

REPORT

TO

SYDNEY ADVENTIST HOSPITAL LTD

ON

STAGE 1 ENVIRONMENTAL SITE ASSESSMENT

FOR

PROPOSED HOSPITAL UPGRADE DEVELOPMENT
(STAGE 1)

ΑT

185 FOX VALLEY ROAD, WAHROONGA

APRIL 2009 REF: E22758K-RPT



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1 INTRODUCTION

Sydney Adventist Hospital Ltd commissioned Environmental Investigation Services (EIS), a division of Jeffery & Katauskas Pty Ltd (J&K), to undertake a Stage 1 environmental site assessment to assess the likelihood of contamination of the subsurface soils and groundwater for Stage 1 of a proposed hospital upgrade development at 185 Fox Valley Road, Wahroonga. The site is identified as Lot 621 DP 1128314 and at the time of this investigation was occupied by existing hospital buildings and facilities. The site location is shown on Figure 1 and the investigation was confined to the site boundaries as shown on Figure 2.

The screening was undertaken generally in accordance with an EIS proposal of 2 March 2009 and a consultant's agreement between Sydney Adventist Hospital Ltd (the client) and Jeffery and Katauskas Pty Ltd trading as Environmental Investigation Services of 10 March 2009.

This investigation was targeted at the areas of concern associated with Stage 1 of the proposed hospital re-development. The proposed Stage 1 development works include:

- re-development of the existing on-grade carpark in the north section of the site to include a multi-storey parking structure and entry concourse;
- construction of a new concourse building between the existing San Clinic and CSB buildings; and
- construction of a paved on-grade carpark in the north-east section of the site.

This report describes the investigation procedures and presents the results of the environmental site assessment, together with comments, discussion and recommendations.

A geotechnical investigation was performed concurrently with the environmental site screening by J&K and the results are presented in a separate report (Ref. 22758ZARPT).

2 ASSESSMENT OBJECTIVES

2.1 Investigation Objectives

The primary objective of the investigation was to assess the risk of widespread soil and groundwater contamination of the investigation areas in relation to the suitability of the investigation areas for the proposed land use in accordance with the Guidelines for Consultants Reporting on Contaminated Sites NSW DECC (formerly the EPA) 1997 and the State Environmental Planning Policy No.55 – Remediation of Land (SEPP55).



A secondary investigation objective was to undertake a waste classification assessment for off-site disposal of excavated soil and rock associated with the proposed development works.

2.2 Scope of Work

The scope of work undertaken to achieve the objective included:

- Assessment of historical site use, including review of historical aerial photographs, land title records search, review of the deposited plan and development applications/building approvals held by Council;
- Review of regional geology and groundwater conditions, including the location
 of registered groundwater bores and major underground services in the vicinity
 of the site;
- Search of WorkCover records for licenses to store Dangerous Goods and investigation/remediation orders issued by the NSW DECC (EPA).
- Design and implementation of a field sampling program;
- 5. Laboratory analysis of selected soil and groundwater samples; and
- Preparation of a report presenting the results of the assessment of potential soil and groundwater contamination.

Field work for this investigation was undertaken from 12 March 2009 to 27 March 2009.

2.3 Data Quality Objectives

The purpose of Data Quality Objectives is to develop criteria to assess the reliability of the laboratory data. The Data Quality Objectives established for this project are summarised below:

- Collection and analysis of 10% of the field samples as intra-laboratory duplicates.
- Relative percentage differences (RPDs) were calculated for intra-laboratory duplicates. The RPD was calculated as the absolute value of the difference between the initial and repeat result divided by the average value, expressed as a percentage. The following acceptance criteria were used to assess the RPD results:
 - For results that were greater than 10 times the Practical Quantitation Limit (PQL) RPDs less than 50% were considered acceptable.
 - For results that were between 5 and 10 times PQL RPDs less than 75% were considered acceptable.



- For results that were less than 5 times the PQL RPDs less than 100% were considered acceptable.
- Review of laboratory QA/QC data (including surrogate recovery, repeat analysis, duplicates, matrix spikes and method blanks).

The success of the Data Quality Objectives is based on assessment of the data set as a whole and not on individual acceptance or exceedance within the data set.

3 SITE INFORMATION

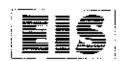
3.1 Site Description

The site identification details are summarised below:

Site Owner:	Australasian Conference Association Ltd	
Site Address:	185 Fox Valley Road, Wahroonga	
Lot & Deposited Plan:	Lot 621 DP 1128314	
Local Government Authority:	Ku-ring-gai Council	
Proposed Development Area:	Area 1 - 11,800m2; and	
	Area 2 - 5,000m2	
AHD:	Approximately 160-170m	
Geographical Location (MGA):	N: 6265760 E: 323940 (approximately)	
Site Locality Plan:	Refer to Figure 1	
Site Layout Plan	Refer to Figure 2	

The Sydney Adventist Hospital (referred to as 'the San' within this report) is located on the west side of Fox Valley Road, approximately 80m to the north of the intersection with The Comenarra Parkway and lies within an undulating regional topographic setting. The majority of the hospital site is characterised by consistent slopes that typically fall away from the central-east section of the site (presently occupied by the H. E. Clifford Tower Block). The areas to the south of this section typically fall towards the south and south-west at slopes ranging from approximately 3-6°. The areas to the north and west of this section generally fall towards the north-west and west, towards Coups Creek, at slopes ranging from approximately 3-6°. Slightly steeper slopes were observed in the north and west sections of the hospital grounds.

At the time of the investigation, the site was occupied by the San which was comprised of various buildings used to accommodate the services provided by the hospital. A description of the main site buildings and surrounding areas is detailed below. For the building locations, reference should be made to Figure 2.



The investigation was confined to two separate areas of the hospital grounds. Investigation area one included:

- the central north visitors carpark located to the north-west of the San Clinic;
 and
- The area between and to the north-west of the San Clinic and A.K. Tulloch
 Theatre Block, into the central north visitors carpark.

Investigation area two was located in the north section of the hospital grounds and included an existing carpark area and surrounding unpaved areas. The investigation areas are shown on the attached Figure 2.

Fox Valley Community Centre and North-East Sector

The Fox Valley Community Centre building was located in the north section of the site, between bushland and the paved carpark area. The building was of sandstone block, timber and metal clad construction. A carpark partially surfaced with gravel and partially paved with asphaltic concrete and was located to the east of the building. The pavement was in relatively poor condition. Mulch stockpiles were located in the west section of the carpark. The area to the north-west of the carpark was grassed, with some scattered trees and extended to adjacent bushland. The carpark generally fell towards the north-west at a slope of approximately 3-4°.

A grassed fill mound was located adjacent to the south-east extent of the carpark and an open grassed area extended further to the east and south of the carpark. The grassed area generally fell towards the north-west at a slope consistent with that of the carpark. Several single storey brick residences bounded the grassed area to the south-east and bushland bounded the grassed area to the north-east. A grassed stormwater basin was located in the west section of the grassed area.

A staff carpark was located to the west and south-west of the grassed area and stormwater basin. The western extent of the carpark fell towards the north-west at a slope of approximately 3-5°.

A.K. Tulloch Theatre Block, San Clinic and the Central-North Sector

The central-north section of the site was occupied by a relatively new multi-storey brick building (A. K. Tulloch Theatre Block also known as Clinic Services Block), a relatively new multi-storey brick building over a multi-storey carpark (San Clinic) and an outdoor carpark.



The outdoor carpark was located to the north-west of the buildings and generally fell to the north and north-east at a slope of approximately 5°. The carpark was tiered into three sections to accommodate the slope. Grassed garden beds were located throughout the carpark. The carpark was paved with asphaltic concrete that appeared to be in relatively good condition with only a few cracks/potholes observed.

The staff carpark located in the north-east sector fell towards the north-west creating an unconfined central drainage channel.

Grassed areas and a grassed stormwater basin were located to the north of the outdoor carpark. Bushland was located further to the north and north-west. An above ground liquid oxygen tank was located in the west section of the outdoor carpark.

The A.K. Tulloch Theatre Block and San Clinic were located to the south-east of the carpark and appeared to have been partially cut into the north-west facing hill slope. Several retaining walls were located to the south of the carpark/San Clinic to retain the areas to the south approximately 10-12m above the carpark. Batter slopes were observed to the west and east of the A.K. Tulloch Theatre Block and San Clinic respectively. A concrete paved walkway with stairs extended between the two buildings.

H. E. Clifford Tower Block, Physic Therapy/Maternity Wing and Shannon Building

The H. E. Clifford Tower Block was located to the south-east of the A. K. Tulloch Theatre Block in the central-east section of the site. The Tower block was a multistorey brick building and was connected with the newer theatre block.

A grassed area known as the 'village green' was located to the north-east of the tower block and generally fell towards the east and north-east at a slope of approximately 3°.

The physiotherapy/maternity wing (Women's Health), located to the south of the tower building, was of brick construction and appeared to be inter-connected to the tower block. An above ground fuel storage tank (possibly containing diesel) was located to the east of the physiotherapy/maternity building, adjacent to the emergency bays. The tank was cylindrical in shape, measuring approximately 3m in length with a diameter of approximately 1.6m, and was surrounded by a brick bund. There were no obvious signs of spills surrounding the tank.

A relatively small liquid oxygen tank was located near the driveway to the south/west of the physiotherapy/maternity building.



Retaining walls were located to the west of the physiotherapy/maternity wing, retaining the site several metres above Fox Valley Road.

The Shannon Building was located to the west of the tower block. The three storey building was of brick construction and appeared comparatively older than the surrounding buildings. Relatively small car parking areas were located in the surrounding areas.

Nurses Residence, Maintenance and Engineering Building

The Nurses Residence (female residence) and Maintenance and Engineering Building (workshops) were located to the west of the tower block and physiotherapy/maternity wing. The buildings were of brick or brick and metal clad construction. Asphaltic paved carparks were located to the north and south of the Maintenance and Engineering Building and to the east of the Nurses Residence.

The Maintenance and Engineering Building was partially used for the storage of machinery such as lawn mowers and trimmers. A small amount of fuel was being stored in jerry-cans within the maintenance building.

Information provided by site staff indicated that a former bowser and underground fuel storage tank was located in the vicinity of the north-west section of the Maintenance and Engineering Building. However, no evidence of the bowser, storage tank or any other fuel infrastructure was identified during the site inspection.

Areas in the vicinity of the Maintenance and Engineering Building generally fell towards the south and south-west at slopes of between 2-4°.

A childcare centre and associated carpark were located to the west of the Nurses Residence.

Materials Management and Business Office, Jacaranda Lodge and the West Sector

The Materials Management and Business Office building (stores) was located in the west section of the site and was of brick and metal clad construction. The areas beneath the north and west sections of the building appeared to have been filled in order to achieve the desired levels.

Paved carparks and a driveway were located to the north and west of the Materials Management and Business Office building. Retaining walls and small gardens/batters



were located between the building and the carpark/driveway. A swimming pool was located to the south.

A grassed stormwater basin was located to the south of the Materials Management and Business Office building and west of the swimming pool. The basin included batter slopes along the south, east and west sides with exposed soil. Some filling appeared to have been undertaken to create the batter slopes.

The Jacaranda Lodge was semi-detached and located to the north-east of the Materials Management and Business Office building. The lodge was a two storey building of brick construction. Small garden and landscaped areas surrounded the building. A tennis court was located to the east of the building, beyond an internal road. The area in the vicinity of the tennis court generally fell towards the north-west at a slope of approximately 4°. The north-west end of the tennis court was retained up to approximately 1.0m above the surrounding area to accommodate the slope.

General

The site is generally expected to drain to the north-west and west, towards Coups Creek. The majority of surface water at the site is expected to be collected by the numerous stormwater drains located throughout the carparks and other hardstand areas. Some infiltration of rainwater into the grassed and landscaped areas is also expected. Excess stormwater would be expected to collect in the grassed stormwater basins located in the central-north, north-east and west sections of the site.

High voltage electricity cables are understood to enter the site from Fox Valley Road in the vicinity of the main entrance driveway and extend towards the north section of the H. E. Clifford Tower Block.

Service pits for electricity and stormwater/sewage, together with hydrants were observed throughout the site.

