	0.45
							Refusal on hard clay @ 0.5mbgs Total Depth: 0.50 m	0.50



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LOG OF SOIL BORING

HA05

PROJECT NUMBER S4062801 DATE 29/05/2006
PROJECT NAME Austalund Industrial No.122 Pty Ltd SURFACE ELEVATION _____
LOCATION 396 Lane Cove Road, Macquarie Park STABILISED WATER LEVEL _____
DRILLING METHOD Hand Auger GROUND WATER ELEVATION _____
SAMPLING METHOD Grab
LOGGED BY S.Hay
COMMENTS _____

PID (ppm)	BLOW COUNTS	RECOVERY	SAMPLE NUMBER	ANALYSED	DEPTH (m BGL)	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
3.8			HA05 0.0-0.1				SILTY SAND, (Fill), dry, very loose, light brown/grey, sandstone gravel, no odour	
8.8			HA05 0.4-0.5				SANDY CLAY (SC), dry, hard, low plasticity, light brown, ironstone gravel	0.40
							Refusal on hard clay @ 0.5mbgs	0.50
							Total Depth: 0.60 m	0.60