3.2 Regional Geology and Hydrogeology

The 1:100,000 geological map of Sydney (Map 9130, 1:100,000 Department of Mineral Resources [now the Department of Primary Industries] – 1983) indicates the site to be nearby the boundary of areas underlain by Hawkesbury Sandstone and Ashfield Shale of the Wianamatta Group. Hawkesbury Sandstone typically consists of medium to coarse grained quartz sandstone with minor shale and laminite lenses. Ashfield Shale typically consists of black to dark grey shale and laminite.



Department of Water and Energy (DWE) records were researched for the investigation and indicated that one registered groundwater bore lies within 1km of the site. The well (ref: GW107929), installed to a depth of approximately 180m, was located to the north-west of the site beyond Coups Creek and was registered for recreational use. The well was installed on the portion of land included in Lot 621 DP 1128314 located to the north-west of Coups Creek.

The stratigraphy of the site is expected to consist of residual clayer soils overlying relatively shallow bedrock. Based on these conditions groundwater is not considered to be a significant resource in the immediate area of the site.

4 SITE HISTORY ASSESSMENT

4.1 Aerial Photographs

Aerial photographs were reviewed as part of the assessment of the site history. The following information was obtained:

A large grassed courtyard area was located in the central-east section of the site, adjacent to Fox Valley Road, which appeared unpaved. A group of small to medium sized buildings was located adjacent and to the south-west of the courtyard. A large area of market gardens/orchards was located to the north and west of the courtyard and group of buildings. An additional large market garden area was located further to the north. A smaller market garden area was located to the south-west of the group of buildings and extended to The Comenarra Parkway, which appeared narrow and unpaved. Some small buildings/sheds were located to the south-west of the group of buildings, to the west of the market gardens. Some small to medium sized areas to the west of the group of buildings appeared unpaved. The remaining vacant areas appeared grassed.

Coups Creek was located to the west of the site, within a larger area of bushland, and extended in a north-west to south-east orientation. Some relatively small cultivated areas and houses were located on the east side of Fox Vailey Road. Bushland was located further to the east. Some small buildings/houses were located to the south of The Comenarra Parkway, which terminated approximately 300m to the west of the site. Some small medium density residential areas were located to the north (beyond Coups Creek) and north-east of the site.



A group of medium to large sized buildings were located adjacent and to the south-west of the central courtyard area. The east and south most buildings appeared similar to part of the existing women's health building. A medium sized building was located in the south-east corner of the site. Additional small buildings/sheds were located to the west of the group of buildings. The former market garden areas appeared vacant and grassed, except for two small areas to the west of the group of buildings. A treed area was located to the south-east of the group of buildings and extended north along the west side of Fox Valley Road.

A row of houses was located to the north-east of the site along the west side of Fox Valley Road. A medium sized building was located to the south of the site on the corner of Fox Valley Road and The Comenarra Parkway. Additional medium density residential areas were located to the south of The Comenarra Parkway. Residential buildings were located to the south-east of the site on the corner of Fox Valley Road and The Comenarra Parkway and appeared similar to the existing buildings.

1961 - Some of the buildings in the central group of buildings appeared to have been extended. The building in the south-east corner of the site appeared to have been demolished. An additional building was located immediately south of the central group of buildings and appeared similar to part of the existing female residence building. Some cultivated land was located west and south-west of the central group of buildings and extended to the small buildings/sheds.

A large building was located to the north of the central courtyard, on the west side of Fox Valley Road, that appeared similar to the existing church. A medium sized building was located to the south-east of the site that appeared similar to the existing school building on the corner of Fox Valley Road and The Comenarra Parkway.

1970 - Some of the buildings in the central section of the site appeared to have been extended. A relatively small building was located in the west section of the central group and appeared similar to the existing male residence building.

Houses were located along the majority of Fox Valley Road. The medium density residential areas to the south of The Comenarra Parkway had



been extended and included houses along the north side of the road, to the south-west of the site. A medium sized building was located to the south-east of the intersection of Fox Valley Road and The Comenarra Parkway and appeared similar to the existing shopping centre.

1978 -A large, tall building had been constructed on the north-east side of the central group that fronted the courtyard. The building appeared similar to the existing tower building. A medium sized building had been constructed to the north of the tower building and was understood to have been the former activities building. The courtyard area appeared similar to the existing Village Green. A new building had been constructed in the south-east corner of the site that appeared similar to the existing Fox Valley Medical and Dental Centre. The south-most building of the group had been extended and appeared similar to the existing female (nurse's) residence building. A large paved carpark had been constructed to the north-west of the Village Green. A swimming pool was located to the west of the central group of buildings. A ring road (internal) had been constructed around the central group of buildings. The majority of small buildings/sheds in the west section of the site had been demolished.

The building to the south-east of the site, on the corner of Fox Valley Road and The Comenarra Parkway had been extended and appeared similar to the existing school building. Some clearing had been undertaken to the north-west of the site, beyond Coups Creek, and Mount Pleasant Avenue appeared to be under construction. The Comenarra Parkway had been completed and extended west from the intersection with Fox Valley Road.

 A new building had been constructed immediately to the south-west of the central group that appeared similar to the existing workshop building.
 The remainder of the site appeared similar to the 1978 photograph.

Additional clearing had been undertaken to the north-west of the site and buildings had been constructed that appeared similar to the existing retirement village buildings. Mount Pleasant Avenue appeared to have been completed.

 1994 - A relatively large building had been constructed to the north-west of the tower building and south-west of the activities building that appeared



similar to the existing clinical services block. A building had been constructed adjacent to the services block building (at the rear of the tower building) that appeared similar to the existing women's health (maternity wing) building. A relatively large building had been constructed to the west of the central group that appeared similar to the existing stores building.

The surrounds appeared similar to the 1986 photograph.

The activities building had been demolished and a new, slightly larger building had been constructed that appeared similar to the existing San Clinic. A building had been constructed to the south-west of the female residence building that appeared similar to the existing child care centre building. A medium sized building had been constructed adjacent to and to the north-east of the stores building that appeared similar to the existing Jacaranda Lodge. Two small buildings had been constructed to the south of the central group and the ring road. A medium sized building was located to the north of the paved carpark and north-west of the church. Two small paved carparks were located to the north-east and east of the building, respectively.

The surrounds appeared similar to the 1994 photograph, except that the retirement village to the north-west of the site appeared to have been completed and included large areas of residential villas.

4.2 Land Title Search

A limited historical land title search was performed on our behalf by Advance Legal Search. Details are presented in Appendix C and a summary of the relevant information is provided below:

Registration Date	Proprietor
Part Portions 29 &	: 30 Parish Gordon
1870	Richard Battleff Evans, labourer
1895	Elizabeth Sharpe Evans, widow
1901	Frederick Lacey Sharp (business manager), John Allen Burbery
	(business manager), Daniel Kness (physician), Eugene William
	Farnsworth (minister of gospel) and Merritt Gardiner Kellogg
	(architect)
1903	The Sydney Sanitarium and Benevolent Association Limited



Part Portion 31 Pa	rrish Gordon			
1877	Alexander Bowman, grantee			
1885	Austin Torange, esquire			
1935	Perpetual Trustee Company (Limited) - 72 Acres			
1939	Perpetual Trustee Company (Limited) - 54 Acres 2 Roods 31 1/2			
	Perches			
1941	Australasian Conference Association Limited			
	Traderalization Contraron of Production Entitled			
Part Partian 20 Pa	vich Cordon			
Part Portion 30 Pa 1890	1			
	Joshua Reubon Johnson, minor			
1901	Frederick Lacey Sharp (business manager), John Allen Burbery			
	(business manager), Daniel Kness (physician), Eugene William			
	Farnsworth (minister of gospel) and Merritt Gardiner Kellogg			
	(architect)			
1903	The Sydney Sanitarium and Benevolent Association Limited			
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Part Portions 29 8	30 Parish Gordon			
1910	Alexander Gordon Waugh, orchardist (17 Acres 0 Roods 10 1/2			
	Perches)			
1920	Australasian Conference Association Limited (16 Acres 3 Roods			
	18 Perches)			
	To Folkings,			
Part Partiana 20 8	a 30 Parish Gordon			
h				
1918	Australasian Conference Association Limited (75 Acres 1 Roods			
	18 Perches)			
1931	Australasian Conference Association Limited (74 Acres 0 Roods			
	3 % Perches)			
Grant of Closed-	1 Acre, 2 Rood 4 ½ Perches			
1936	Australasian Conference Association Limited			
Portion 30 and pa	ort Portions 28, 29 & 31 and 1 Acre 2 Roods 4 ½ Perches Grant,			
	South Colah (159 Acres 1 Roods 37 ½ Perches)			
1949	Australasian Conference Association Limited			
1955-1958	Lease to Walter George Fredericks, storekeeper, and Margaret			
1900-1900	· · · · · · · · · · · · · · · · · · ·			
1062	Lucy Fredericks, of part			
1963	Australasian Conference Association Limited (159 Acres 0 Roods			
1,004,4000	25 Perches)			
1994-1998	Various commercial leases (Lot 14 DP 834969)			
1998-2000	Various commercial teases (Lot 53 DP 880017)			
2000-2008	Various commercial leases (Lot 62 DP 1017514)			
Lot 621 DP 11283	314			
2008	Australasian Conference Association Limited			
2008-current	Various commercial leases			
I	IL			



The land search has not indicated any particular land use that may be considered to have resulted in significant contamination of the soil and groundwater at the site.

4.3 Council Records

A search of Development Application (DA) and Building Approval (BA) records/the property file held by Ku-ring-gai Council was undertaken on behalf of EIS. The results of the search are presented in Appendix D and key information is summarised below:

- 1990 DA, new building to house laundry facilities;
- 1991 BA, new carpark;
- 1993 DA, new hospital wing;
- 1994 DA, new emergency unit;
- 1994 DA, construction of cancer support centre;
- 1995 BA, Centre for Health Management;
- 1998 BA, roadway for laundry service;
- 1997 BA, Jacaranda Lodge (Stage 2);
- 1997 DA, additional carparking;
- 1998 DA, new multi-level car park structure;
- 2001 DA, demolition and new medical centre;
- 2001 DA, community centre;
- 2001 Construction Certificate (CC), child care centre and carpark;
- 2002 DA, demolish sheds and fuel storage area;

4.4 WorkCover Database Records

A records search for licenses to store dangerous goods was undertaken on our behalf by WorkCover. The records included licences to store various gases and liquids at the site. The majority of stores on the licenses were associated with general hospital use and included oxygen, carbon dioxide, liquefied petroleum gas (LPG), some acids (roofed store), turpentine and some toxic liquids and pesticides.

The license (ref: 35/014066) included five stores for petroleum fuel. These were:

- An above ground diesel tank (15,000L) at the south-west of the workshop building;
- An above ground diesel tank (20,000L) at the south-west of the workshop building;
- An underground diesel tank (12,000L) adjacent and to the south-west of the clinical services building (theatre block);



- An above ground diesel tank (2,500L) adjacent and to the south-east of the tower building, at the rear of the substation. Two smaller tanks are located within the substation building to power backup generators; and
- A flammable good cabinet in the gardeners section of the workshop building licensed to store 100L of petroleum.

The records also indicated licenses for a 3,000L Underground Storage Tank (UST) that was replaced by a similarly sized UST in 1971. The location these USTs could not be confirmed, however, they appeared to be at the rear (south-west) of the workshop building.

The records did not indicate any licenses to store dangerous goods on either of the investigation area for Stage 1 of the proposed development works.

4.5 NSW EPA Records

A search of the NSW EPA on line database did not indicate the existence of any DECC (EPA) notices for the site under section 58 of the Contaminated Land Management Act (1997).

The database included a license (No. 6546) for the site for hazardous, industrial or group A water generation or storage. The license is related to hospital activities and allows production of 100-500T of waste. The license status is listed as 'no longer in force'.

4.6 SAH Online History and Staff Interviews

Sydney Adventist Hospital website (<u>www.sah.org.au</u>) includes a 'History of the San' section. The information included:

- The hospital opened as 'The Sydney Sanitarium' in 1903 with a 70 bed capacity and became known at 'the San'; and
- The hospital was rebuilt in 1973 and is currently licensed for a 342 bed capacity.

Information provided to EIS by staff of the San indicated the following:

- The women's health (maternity) wing was constructed in the 1930's and was extended in the 1980's;
- The tower building was constructed in 1973;
- The linen building was added as an extension to the services block in 1980;
- The CSB was constructed in 1993; and



The San Clinic building was constructed in 2002.

4.7 Assessment of Historical Information Integrity

The site history assessment has generally been obtained from: government records including the NSW land titles office, historical archives, historical aerial photographs and NSW WorkCover records. The veracity of the information from these sources is considered to be high, however, given the age of the development and the lack of information available on activities prior to 1930's, a certain degree of information loss is to be expected.

Non verifiable anecdotal information has not been relied upon during assessment of historical site use. Therefore, there is considered to be a high level of integrity associated with information obtained with respect to historical use of the site.

4.8 Summary of Historical Site Use

The search of historical information has indicated the following:

- The site has been used for hospital purposes since approximately 1903;
- Several hospital buildings were constructed and demolished between 1903 and 1973 in the central-east section of the site;
- Areas of market gardens and agriculture were located to the south-west and west of the central group of building at the site prior to the 1980's;
- The existing 'tower building' was constructed in 1973;
- There are no recorded notices listed on the NSW DECC CLM register and WorkCover have no records of underground storage tank licenses issued for the investigation areas for Stage 1 of the proposed development works.

4.9 Potential Contamination Sources

4.9.1 General Contamination Processes

Contamination of surface and subsurface soils generally arises from previous land use that can include petroleum hydrocarbon and warehouse storage, manufacturing processes and pesticide and fertiliser usage. Imported fill soils may contain contaminants derived from unknown sources. Migration of contaminants can occur in permeable subsurface soil or fill materials and via man-made and natural drainage systems. The extent of contamination migration is dependent on the hydro-geological environment and the chemical and physical characteristics of the contaminants. Contamination migration in clayey soils can be expected to be limited, whilst sandy soils are conducive to greater spatial migration.



Backfill to service trenches can form contamination migration pathways via poorly compacted or permeable backfill. Backfill may also be contaminated.

The general history of contamination of sites in the Sydney region indicates that analysis for heavy metals including lead, copper and zinc should be incorporated in the schedule of laboratory testing. In addition screening tests should be performed on selected samples for polycyclic aromatic hydrocarbons (PAHs), organochlorine pesticides (OCs), polychlorinated biphenyls (PCBs), petroleum hydrocarbons (TPH), monocyclic aromatic hydrocarbons (BTEX) and asbestos.

4.9.2 Potential Site Specific Contamination

Potential contamination at the site would be anticipated to be associated with:

- Potentially contaminated, imported fill material;
- Historical use of pesticides in areas of former agricultural use; and
- Migration of contaminants associated with storage of fuel in the central section of the site.

4.9.3 Site Specific Contaminants of Concern

The compounds identified as soil contaminants of concern at the subject site include:

- Heavy metals: arsenic, cadmium, chromium, copper, lead, mercury, nickel and zinc;
- Total petroleum hydrocarbons (TPH);
- Monocyclic aromatic hydrocarbon (BTEX) compounds: Benzene, Toluene, Ethyl Benzene and Xylenes;
- Polycyclic aromatic hydrocarbons (PAHs) including Benzo(a)pyrene;
- Organochlorine pesticides (OCPs): Aldrin, dieldrin, DDT, chlordane, etc;
- Organophosphorus pesticides (OPPs);
- Polychlorinated Biphenyls (PCBs); and
- Asbestos.

The compounds identified as groundwater contaminants of concern at the subject site include:

- Heavy metals: arsenic, cadmium, chromium, copper, lead, mercury, nickel and zinc;
- Total petroleum hydrocarbons (TPH); and



 Monocyclic aromatic hydrocarbon (BTEX) compounds: Benzene, Toluene, Ethyl Benzene and Xylenes.

4.10 Potential Receptors

The main potential contamination receptors are considered to include:

- Coups Creek located adjacent and to the north-west and west of the site.
- Site visitors, workers and adjacent property owners, who may come into contact with contaminated soil and/or be exposed to contaminated dust arising from construction activity.
- Future site occupants.

4.11 Contaminant Laydown and Transport Mechanisms

At this site, mobile contaminants would be expected to move down to the rock surface and migrate laterally down-slope from the source. The movement of contaminants would be expected to be associated with groundwater flow and seepage at the top of the bedrock.

5 ASSESSMENT CRITERIA DEVELOPMENT

5.1 Regulatory Background

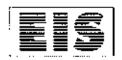
In 1997 the NSW Government introduced the *Contaminated Land Management Act,* 1997 (CLM Act). This act, associated regulations, State Environmental Planning Policy (SEPP) No.55 – Remediation of Land (1998) and associated NSW DECC (EPA) guidelines, were designed to provide uniform state-wide control of the management, investigation and remediation of contaminated land.

Prior to granting consent for any proposed rezoning or development, SEPP55 requires the consent authority to:

- consider whether the land is contaminated;
- consider whether the site is suitable, or if contaminated, can be made suitable by remediation, for the proposed land use;
- be satisfied that remediation works will be undertaken prior to use of the site for the proposed use.

Should the assessment indicate that the site poses a risk to human health or the environment, remediation of the site is required prior to commencement of the proposed development works. SEPP55 requires that the relevant local council be notified of all remediation works, whether or not development consent is required.

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Where development consent is not required, 30 days written notice of the proposed works must be provided to council. Details of validation of remediation work must also be submitted to Council within one month of completion of remediation works.

The consent authority may request that a site audit be undertaken during, or following the completion of the site assessment process. Under the terms of the CLM Act the NSW DECC (EPA) Site Auditor Scheme was developed to provide a system of independent review for assessment reports. An accredited Contaminated Site Auditor is engaged to review reports prepared by suitably qualified consultants to ensure that the investigation has been undertaken in accordance with the guidelines and confirm that the sites are suitable for their intended use.

Section 59(2) of the CLM Act states that specific notation relating to contaminated land issues must be included on S.149 planning certificates prepared by Council where the land to which the certificate relates is:

- within an investigation or remediation area.
- subject to an investigation or remediation order by the DECC (EPA).
- the subject of a voluntary investigation or remediation proposal.
- the subject of a site audit statement.

Submission of contaminated site investigation and validation reports to council as part of rezoning or development application submissions may also result in notation of actual or potential site contamination on future S.149 certificates prepared for the site.

Section 60 of the CLM Act sets out a positive duty on an owner, or person whose activities cause contamination, to notify the DECC if they are aware that the contamination presents a significant risk of harm.

Off-site disposal of fill, contaminated material and excess soil/rock excavated as part of the proposed development works is regulated by the provisions of the Protection of the Environment Operations Act (POEO Act 1997) and associated regulations and guidelines including the *Waste Classification Guidelines Part 1: Classifying Waste. DECC NSW 2008.* All materials should be classified in accordance with these guidelines prior to disposal.

Section 143 of the *Protection of the Environment Operations Act 1997* states that if waste is transported to a place that cannot lawfully be used as a waste facility for that waste, then the transporter and owner of the waste are each guilty of an offence. The transporter and owner of the waste have a duty to ensure that the waste is disposed of in an appropriate manner.



In 2008 the NSW Government introduced the *Protection of the Environment Operations (Underground Petroleum Storage Systems) Regulation 2008* under the *Protection of the Environment Operations Act 1997*. This Regulation is designed to regulate the storage of petroleum in underground storage systems so as to minimise the risk of the discharge of substances that cause significant damage to the environment. The regulation has specific criteria that must be met for the: design and modification of new and existing storage systems; and repair and decommissioning of existing systems.

For new and existing storage systems this includes installation of ground water monitoring wells and preparation of environmental management plans. The regulations states that 'A storage system must not be used unless groundwater monitoring wells are installed on the storage site' and that the wells should be located 'with a view to maximising the likelihood that the wells will intercept contaminated groundwater'. The regulation makes a distinction between old and new storage systems. The following are defined as 'old storage systems':

- a storage system for which development consent had been obtained under the Environmental and Planning Assessment Act 1979 before 1 June 2008; or
- a storage system for which installation had lawfully commenced before 1.
 June 2008; or
- a storage system that had been commissioned before 1 June 2008.

Installation of groundwater wells and subsequent monitoring does not apply to 'old storage systems' until 1 June 2011. For new storage systems installation of groundwater wells and subsequent monitoring is a requirement as of 1 June 2008.

5.2 Soil Contaminant Threshold Concentrations

The soil investigation levels adopted for this investigation are derived from the NSW DEC (now DECC) document *Guidelines for the NSW Site Auditor Scheme (2nd Edition)* 2006 and the National Environmental Protection Council document *National Environmental Protection (Assessment of Site Contamination) Measure 1999.* The contaminant thresholds listed below are levels at which further investigation and evaluation is required to assess whether the site is considered suitable for the proposed urban land use.

To accommodate the range of human and ecological exposure settings, a number of generic settings are used on which the Health based Investigation Levels (HILs) can be



based. Four categories of HILs are adopted for urban site assessments. Contaminant levels for a standard residential site with gardens and accessible soil (Column A in Table A-1) are based on protection of a young child resident at the site. The remaining categories (Columns D to F) present alternative exposure settings where there is reduced access to soil or reduced exposure time. These categories include residential land use with limited soil access, recreational and public open space and commercial/industrial use. Where the proposed land use will include more than one land use category (eg. mixed residential/commercial development) the exposure setting of the most "sensitive" land use is adopted for the site.

Threshold concentrations for petroleum hydrocarbon contaminants including total petroleum hydrocarbons (TPH) and monocyclic aromatic hydrocarbon (BTEX) compounds have previously been established in the NSW DECC (EPA) Contaminated Sites: Guidelines for Assessing Service Station Sites (1994) publication and this document is referenced in the 2006 Site Auditor Guidelines. Heavy fraction petroleum hydrocarbon aliphatic/aromatic component threshold concentrations have also been introduced in the National Environmental Protection (Assessment of Site Contamination) Measure 1999 (NEPC Guidelines).

The Provisional Phyto-toxicity Investigation Levels (PPILs) are generic values based on phytotoxicity data for plant response to specific contaminants in a sandy loam matrix and are included in the contaminated site assessment where the proposed land use includes gardens and accessible soils.

The National Environmental Protection (Assessment of Site Contamination) Measure 1999 (NEPC Guidelines) do not provide numeric guidelines for the assessment of asbestos in soil. NSW DECC (EPA) advice (2006) has indicated that consultants should use their 'professional judgement' regarding determination of appropriate investigation and remediation levels for asbestos in soils; however the NSW DECC (EPA) have not published numerical guidelines for the assessment of asbestos in subsurface soils.

The WorkCover publication *Working with Asbestos Guide* (NSW WorkCover 2008) states that, where buried asbestos in encountered, "A competent occupational hygienist should assess the site to determine:

- If asbestos material is bonded or friable.
- The extent of asbestos contamination
- Safe work procedures for the remediation of the site"



"Any asbestos cement products that have been subjected to weathering, or damaged by hail, fire or water blasting are considered to be friable asbestos and an asbestos removal contractor with a WorkCover license for friable asbestos removal is required for its removal". Under the NSW Occupational Health and Safety (OHS) Regulations 2001 and WorkCover requirements all necessary disturbance works associated with asbestos containing materials must be conducted by a licensed AS-1 Asbestos Removal Contractor.

5.2.1 Site Assessment Criteria for Soil Contaminants

The 'park and recreational open spaces' exposure setting has been adopted for this assessment and the appropriate soil criteria are listed in the following table:

Site Soil Assessment Criteria (mg/kg)			
Contaminant	HIL Column E Exposure Setting	Guidelines for Assessing Service Station Sites (1994)	Phyto-toxicity Investigation Levels
Inorganics			
Arsenic (total)	200		20
Cadmium	100		3
Chromium (III)	24%		400
Copper	2000	:	100
Lead	600	:	600
Mercury (inorganic)	30		1
Nickel	600		60
Zinc	14000		200
Organic Contaminants	3		
TPH (Cs-Cs)		65	
TPH (C10-C36)		1000	
Benzene		1	
Toluene		1.4	
Ethylbenzene		3.1	
Total Xylenes		14	
Total PAHs	40		
Benzo(a)pyrene	2		
Aldrin + Dieldrin	20		
Chlordane	100		
DDT + DDD + DDE	400		
Heptachlor	20		
PCBs (Total)	20	}	

For the purpose of off-site disposal, the classification of soil into 'General Solid Waste', "Restricted Solid Waste" and 'Hazardous Waste" categories is defined by chemical



contaminant criteria outlined in *Waste Classification Guidelines Part 1: Classifying Waste. DECC NSW 2008.* These chemical contaminant criteria are summarised in Table A-2.

5.3 Evaluation of Soil Analysis Data and Contaminant Threshold Concentrations

Assessment of the soil analytical data using the soil contaminant threshold concentrations has been undertaken in accordance with the methodology outlined in the National Environmental Protection (Assessment of Site Contamination) Measure (1999) Schedule 7(a) Soil Investigation Levels and the statistical analysis methods outlined in the NSW EPA Contaminated Sites Sampling Design Guidelines (1995).

The following criteria have been adopted for assessment of the analytical data:

- For a site to be considered suitable for the proposed land use the 95% Upper Confidence Limit (UCL) value of the arithmetic mean concentration of each contaminant should be less than the applicable contaminant threshold concentration.
- The relevance of localised elevated values must also be considered and should not be obscured by consideration only of the arithmetic mean of the results. The results must also meet the following criteria:
 - the standard deviation of the results must be less than 50% of the soil assessment criteria; and
 - no single value exceeds 250% of the relevant soil assessment criteria.
- Where the concentration of each contaminant is less than the applicable contaminant threshold concentration (site assessment criteria) in all samples,
 UCL calculations may not be required and the suitability of the site for the proposed use may be assessed based solely on individual analytical results.

Where contamination results exceed the site criteria developed above a method of remediating the site is to physically and selectively remove the contamination hotspots from the site. This process should be continued until statistical analysis of the data meets the above criteria. Validation of the remediated site is generally required to demonstrate that the site is suitable for the proposed land use.

5.4 Groundwater Contaminant Trigger Values

Groundwater resources in NSW are managed and regulated by environmental and planning legislation, including the Protection of the Environment Operations (POEO) Act 1997, the Environmental Planning and Assessment Act (1979) and the Water Management Act (2000).



The 1999 NEPC Guidelines refer to trigger values presented in the ANZECC Australian Water Quality Guidelines (1992) and the NHMRC Australian Drinking Water Guidelines (2004). These guideline values define water quality parameters at the point of use including aquatic ecosystems (fresh and marine waters), drinking water, industrial and agricultural/irrigation uses.

In 2000, ANZECC released the Australian and New Zealand Guidelines for Fresh and Marine Water Quality which supersede the previous guideline documents. The ANZECC 2000 guidelines include a complete framework for the development of appropriate guidelines for aquifer assessment.

The appropriate settings for current and potential uses of groundwater should be identified in establishing applicable groundwater trigger values:

- raw drinking water source;
- agricultural use stock watering;
- agricultural and domestic use irrigation;
- protection of aquatic ecosystems freshwater; and
- protection of aquatic ecosystems marine.

5.4.1 Site Assessment Criteria for Groundwater Contaminants

The presence of elevated contaminant concentrations in groundwater triggers further investigation of aquifer conditions to assess the source(s) of contamination and the lateral and vertical extent of the contamination. The fresh groundwater trigger values have been adopted for this investigation. These concentrations are presented in the following table:



Site Groundwater Assessment Criteria (mg/L)			
Contaminant	95% Trigger Value for fresh water	Australian Drinking Water Guidelines	
Inorganics			
Arsenic	0.024	0.007	
Cadmium	0.0002	0.002	
Chromium	0.0033¹	0.05	
Copper	0.0014	2.0	
Lead	0.0034	0.01	
Mercury	0.0006	0.001	
Nickel	0.011	0.02	
Zinc	0.008	3.0^^	
Organics	-		
Benzene	0.95	0.001	
Toluene	0.18	0.8	
Ethyl benzene	0.08	0.3	
o-Xylene	0.35	i	
m + p Xylene	0.03		
Total Xylenes	-	0.6	
TPH C10-C36		0.6 *	

^{*}In the absence of locally endorsed guidelines, the Dutch intervention levels specified in 'Circular on target values and intervention values for soil remediation' (Ministry of Housing, Spatial Planning and the Environment 2000) have been quoted.

6 ASSESSMENT PLAN AND METHODOLOGY

This investigation was targeted at the areas of concern associated with Stage 1 of the proposed hospital re-development. For the purposes of determining the area of the proposed developments the site was split into:

- Area 1 The existing on-grade carpark and proposed concourse building area in the north section of the site; and
- Area 2 The proposed on-grade carpark area in the north-east section of the site.

The NSW DECC (EPA) Sampling Design Guidelines (1995) for contaminated site investigations states the minimum recommended sampling density for sites of various sizes. The guideline states that samples should be obtained at the following densities:

- Area 1 11,800m2, 22 evenly spaced sampling points; and
- Area 2 5,000m2, 13 evenly spaced sampling points.

^{^^} In the absence of a health based guideling the aesthetic guideling has been quoted.

^{&#}x27;In the absence of high reliability guideline concentration, a low or moderate reliability value has been adopted



Samples were obtained from approximately 50% of the recommended sampling location which included:

- Area 1 12 boreholes; and
- Area 2 6 boreholes.

This sampling density was considered adequate for a Stage 1 environmental site assessment.

The boreholes were drilled on a systematic sampling plan with a spacing of up to 40m between sampling points. A systematic sampling plan was considered most appropriate for this investigation as:

- no specific potential contaminant sources were identified by the available site history.
- the distribution of contamination is expected to be associated with imported potentially contaminated fill material and is therefore likely to be random.

Sampling was not undertaken beneath the existing buildings at the site as access was not possible during the field investigation.

7 INVESTIGATION PROCEDURE

7.1 Subsurface Investigation and Soil Sampling Methods

Subsurface investigations for the geotechnical investigation were undertaken using a track mounted hydraulically operated drill rig equipped with spiral flight augers. Soil samples were obtained from a Standard Penetration Test (SPT) sampler or directly from the auger when conditions did not allow use of the SPT sampler.

The SPT sampler was washed with phosphate free detergent and rinsed following each sampling event. The spiral flight augers were decontaminated using a scrubbing brush and potable water and Decon 90 solution (phosphate free detergent) followed by rinsing with potable water. Sampling personnel used disposable Nitrile gloves during sampling activities.

Additional environmental boreholes were drilled using a four-wheel-drive (4wd) mounted hydraulically push tube rig. Soil samples were obtained from disposable polyethylene push tube samplers. Sampling personnel used disposable Nitrile gloves during sampling activities.



Soil and rock samples were obtained at various depths, based on observations made during the field investigation. All samples were placed in glass jars with plastic caps and teflon seals with minimal headspace. Samples for asbestos analysis were placed in zip-lock plastic bags. During the investigation, soil samples were preserved by immediate storage in an insulated sample container with ice in accordance with AS 4482.1-2005 and AS 4482.2-1999 as summarised in the following table:

Analyte	Preservation	Storage
Heavy metals		Store at < 4°, analysis within 28
		days (mercury and Cr[VI]) and
	Unpreserved glass jar with Teflon	180 days (other metals).
VOČs (TPH/BTEX)	fined lid	Store at <4°, nil headspace,
PAHs, OC/PCBs		extract within 14 days, analysis
		within forty days
Asbestos	Sealed plastic bag	None

Each sample was labelled with a unique job number, the sampling location, sampling depth and date. All samples were recorded on the borehole logs presented in Appendix A and on the chain of custody (COC) record presented in Appendix B.

On completion of the fieldwork, the samples were delivered in the insulated sample container to a NATA registered laboratory for analysis under standard chain of custody procedures. Detailed EIS field sampling protocols are included in Appendix D.

7.1.1 Photoionisation Detector (PID) Screening

A portable PID was used in this investigation to assist with selection of samples for laboratory hydrocarbon (TPH/BTEX) analysis. The PID is sensitive to volatile organic compounds. The sensitivity of the PID is dependent on the organic compound and varies for different mixtures of hydrocarbons. Some compounds give relatively high readings and some can be undetectable even though present in identical concentrations. The portable PID is best used semi-quantitatively to compare samples contaminated by the same hydrocarbon source.

The PID is calibrated before use by measurement of an isobutylene standard gas. All the PID measurements are quoted as parts per million (ppm) isobutylene equivalents.

Photoionisation detector (PID) screening of detectable volatile organic compounds (VOC) was undertaken on soil samples using the soil sample headspace method. VOC



data was obtained from partly filled glass jar samples following equilibration of the headspace gases. The PID headspace data is included on the COC documents.

7.2 Groundwater Monitoring Well Installation and Water Sampling Methods

7.2.1 Drilling and Well (Temporary Standpipe) Installation

Two monitoring wells were installed at borehole locations (BH3 and BH17) as shown on Figure 2. The monitoring wells were installed as follows:

- Boreholes BH3 and BH17 were drilled to depths of approximately 6.97m and 6m, respectively.
- 50mm diameter Class 18 PVC was installed in the boreholes and consisted of unslotted PVC casing from the surface to 3m and machine slotted PVC screen from 3m to 6m.
- A 2mm graded sand filter pack was installed around the PVC to a height of 0.5m above the slotted PVC section.
- A bentonite seal was installed above the filter pack.
- Borehole cuttings were installed above the bentonite seal to approximately 0.5m below the ground surface.
- A concrete/cement grout was then used to seal the monitoring well with a gatic cover installed flush with the surrounding pavement.

The monitoring well construction details are documented on appropriate borehole logs presented in Appendix A.

7.2.2 Monitoring Well Development

Groundwater was purged from the monitoring wells using a submersible electric pump. During purging the pH, temperature, conductivity and redox potential were monitored (where possible) using calibrated field instruments to assess the development of steady state conditions. Both monitoring wells were purged until effectively dry to remove stagnant water and sediment from the monitoring wells prior to sampling to obtain samples representative of the general aquifer conditions.

The monitoring wells were allowed to recharge prior to sampling.

Groundwater removed from the wells during purging was transported to EIS, where the water is stored in a holding drum prior to collection by licensed waste water contractors. When the drum is filled a composite sample is analysed to classify the waste water for disposal.



7.2.3 Groundwater Sampling

Groundwater samples were obtained from the monitoring wells using disposable polyethylene bailers. During sampling, the pH, temperature, conductivity, redox potential and groundwater levels were monitored using calibrated field instruments. The sampling data sheets are presented in Appendix E and the calibration documentation for the instruments are presented in Appendix E.

Groundwater samples were obtained directly from the bailer and placed in appropriate glass bottles, BTEX vials or plastic bottles.

All samples were preserved in accordance with water sampling requirements detailed in the NEPC Guidelines (1999) and placed in an insulated container with ice. During the investigation, groundwater samples were preserved by immediate storage in an insulated sample container with ice in accordance with AS/NZS 5667.1-1998 as summarised in the following table:

Analyte	Preservation	Storage Period
Heavy metals	45µm Filter, acidify with nitric	Store at <4°, analysis within 30
i	acid to pH 1-2.	days
VOCs (TPH)	Zero hoadspace, teflon seal	Store at <4°, analysis within 7 days
VOCs (BTEX + Light TPH)	Zero headspace, Teflon seal,	Store at < 4°, analysis within 7 days
	acidify with HCl to pH 1-2.	

An intra-laboratory field duplicate sample was obtained during water sampling by alternate filling of sample containers during low-flow pumping activities. This technique was adopted to minimise disturbance of the samples and loss of volatile contaminants associated with mixing of liquids in secondary containers, etc.

On completion of the fieldwork, the samples were delivered in the insulated sample container to a NATA registered laboratory for analysis under standard chain of custody procedures.

7.3 Laboratory Analysis

7.3.1 Soil Samples

Analysis of soil samples was undertaken by NATA registered laboratories using analytical methods detailed in the Schedule B(3) NEPC (1999) Guideline on Laboratory Analysis of Potentially Contaminated Soils. Laboratory analysis was undertaken by Envirolab Services Pty Ltd (NATA Accreditation No. 2901).



For this investigation selected soil samples were analysed for contaminants using the following laboratory techniques:

- Heavy metals Nitric acid digestion. Analysis by ICP.
- Low level mercury cold vapour AAS.
- OC and OP pesticides and PCBs Extracted with acetone/hexane. Analysis by GC/ECD.
- PAHs Soil extracted with dichloromethane/acetone. Analysis by GC/MS.
- TPH (volatile) Soil extracted with methanol. Analysis by P&T GC/PID.
- TPH Soil extracted with dichloromethane/acetone. Analysis by GC/FID.
- BTEX Soil extracted with methanol. Analysis by P&T PID. Confirmed with column flame ionisation detection.
- Asbestos Polarizing light microscopy.

Toxicity characteristic leaching procedure (TCLP) leachates were prepared by rotating soil samples in a mild acid solution for 18 hours (NSW EPA WD-3 Method). Leachates were analysed using the analytical procedures outlined above.

7.3.2 Groundwater samples

Analysis of water samples for this assessment was undertaken by NATA registered laboratories using analytical techniques endorsed by the NSW EPA (Schedule B(3) of NEPC 1999 does not apply to water samples). Laboratory analysis was undertaken by Envirolab Services Pty Ltd (NATA Accreditation No. 2901).

For this investigation selected groundwater samples were analysed for contaminants using the following laboratory techniques:

- Heavy metals Direct injection. Analysis by ICP-AES.
- Low level mercury Direct injection. Analysis by flow injection AAS.
- TPH (volatile) P&T. Analysis by GC/FID.
- TPH Solvent (dichloromethane) extraction. Analysis GC/FID.
- BTEX Direct P&T. Analysis by GC/PID. Confirmed with column flame ionisation detection.

8 RESULTS OF INVESTIGATION

8.1 Subsurface Conditions

Eighteen boreholes were drilled for this investigation. This included 6 boreholes in the proposed on-grade carpark area and 12 boreholes in the proposed multi-storey carpark and concourse building area. Site details and borehole locations are shown on Figure



2. For details of the subsurface soil profile reference should be made to the borehole logs in Appendix A. A summary of the subsurface conditions encountered by the boreholes is presented below:

8.1.1 On-grade Carpark

BH16 to BH21, inclusive were drilled in the area of the proposed on-grade carpark.

Pavement

Asphaltic concrete pavement was encountered at the surface in BH18, BH20 and BH21 and extended to depths of approximately 20mm to 50mm.

Fill

Fill material and/or topsoil was encountered at the surface or beneath the pavement in all six boreholes and extended to depths of approximately 0.1m to 1.2m. Fill was shallower than 0.5m in all boreholes except BH21, where it extended to 1.2m. The fill material was typically silty clay with inclusions of sandstone, shale, ironstone and igneous gravel. The fill in BH19 contained a trace of ash.

Natural Soils

Silty clay was encountered beneath the fill material in all boreholes and extended to the termination of all boreholes, except BH17, at a maximum depth of approximately 1.95m. The silty clay was typically orange brown or grey with some red mottling and contained inclusions of ironstone gravel. Light grey silty sandy clay was encountered beneath the silty clay in BH17 and extended to a depth of approximately 2.3m. The silty sandy clay was mottled orange and contained inclusions of ironstone gravel and root fibres.

Bedrock

Light grey sandstone bedrock was encountered beneath the natural soil in BH17 and extended to the termination at a depth of approximately 6m.

Groundwater

A monitoring well was installed to a depth of approximately 6m in BH17. The well was dry on completion of drilling, however the standing water level was measured at a depth of approximately 2.94m after approximately 6 days. The standing water level was measured at 3.29m approximately 7 days after installation and 1 day after purging.



8.1.2 Multi-storey Carpark and Concourse Building

BH1 to BH15, inclusive, were drilled in the proposed multi-storey carpark and concourse building area.

Pavement |

Asphaltic concrete pavement was encountered at the surface in BH4 to BH10, inclusive, and BH14. The asphaltic concrete pavement extended to depths of approximately 30mm to 200mm. Roadbase was encountered beneath the asphaltic concrete in BH6, BH7, BH9 and BH10 and extended to depths of approximately 0.2m to 0.25m. Concrete pavement was encountered at the surface in BH11 to BH13, inclusive, and extended to depths of approximately 0.1m to 0.13m.

Fill

Wood chips/mulch was encountered at the surface in BH3 and extended to a depth of approximately 0.1m. Fill material was encountered beneath the pavement, wood chips or at the surface in all fifteen boreholes and extended to depths of approximately 0.15m to 4.3m. BH2 and BH15 were terminated in the fill material at depths of approximately 1.5m and 2m, respectively. The fill material included silty clay, clayey sand, clayey silt, sandy gravel, sandy clay, silty sand, sand and sandstone boulders. The fill material contained inclusions of igneous, sandstone, shale and ironstone gravel. Ash was encountered in the fill material in BH6 and BH10.

Natural Soils

Clayey sand, sandy clay or silty clay was encountered beneath the fill material in BH1, BH3, BH6, BH7, BH8, BH10 and BH12 to BH14, inclusive and extended to depths of approximately 0.7m to 6.4m. Typically the natural material extended to depths of 0.7m to 2.9m, except in BH14 where the soil extended to 6.4m. The natural soil contained inclusions of ironstone gravel and, in some boreholes, organic material.

Bedrock

Sandstone bedrock was encountered beneath the fill material or natural soil in all boreholes, except BH2, BH14 and BH15. Shale bedrock was encountered beneath the natural soil in BH14. The sandstone bedrock extended to the termination of all the boreholes (except BH2, BH14 and BH16) at a maximum depth of approximately 6.98m. Interbedded shale and sandstone bedrock was



encountered in BH14 and extended to the termination of the borehole at a depth of approximately 12.78m.

Groundwater

All the boreholes were dry on completion of augering. A monitoring well was installed to a depth of approximately 6m in BH3. The well was dry on completion of drilling, however the standing water level was measured at a depth of approximately 4.47m after approximately 6 days. The standing water level was measured at 4.43m approximately 7 days after installation and 1 day after purging.

8.2 Laboratory Results - Soil

The laboratory analysis results for soil samples are summarised in Table 8 and Table C inclusive and analysis reports are presented in Appendix B. The site soil assessment criteria for this investigation are specified in the "Site Assessment Criteria for Soil Contaminants" section earlier in this report. The results of the analyses are summarised below.

Heavy Metals

Eighteen selected fill and three selected natural soil samples were analysed for heavy metals. The nickel concentrations in fill samples BH8 (0.05-0.3m) and BH14 (0.4-0.5m) were slightly above the PPIL of 60mg/kg. The arsenic concentration in the BH2 (0.2-0.4m) sample was slightly above the PPIL of 20mg/kg. All the results of the analyses were below the health based site assessment criteria.

The results of all analyses were less than the SCC1 criteria outlined in the Waste Classification Guidelines Part 1: Classifying Waste DECC NSW 2008.

TCLP leachates were prepared from fourteen samples and analysed for chromium, lead and nickel and from three samples and analysed for arsenic. The results were all below the TCLP1 criteria outlined in the Waste Classification Guidelines Part 1: Classifying Waste DECC NSW 2008.

Petroleum Hydrocarbons (TPH) and Monocyclic Aromatic Hydrocarbons (BTEX)

PID soil sample headspace readings were all zero ppm equivalent isobutylene. These results indicate a lack of PID detectable volatile organic contaminants. Eighteen selected fill and three selected natural soil samples were analysed for



petroleum hydrocarbons and BTEX compounds. The results of the analyses were below the site assessment criteria.

The results of all analyses were less than the relevant CT1 and SCC1 criteria outlined in the Waste Classification Guidelines Part 1: Classifying Waste DECC NSW 2008.

Polycyclic Aromatic Hydrocarbons (PAHs)

Eighteen selected fill and three selected natural soil samples were analysed for a range of PAHs including Benzo(a)pyrene. The results of the analyses were less than the site assessment criteria.

The results of all analyses were all less than the relevant SCC1 criteria outlined in the Waste Classification Guidelines Part 1: Classifying Waste DECC NSW 2008.

TCLP leachates were prepared and analysed from four samples for PAHs. The results were all below the TCLP1 criteria outlined in the Waste Classification Guidelines Part 1: Classifying Waste DECC NSW 2008.

Organochlorine (OC) and Organophosphorus (OP) Pesticides and Polychlorinated Biphenyls (PCBs)

Eighteen selected fill and three selected natural soil samples were analysed for a range of OC and OP pesticides and PCBs. The results of the analyses were less than the site assessment criteria.

The results of all analyses were less than the SCC1 criteria outlined in the Waste Classification Guidelines Part 1: Classifying Waste DECC NSW 2008.

Asbestos

Eighteen selected fill and three selected natural soil samples were screened for the presence of asbestos fibres. The results of the analyses indicated that asbestos fibres were not encountered within the samples and no respirable fibres were detected.

Toxicity Characteristics Leaching Procedure (TCLP)

TCLP leachates (acid) were prepared for seventeen selected fill samples based on the initial laboratory heavy metal and Benzo(a)pyrene results. Fourteen sample extracts were analysed for chromium, lead and nickel and three samples were analysed for arsenic. Four extracts were analysed for PAHs. The results of the analyses were less than the TCLP criteria for 'inert waste' outlined in the



Environmental Guidelines: Assessment, Classification and Management of Liquid and Non-liquid Waste, NSW EPA (now DECC) 1999.

8.3 <u>Laboratory Results - Groundwater</u>

The laboratory analysis results for groundwater samples are summarised in Table D and the analysis reports are presented in Appendix B. The site groundwater assessment criteria are presented in Section 5.4.1. The results of the analysis are summarised below:

Heavy Metals

Two groundwater samples were analysed for heavy metals. Slightly elevated concentrations of lead and nickel (both at 0.05mg/L) were encountered in the MW17 sample. Elevated concentrations of zinc were encountered in both samples. The remaining results of the analyses were below the site assessment criteria.

Petroleum Hydrocarbons (TPH) and Monocyclic Aromatic Hydrocarbons (BTEX)

Two groundwater samples were analysed for petroleum hydrocarbons and BTEX compounds. The results of the analyses were below the site assessment criteria.

Miscellaneous Parameters

Two groundwater samples were analysed for pH, Electrical Conductivity (EC) and hardness.

- The pH ranged from 6.2 to 6.5 and was considered to be slightly acidic;
- EC ranged from 0.34mS/cm to 0.61mS/cm and were generally non-saline; and
- Hardness ranged from 77mgCaCO₃/L to 89mgCaCO₃/L.

Field Measurements

- pH results ranged from 5.97 to 5.98 and were considered to be slightly acidic acidic.
- EC results ranged from 0.131mS/cm to 0.888mS/cm and were considered to be non-saline.
- The redox potential (Eh) results ranged from -11.7mV (indicating slightly reducing conditions) to 331mV (indicating predominately oxidising conditions).



8.4 Assessment of Analytical QA/QC

The objective of the assessment of the laboratory QA/QC is to ensure that the sample data is reliable. All laboratory reports for project E22758K have been checked and issued as final by Envirolab Services Pty Ltd, NATA Accreditation No. 2901, Report numbers: 27443, 27443-A, 27715 and 27715-A.

Chain of custody documentation and/or sample receipt advice notices were signed and dated by Envirolab Services laboratories stating that all samples were received cool, in good order and in suitable containers. Compliance of holding times was met for all analyses undertaken by the above laboratory. EIS and laboratory QA/QC procedures for the site screening are summarised in the following table:

				QA/C	C Proced	ure		
Contaminant	Total no. of Samples	Intra-leb Duplicate	Repeat Analysis	Matrix Spike	LCS	Lab Blank	Surregate Spike	Field Blank
Heavy metals	21	2	2	1	2	<u>į</u> 1	- "	-
TPH	21		2	1	1	1	21	
BTEX	21	-	2	1	1	1	21	1
РАН	21	2	2	1	1	1	21	-
OCP/OPP	21	-	2	1	1	1	21	
PCB	21	•	2	1	1	1	21	
TCLP PAH	4	_	-	1	1	1	4	_
TCLP Metals	17	,,	1		2	1		-
						7-11		

Field QA/QC samples for soil/fill assessment are specified below:

Intra-laboratory duplicates - Dup 1 is a duplicate of BH10 (0.2-0.5m); and

- Dup 2 is a duplicate of BH7 (0.4-0.7m).

Field blank - F81 (12 March 2009)

Field rinsate - rinsate 1 (12 March 2009); and

- rinsate 2 (13 March 2009).

Field QA/QC samples for groundwater assessment are specified below:

Intra-laboratory duplicate - Dup A is a duplicate of MW17.

The RPD results for the field QA/QC soil duplicate samples are summarised in Tables E-1 and E-2 and groundwater duplicate samples are summarised in Table F. The following comments are an overall summary of the quality of the analytical component of the project:

Sample integrity and container requirements were documented as satisfactory.



- All sample extraction analyses were performed within the required holding times.
- Matrix spike, laboratory control sample (LCS) and surrogate recovery values indicated that the laboratory accuracy was very good, and that no outliers were reported.
- 4. Laboratory duplicate RPD results indicated that the sample precision was acceptable.
- All method, rinsate and field blanks were found to be free of analyte concentrations above the PQLs.
- 6. The intra -laboratory RPD values indicated that field precision was acceptable. The RPD for mercury from Dup 2 was 120%, which is above the acceptable limit of 100%. This result was considered to be due to low concentrations close to or below laboratory PQL. Neither of the results were above the site assessment criteria, therefore, this result is not considered to have had an adverse impact on the data set as a whole.

The QA/QC data reported by Envirolab Services laboratories for the documented soil and water samples were assessed to be of sufficient quality to be considered acceptable for the environmental assessment of EIS project E22758K.

The QA/QC data including the RPD results are considered to meet the Data Quality Objectives developed for this project.

9 COMMENTS AND RECOMMENDATIONS

The environmental site assessment undertaken for the Stage 1 of the proposed hospital redevelopment at the Sydney Adventist Hospital, 185 Fox Valley Road, Wahroonga was designed to assess the risk of widespread contamination of the investigation areas and the suitability for the proposed land use and provide a classification of soils that may require off-site disposal during the development works.

This investigation was targeted at the areas of concern associated with Stage 1 of the proposed hospital re-development. The proposed Stage 1 development works include:

- re-development of the existing on-grade carpark in the north section of the site to include a multi-storey parking structure and entry concourse;
- construction of a new concourse building between the existing San Clinic and CSB buildings; and
- construction of a paved on-grade carpark in the north-east section of the site.



The site assessment included performance of a site inspection, review of historical site use, including examination of regional aerial photographs and review of geology and groundwater conditions. Historical information and inspection of the site and surrounding areas did not indicate any obvious on-site or nearby off-site activity that could be expected to generate significant soil or groundwater contamination apart from:

- Potentially contaminated, imported fill material;
- · Historical use of pesticides in areas of former agricultural use; and
- Migration of contaminants associated with storage of fuel in the central section of the site (outside the investigation areas).

The site soil/fill sampling was subsequently undertaken on the basis of a relatively uniform exploration spacing.

9.1 Soil Contamination

The results of the laboratory tests on selected soils samples covered a range of contaminants commonly encountered in the Sydney region. All the soil results were less than the appropriate Health Investigation Levels.

The BH8 (0.05-0.3m) and BH14 (0.4-0.5m) fill samples encountered elevated concentrations of nickel above the Provisional Phyto-toxicity Investigation Level (PPIL) specified in the National Environmental Protection (Assessment of Site Contamination) Measure 1999 (NEPC Guidelines). The BH2 (0.2-0.4m) fill sample encountered an elevated concentration of arsenic above the PPIL. The PPILs are principally concerned with phytotoxicity (i.e. adverse effects on plant growth in established and proposed areas of landscaping) and are described in the NEPC Guidelines as "somewhat arbitrary", as the effect of these compounds on plant growth will depend on the soil and plant type. These elevations should be taken into consideration for this site as EIS understand that the proposed development may include landscaped areas and therefore elevated levels of nickel and arsenic in these areas may influence plant growth. In the event that landscaped areas are located in the vicinity of the boreholes, advice should be sought from a horticultural specialist on measures that can be adopted to mitigate any adverse effects.

The investigation undertaken by EIS included the analysis of eighteen fill and three natural soil samples for the presence of asbestos fibres using NATA accredited microscopic screening techniques. Asbestos, neither apparent to the naked eye nor apparent using microscopic techniques were not detected within the samples. The scope of work undertaken was designed to assess widespread surficial contamination



and has not included an exhaustive assessment of the site for the presence of small scale asbestos contamination. EIS adopts no responsibility for small scale or buried asbestos features at the site which may be encountered during future earth or construction works at the site.

The WorkCover publication *Working with Asbestos Guide* (NSW WorkCover 2008) states that, where buried asbestos in encountered, "A competent occupational hygienist should assess the site to determine:

- · If asbestos material is bonded or friable
- The extent of asbestos contamination.
- Safe work procedures for the remediation of the site"

9.2 Waste Classification

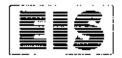
The fill soils are classified as 'General Solid Waste (non-putrescible)' according to the criteria outlined in *NSW DECC (EPA) Waste Classification Guidelines, Part 1: Classifying Waste, 2008.* Any excess excavated soils should be disposed of to a suitable NSW DECC (EPA) licensed landfill.

The natural silty clay soil and sandstone (and shale) bedrock can be considered to be virgin excavated natural material (VENM). The material is considered suitable for reuse on-site, or alternatively, the material can be disposed to a NSW DECC licensed landfill. The VENM may be suitable for reuse on another site, however the material should be assessed for geotechnical suitability. Where doubt exists about the difference between fill and VENM material an environmental/geotechnical engineer should be contacted.

The fill material also meets the requirement for 'inert waste' under the (former waste guidelines) *Environmental Guidelines: Assessment, Classification and Management of Liquid and Non-liquid Waste, NSW EPA (now DECC) 1999*. Although this classification and these guidelines have been superseded, EIS note that some NSW DECC (EPA) licensed landfills are still able to accept 'inert waste'. There may be a cost benefit associated with disposal of fill soil at such a landfill.

9.3 Groundwater Assessment

Monitoring wells were installed to a depth of approximately 6m in BH3 and BH17 (MW3 and MW17, respectively). MW3 and MW17 were dry on completion of drilling, however the standing water levels were measured at depths of approximately 4.47m and 2.94m, respectively, after approximately 6 days (prior to purging). The standing



water level was measured at 4.43m and 3.29m, respectively, approximately 7 days after installation and 1 day after purging.

A sample was obtained from each of the two monitoring wells. Both the samples contained minor elevations of zinc above the site assessment criteria. The MW17 sample also contained minor elevations of lead and nickel. The samples were also analysed for TPH/BTEX; these results were all below the laboratory practical quantitation limits and the site assessment criteria.

The slightly elevated concentrations of heavy metals (lead, nickel and zinc) in the samples are considered to be the results of regional factors rather than site specific contamination based on the following:

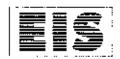
- TCLP heavy metals analysis (acid) indicated that potentially very low metal concentrations could be leached from the fill material;
- Elevated concentrations of heavy metals are often encountered in bedrock groundwater aquifers; and
- Elevated levels of some metals (nickel and zinc in particular) are often associated with leaking water infrastructure.

The high redox potential measured in sample MW17 suggests the groundwater in this section of the site is recharged regularly with relatively fresh water. The low redox potential measured in MW3 (-11.7mV) on 27 March 2009 suggests that either groundwater in this section of the site is not regularly recharged or that elevated concentrations of organic material may be present in this sample (e.g. dilute sewage).

Based on the above rationale, some further groundwater analysis for nutrients (e.g. ammonia, organic carbon) should be included in the subsequent rounds of groundwater monitoring.

9.4 General Recommendations and Conclusions

The boreholes drilled for the investigation have enabled an assessment to be made of the existence of significant, large quantities of contaminated soils. The conclusions based on this investigation are that, while major contamination of the site is not apparent, problems may be encountered with smaller scale features between boreholes. EIS adopts no responsibility whatsoever for any problems such as underground storage tanks, buried items or contaminated material that may be encountered between sampling locations at the site. The proposed construction activities at the site should be planned on this basis, and any unexpected problem areas that are encountered between boreholes should be immediately inspected by



experienced environmental personnel. This should ensure that such problems are dealt with in an appropriate manner, with minimal disruption to the project timetable and budget.

During demolition and excavation works, the site should be inspected by experienced environmental personnel to assess any unexpected conditions or subsurface facilities that may be discovered between investigation locations. This should facilitate appropriate adjustment of the works programme and schedule in relation to the changed site conditions.

Based on the scope of work undertaken, the site is considered to be suitable for the proposed development provided that regular inspections are undertaken during the development works to assess any unexpected conditions and that further assessment of groundwater in the vicinity of MW3 is undertaken during any subsequent investigations.

Normal good engineering site management practice including control of run-off and dust suppression is recommended during earthworks and construction.

10 LIMITATIONS

The conclusions developed in this report are based on site conditions which existed at the time of the site assessment and the scope of work outlined previously in this report. They are based on investigation of conditions at specific locations, chosen to be as representative as possible under the given circumstances, and visual observations of the site and vicinity, together with the interpretation of available historical information and documents reviewed as described in this report.

This investigations for this assessment and preparation of this report have been undertaken in accordance with accepted practice for environmental consultants, with reference to applicable environmental regulatory authority and industry standards, guidelines and the assessment criteria outlined previously in this report.

Where information has been provided by third parties, EIS has not undertaken any verification process, except where specifically stated.

EIS has not undertaken any assessment of off-site areas that may be potential contamination sources or may have been impacted by site contamination.



Subsurface soil and rock conditions encountered between investigation locations may be found to be different from those expected. Groundwater conditions may also vary, especially after climatic changes.

Previous use of this site may have involved excavation for the foundations of buildings, services, and similar facilities. In addition, unrecorded excavation and burial of material may have occurred on the site. Backfilling of excavations could have been undertaken with potentially contaminated material that may be discovered in discrete, isolated locations across the site during construction work.

EIS accept no responsibility for potentially asbestos containing materials that may exist at the site. These materials may be associated with demolition of pre-1970 constructed buildings or fill material at the site.

EIS have not and will not make any determination regarding finances associated with the site.

Changes in the proposed or current site use may result in remediation or further investigation being required at the site.

During construction at the site, soil, fill and any unsuspected materials that are encountered should be monitored by qualified environmental and geotechnical engineers to confirm assumptions made on the basis of the limited investigation data, and possible changes in site level and other conditions since the investigation. Soil materials considered to be suitable from a geotechnical point of view may be unsatisfactory from a soil contamination viewpoint, and vice versa.

This report has been prepared for the particular project described and no responsibility is accepted for the use of any part of this report in any other context or for any other purpose. Copyright in this report is the property of ElS. ElS has used a degree of care, skill and diligence normally exercised by consulting engineers in similar circumstances and locality. No other warranty expressed or implied is made or intended. Subject to payment of all fees due for the investigation, the client alone shall have a licence to use this report.



Should you require any further information regarding the above, please do not hesitate to contact us.

Yours faithfully
For and on behalf of
ENVIRONMENTAL INVESTIGATION SERVICES

Todd Hore

Senior Environmental Engineer

Adrian Kingswell

Senior Associate



IMPORTANT INFORMATION ABOUT YOUR ENVIRONMENTAL SITE ASSESSMENT

These notes have been prepared by Environmental Investigation Services (EIS) to assist with the assessment and interpretation of this assessment report.

An Environmental Assessment Report is Based on a Unique Set of Project Specific Factors

This assessment report has been prepared in response to specific project requirements as stated in the EIS proposed document which may have been limited by instructions from the client. This report should be reviewed, and if necessary, revised if any of the following occur:

- the proposed land use is altered;
- the defined subject site is increased or subdivided;
- the proposed development details including size, configuration, location, orientation of the structures are modified;
- the proposed development levels are altered, eg addition of basement levels; or
- ownership of the site changes.

EIS/J&K will not accept any responsibility whatsoever for situations where one or more of the above factors have changed since completion of the assessment. If the subject site is sold, ownership of the assessment report should be transferred by EIS to the new site owners who will be informed of the conditions and limitations under which the assessment was undertaken. No person should apply an assessment for any purpose other than that originally intended without first conferring with the consultant.

Changes in Subsurface Conditions

Subsurface conditions are influenced by natural geological and hydrogeological process and human activities. Groundwater conditions are likely to vary over time with changes in climatic conditions and human activities within the catchment (eg. water extraction for irrigation or industrial uses, subsurface waste water disposal, construction related dewatering). Soil and groundwater contaminant concentrations may also vary over time through contaminant migration, natural attenuation of organic contaminants, ongoing contaminating activities and placement or removal of fill material. The conclusions of an assessment report may have been affected by the above factors if a significant period of time has elapsed prior to commencement of the proposed development.

This Assessment is Based on Professional Interpretations of Factual Data

Site assessments identify actual subsurface conditions at the actual sampling locations at the time of the investigation. Data obtained from the sampling and subsequent laboratory analyses, available site history information and published regional information is interpreted by geologists, engineers or environmental scientists and opinions are drawn about the overall subsurface conditions, the nature and extent of contamination, the likely impact on the proposed development and appropriate remediation measures. Actual conditions may differ from those inferred, because no professional, no matter how qualified, and no subsurface exploration program, no matter how comprehensive, can reveal what is hidden by earth, rock and time. The actual interface between materials may be far more gradual or abrupt than an assessment indicates. Actual conditions in areas not sampled may differ from predictions. Nothing can be done to prevent the unanticipated, but steps can be taken to help minimise the



impact. For this reason, site owners should retain the services of their consultants throughout the development stage of the project, to identify variances, conduct additional tests which may be needed, and to recommend solutions to problems encountered on site.

Environmental Site Assessment Limitations

Although information provided by an environmental site assessment can reduce exposure to the risk of the presence of contamination, no environmental site assessment can eliminate the risk. Even a rigorous professional assessment may not detect all contamination on a site. Contaminants may be present in areas that were not surveyed or sampled, or may migrate to areas which showed no signs of contamination when sampled. Contaminant analysis cannot possibly cover every type of contaminant which may occur; only the most likely contaminants are screened.

Misinterpretation of Environmental Site Assessments by Design Professionals

Costly problems can occur when other design professionals develop plans based on misinterpretation of an environmental assessment report. To minimise problems associated with misinterpretations, the environmental consultant should be retained to work with appropriate professionals to explain relevant findings and to review the adequacy of plans and specifications relevant to contamination issues.

Logs should not be Separated from the Environmental Assessment Report

Borehole and test pit logs are prepared by environmental scientists, engineers or geologists based upon interpretation of field conditions and laboratory evaluation of field samples. Logs are normally provided in our reports and these should not be re-drawn for inclusion in site remediation or other design drawings, as subtle but significant drafting errors or omissions may occur in the transfer process. Photographic reproduction can eliminate this problems, however contractors can still misinterpret the logs during bid preparation if separated from the text of the assessment. If this occurs, delays, disputes and unanticipated costs may result. In all cases it is necessary to refer to the test of the report to obtain a proper understanding of the assessment.

To reduce the likelihood of borehole and test pit log misinterpretation, the complete assessment should be available to persons or organisations involved in the project, such as contractors, for their use. Denial of such access and disclaiming responsibility for the accuracy of subsurface information does not insulate an owner from the attendant liability. It is critical that the site owner provides all available site information to persons and organisations such as contractors.

Read Responsibility Clauses Closely

Because an environmental site assessment is based extensively on judgement and opinion, it is necessarily less exact than other disciplines. This situation has resulted in wholly unwarranted claims being lodged against consultants. To help prevent this problem, model clauses have been developed for use in written transmittals. These are definitive clauses designed to indicate consultant responsibility. Their use helps all parties involved recognise individual responsibilities and formulate appropriate action. Some of these definitive clauses are likely to appear in the environmental site assessment, and you are encouraged to read them closely. Your consultant will be pleased to give full and frank answers to any questions.



ABBREVIATIONS

AAS Atomic Absorption Spectrometry
ADWG Australian Drinking Water Guidelines

AGST Above Ground Storage Tank
AHD Australian Height Datum

ANZECC Australian and New Zealand Environment Conservation Council

ASS Acid Sulfate Soil B(a)P Benzo(a)pyrene

BH Borehole

BTEX Benzene, Toluene, Ethyl benzene, Xylene

COC Chain of Custody documentation CLM Contaminated Land Management

DECC Department of Environment and Climate Change (formerly DEC and EPA)

DNR NSW Department of Natural Resources (now split between DWE and DECC)

DWE NSW Department of Water and Energy

DP Deposited Plan

DQO Data Quality Objective EC Electrical Conductivity

EPA NSW Environment Protection Authority, New South Wales (now part of DECC)

GC-ECD Gas Chromatograph-Electron Capture Detector
GC-FID Gas Chromatograph-Flame Ionisation Detector
GC-MS Gas Chromatograph-Mass Spectrometer

HIL Health Based Investigation Level

HM Heavy Metals

ICP-AES Inductively Couple Plasma – Atomic Emission Spectra NATA National Association of Testing Authorities, Australia

NEPC. National Environmental Protection Council
NHMRC National Health and Medical Research Council

OCPs Organochloring Pesticides
OHS (OH&S) Occupational Health and Safety
PAH Polycyclic Aromatic Hydrocarbons

PCBs Polychlorinated Biphenyls PID Photo-ionisation Detector

PPIL Provisional Phyto-toxicity Investigation Levels

PQL Practical Quantitation Limit

P&T Purge & Trap

RAP Remedial Action Plan

QA/QC Quality Assurance and Quality Control

RPD Relative Percentage Difference SEPP State Environmental Planning Policy

sPOCAS suspension Peroxide Oxidation Combined Acidity and Sulfate

SPT Standard Penetration Test
SWL Standing Water Level

TCLP Toxicity Characteristic Leaching Procedure

TP Test Pit

TPH Total Petroleum Hydrocarbons

USEPA United States Environmental Protection Agency

UCL Upper Confidence Limit
UST Underground Storage Tank
VOC Volatile Organic Compounds

WP Work Plan



REFERENCE DOCUMENTS

- ANZECC/ARMCANZ (2000) Australian and New Zealand Guidelines for Fresh and Marine Water Quality (and updates).
- NSW DEC (2007) (now DECC) Guidelines for the Assessment and Management of Groundwater Contamination.
- Australian Government, National Occupational Health and Safety Commission (2005) Code of Practice for the Safe Removal of Asbestos.
- Australian Government, National Occupational Health and Safety Commission (2005) Code of Practice for the Management and Control of Asbestos in Workplaces.
- Australian Standard (2004) Storage and Handling of Flammable and Combustible Liquids. AS1940-2004.
- DUAP/NSW EPA (1998) (now NSW Department of Planning / NSW Department of Environment and Climate Change (DECC) incorporating the EPA) Managing Land Contamination: Planning Guidelines SEPP 55 - Remediation of Land.
- Dutch Ministry of Housing, Spatial Planning and the Environment (2000) Circular on target values for soil remediation.
- NEPM. (1999) National Environmental Protection (Assessment of Site Contamination).
 Measure (NEPC, Guidelines).
- NSW EPA (1994) (now NSW DECC) Contaminated Sites: Guidelines for Assessing Service Station Sites.
- NSW EPA (1995) (now NSW DECC) Contaminated Sites: Sampling Design Guidelines.
- NSW EPA (1996) (now NSW DECC) Guidelines for Solid Waste Landfills.
- NSW EPA (1997) (now NSW DECC) Contaminated Sites: Guidelines for Consultants Reporting on Contaminated Sites.
- NSW DEC (2006) (now DECC) Contaminated Sites: Guidelines for the NSW Site Auditor Scheme (2nd Edition).
- NSW EPA (1999) (now NSW DECC) Contaminated Sites: Guidelines on Significant Risk of Harm and the Duty to Report.
- NSW DECC (2008) Waste Classification Guidelines Part 1: Classifying Waste and Part 2: Immobilisation of Waste.
- NSW Legislation (1948) Rivers and Foreshores Improvement Act.
- NSW Legislation (1975) Dangerous Goods Act.
- NSW Legislation (1994) Environmental Pfanning and Assessment Act (EP&AA) and associated Regulations.
- NSW Legislation (1997) Contaminated Land Management Act.
- NSW Legislation (1997) Protection of the Environment Operations Act No156 which includes Schedule 2 of the Clean Waters Regulations 1972 made under the Clean Waters Act (1970).
- NSW Legislation (2000) Occupational Health and Safety Act.
- · NSW Regulation (2001) Occupation Health and Safety Regulation.
- NSW WorkCover (2008) Working With Asbestos Guide.
- NSW WorkCover Code of Practice (2005) Storage and Handling of Dangerous Goods.
- US EPA (2004) Region 9 Preliminary Remediation Goals.
- NSW Government, Protection of the Environment Operations (Underground Petroleum Storage Systems) Regulation (2008).
- Australian Standard A4976 2008: The removal and disposal of underground petroleum storage tanks.

TABLE A-1 ENVIRONMENTAL AND HEALTH-BASED SOIL INVESTIGATION LEVELS (mg/kg)

	Hea	ilth investigat	ion Levels (HI	Ls) ¹			· · · · · · · · · · · · · · · · · · ·
	Α	D	E .	, F	1		
Substances	"Standard residential with gordon" accessible spil (hone-grown produce contributing ross than 10% of vagetable and fruit intake; no peutity); includes caldron's day-care centres, kinderganers, proscitools and primary schools	Residential with minimal opportunities for soil access includes divellings with fully and permanently paved yard spaces such as high-rise aponeonic and flats	Parks, recreational open space and playing fields: includes secondary schools	Commercia@industriai. Indudes pramited such as shops and offices as well as factones and industrial sites	Provisional Phyto-toxicity Investigation Levels (PPILs) ¹		Back- ground Ranges ¹
METALS/METALLOIDS	· · · · · · · · · · · · · · · · · · ·			<u> </u>			
Arsenic (total)	100	400	200	500	20		1-50
Barium				[300		100-3000
8eryllium	20	80	40	100	>		100-0000
Cadmium	20	80	40	100	3		1
Chromium(III)	12%	48%	24%	60%	400		·····
Chromium(VI)	100	400	200	500	1	···	
Chromium (total)	-				· · · · · · · · · · · · · · · · · · ·		5-1000
Cobalt	100	400	200	500			1-40
Соррег	1000	4000	2000	5000	100	-	2-100
Lead	300	1200	600	1500	600		2-200
Manganese	1500	6000	3000	7500	500		850
Methyl mercury	10	40	20	50			
Mercury (inorganic)	15	60	30	75	1	· -	0.03
Nickel	600	2400	600	3000	60		5-500
Vanadium	1 .	***************************************		***************************************	50		20-500
Zinc	7000	28000	14000	35000	200	•	10-300
ORGANICS							
Aldrin + Dieldrin	10	40	20	50			
Chlordane	50	200	100	250			
DDT + DDD + DDE	200	800	400	1000			
Heptachlor	10	40	20	50			
Polycyclic aromatic	20	80	40	100			
hydrocarbons (PAHs)							
Benzo(a)pyrene	1	4	2	5			
Phenol	8500	34000	17000	42500			
PC8s (total)	10	40	20	50			••
Petroleum Hydrocarbon Components (constituents):							
>C16 - C35 Aromatics	90	360	180	450			
>C16 - C35 Aliphatics	5600	22400	11200	28000			
>C35 Aliphatics	56000	224000	1 1 2000	280000			
C6-C9						65	
C10-C40						1000	
Benzene	 					1	
Toluene	ļ					1.4	
Ethyl Benzene						3.1	
Total Xylenes						14	
OTHER							
Boron	3000	12000	6000	15000			
Cyanides (complexed)	500	2000	1000	2500			
Cyanides (free)	250	1000	500	1250	***************************************		
Phosphorus					2000		
Sulfur					600		
Sulfate					2000		

Reference should be made to the following guidelines for further details (as referenced in the above table):

1. National Environment Protection (Assessment of Site Contamination) Measure - 1999, National Environment Protection Council. Human exposure settings based on land use have been established for HILs and details are outlined in Taylor and Langley 1998.

2. NSW DECC (formally EPA) Guidelines for Assessing Service station Sites - 1994.



TABLE A - 2 CHEMICAL CONTAMINANT CRITERIA FOR WASTE CLASSIFICATION Wasto Classification Guidelines. Part 1: Classifying Waste DECC NSW April 2008

	Tracket .	
GENERAL SOLID WASTE	RESTRICTED SOLID WASTE	HAZARDOUS WASTE
IF SCC 5 CT1, TCLP NOT NEEDED TO CLASSIFY AS GENERAL SOUR WASTE	IF SCC ≤ C1'2, YCLP NOT NEEDED TO CLASSIRY AS RESTRICTED SOLID WASTE	IF SCC > SCC2 TREAT AS HAZARDOUS WASTE
IF TCLP ≤ YCLP1 AND SCC ≤ SCC1 INGAT AS GENERAL SOLID WAST(;	P TCLP ≤ TCLP2 AND SCG ≤ SCC2 TREAT AS RESTRICTED SOLID WASTE	IF > 1CLP2 TREAT AS HAZARDOUS WASTE

	GE	NERAL SOLID WA	STE	RESTRICTED SOLID WASTE					
CONTAMINANT	CT1 (mg/kg)	TCLP1 (mg/E)	5CC1 (লগু/kg)	CT2 (mg/kg)	FCLP2 (mg/L)	SCC2 (mg/kg)			
Arsenie	100	5	500	400	20	2,000			
Beryllium	20	1.0	100	80	4	400			
Cadmiom	20	1,0	100	80	4	400			
Chromium VI	100	5	1,900	400	20	7,800			
Cyanide (total)	320	16	5,900	1280	64	23,600			
Cyanide (Amenable)	70	3.5	300	280	14	1,200			
Fluoride	3.000	150	10,000	12,000	600	40,000			
Lead	100	5	1,500	400	20	6,000			
Mercury	4	0.2	50	16	0.8	200			
Molybdenum	100	5	1,000	400	20	4,000			
Nickel .	40	2	1,050	160	8	4,200			
Setenium	20	1	50	80	4	200			
Silver	100	5.0	180	400	20	720			
Benzena	10	0.5	18	40	2	72			
Taluena	268	14.4	518	1,152	57.6	2.073			
Ethylbenzens	600	30	1,080	2,400	120	4,320			
Yotal xylanes	1,000	50	1,800	4,000	200	7,200			
Fotal petroleum hydrocarbons (C6-C9)		•	650	-	-	2,600			
Total petroleum hydrocarbons (C10-C36) (C10-C14, C15-C28, C29-C36)	,	-	10,000			40,000			
Benzo(a)pyrene	0.8	0.04	10	3.2	0.16	23			
Polycyclic aromatic hydrocarbons [Total)	-	<u>.</u>	200	-	-	800			
Polychlorinated blphenyls		-	< 50			<50			
Pisenol (nontralogenated)	288	14.4	518	1,152	57.6	2,073			
Scheduled chemicals	-	•	< 50		-	< 50			



TABLE A - 3 SUMMARY ORGANIC AND INORGANIC GROUNDWATER CONTAMINANT GUIDELINE LEVELS

Δι	VALYTE	Drinking Water ⁱ	ANZECC 2000	98% Values ²	Dotch Intervention
		li ii	Frash Water	Marino Water	Values*
Arsenic (As) (As fil)	0.007	0.024	0.00231	<u> </u>
Cadmium (Cd)		0.002	0.0002	0.0055	-
Chromium III		- ···	0.0033*	0.01	
Chromium (Cr)	Hexavalent)	0.05	0.001	0.0044	-
Copper (Cu)	~	2.0	0.0014	0.0013	
Iron (Fe) (Filtrab	le)	0.3*	0.31	<u> </u>	**
Lead [Pb]		0.01	0.0034	0.0044	<u> </u>
Mercury (Fig) - i	norganic	0.001	0.0006	0.0004	
Nickel (Ni)		0.02	0.011	0.07	
Zinc (Zn)	*/*	3'	0.008	0.015	
Cso-Csa Potroleu	m Hydrocarbons	- 1			0.6
****	Benzana	0.001	0.95	0.7	
	Toluena	0.8	0.18	0.18	
	Rthyl Benzene	0.3	0.08	0.0051	-
8TEX	o-Xylane		0.35t	0.35	- */
	p-Xylene		0.2	0.2	
	m-Xylene		0.075 ^t	0.075	-
	Total Xylenes	0.6]··
	Naphthalene		0.016	0.07	
Polycyclic	Anthracene	1·	0.0004	0.0004	
Aromatic	Phenanthrene	1 ~	0.002'	0.002	
Hydrocarbons	Fluoranthrene		0.0014	0.0014	
	Benzo(a)pyrene	î • 10 ^{.5}	0.0002	0.0002	
Total Phenol		-	0.32 ^r	0.4	
PCB - Aroclor 1	242		0.0006	_ ~	
PCB - Arodor 1	254	<u> </u>	3 * 10 ⁻⁵		-
	Aldrin	1*10.5	1*10' ⁶ 1	3'10'61	<u> </u>
	Dieldrin	1.10.5	1*10*1	1*10.51	
	Chlordane	1*10-5	8*10*51	1 *10 0 4	
Owner a selection	DUT	6*10-5	t * 10 ^{-5 L}	4*10-7*	
Organochlozine Pesticides	Endosulfan	5 10 \$	2*10*41	1*10.51	
Collicions	Endrin	-	2*10,51	B 10-71	
	Heptachler	5*10.5	9*10-51	4*10**	
	Lindane	5 ° 10'5	2*10*4*	7*10'61	<u> </u>
	Methoxychlor	2*10"	5*10 ⁻⁶¹	4*10'61	
	<u> </u>	6.5-8.5	6.5-8.5*	7-8.5 ^e	_
Sulphate (SO ₄)		500	<u></u>		
Fluoride (F)		1.5			
Chloride (CI)		250			
Nitrate (as N)			0.7	0.71	

Notes:

- NHMRC Australian Drinking Water Guidelines (2004).
- ANZECC Australian Water Quality Guidelines for Fresh and Marine Waters, 2000 Trigger values for protection of 95% of species.
- In the absence of locally endorsed guidelines, the Dutch intervention levels specified in 'Circular on target values and intervention values for sail remediation' Hitinistry of Housing, Spatial Planning and the Environment 2000) have been quoted.
- In the absence of a health guideline the aesthetic guideline concentration has been quoted.
- In the absence of a high reliability guideline concentration, the moderate or low reliability guideline concentration has been used.
- ANZECC Australian Water Quality Guidelines for Fresh and Marine Waters, 2000 Lovel for NSW Lowland Rivers.
- ANZECC Australian Water Quality Guidelines for Fresh and Marine Waters, 2000 Level for South-East Austrolian estuaries.

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strature according to the innestigator is cut and helps on and the Contain remost theories (VEPC Goldenes) and D. Piscopies, with minimal sociations. Careful (PRIS) Service Section President Services assessment or the aboratory PGL has been adopted as the size assessment or the all Classifing Master (2009).

Citera

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TABLE C SUMMARY OF LABORATORY TEST DATA TOXICITY CHARACTERISTICS LEACHING PROCEDURE (TCLP) All data in mg/L unless stated otherwise

	Arsenic	Chromium	Lead	Nickel	В(в)Р
olab	0.05	0.01	0.03	0.02	0.001
neral Solid Waste *	5	5	5	2	0.04
ner Inert Waste **	0.5	0.5	0.5	0.2	G.004
(Depth in metres)					
0.2-0.4	LPQL	NA	NA	NA	NA
0.1-0.2	NA.	LPQL	LPQL	I.PQL	NA
0.1-0.2	NΑ	LPQL 1	LPQL	LPQL	NA
0.9-1.0	NΑ	LPQL	LPQL	LPQL	AN
0.5-0.7	NA	LPQL	LPQL	LPQL	NA
0.4-0.7	NA	LPQL	LPQL	LPQL	LPQL
0.05-0.3	LPQL	LPQL	NA	0.02	NA
0.2-0.5	ï.pqi.	LPQL	0.04	LPQL	LPal
0.2-0.3	NA	LPQL	LPQL	LPQL	NA
0.4-0.5	NA	LPQL	LPQL	0.07	LPQL
2.5-2.8	NA	LPQL	0.06	LPQL	LPQL
0.3-0.5	NA	NA	NA	LPQL	NA
0.1-0.2	NA.	LPQL	LPQL	NA	NA
0.1-0.3	NA	LPQL	LPQL	LPQL	NA .
0.0-0.1	NA	LPQL	0.05	1.PQL	NA
0.02-0.2	N/A	LPQL .	LPQL	NA.	NA
0.2-0.4	NA	NA	LPQL	LPQL	NA.
samples		14	14	14	4
/alue	LPQL	LPQL	0.05	0.07	LPQL
	neral Solid Waste * ner Inert Waste ** (Depth in metres) 0.2-0.4 0.1-0.2 0.1-0.2 0.9-1.0 0.5-0.7 0.4-0.7 0.05-0.3 0.2-0.5 0.2-0.5 0.2-0.3 0.4-0.5 2.5-2.8 0.3-0.5 0.1-0.2 0.1-0.3 0.0-0.1 0.02-0.2 0.2-0.4 samples	Diab Diab	Diab	Diab	Diab

EXPLANATION:

- * NSW DECC (EPA) Waste Classification Guidefines Part 1: Classifying Waste April 2008
- ** NSW EPA (now DECC) Environmental Guidelines: Assessment, Classification and Management of Liquid and Non-liquid Waste 1999

Concentration above the General Solid Waste guideline level

VALUE

ABBREVIATIONS:

PQL: Practical Quantitation Limit

LPQL: Less than PQL B(a)P: Benzo(a)Pyrene NA: Not Analysed NC: Not Calculated



YABLE 0 GROUNDWATER MONITORING ANALYSIS All results in mg/l, unless stated otherwise.

				<u></u>		
		Guideline Concentration	Guideline Concentration	Guideline Concentration		
Contaminant	POL	ANZECC 2000	Hardness Adjusted	Drinking Water 3	MW3	MW17
	Envirolab	Fresh Waters	Assessment Criteria	l <u></u> !		l
Field Measurements *			- Contract		******	
Redox potential (mV)	<u> </u>			NSL	-11.7	134.4
[ام]	- "	6.5 - 8.5	-	6.5 - 8.5 ^	5.73	<u>5.</u> 9
Conductivity (m\$/cm)	-	NSI.	<u> </u>	NSL	(0,474)	€0.842\
Temperature *C	- "	" NSL	-	N\$L	22,6	21.2
Inorganic Compounds					·····	-
F-lo	0.1	6.5 - 8.5	-	6.5 - 8.5 ^	6.5	6.2
Electrical Conductivity (mS/çm)	0.001	NSL		NSL	G.34	0.61
Hardness (mgCaCO3/L)	1.0	NSL		NŞL	89	77
Heavy Metals				·		·
Arsenic (As III)	0.001	0 024	'	0.007	0.0033	0.0092
Cadmium	0.0001	0.0002	0.0005	0.002	LPGL	0.0002
Chromium	0.001	0 001 i	0.0023	0.05	LPOL	LPQL
Copper	6.001	0.0014	0.0033	2	LPGL	LEGL
Lead	6.001	0.0034	0.012	0.01	LPQL	0.05
Mercury	0.0005	0.0006	4	0.001	LPQL	LPQL
Nackel	0.001	9011	0.026	0.02	0.0065	0.05
Zinc	0.001	0.008	0.019	3 ^	0.021	0.11
Petroleum Hydrocarbons						
Hydrocarbons C6-C9	0.01	NSL	-	NSL	LPQL	LPQL
Hydrocarbons C10-C14	0.05	l l				
Hydrocarbons C15-C28	0.1	0.8**		NSL	LPOL	LPQL.
Hydrocarbons C29-C36	0.1					
Volatile Organic Contaminants [
Berzene	0.001	0.95	-	0.001	LPQL.	LPQL
Totuene	0.001	G.18 ¹		0.8	LPQL	LPQL
Ethyl Benzene	0.001	0.08 (0.3	L.PQL	LPQt
Total xylenes	6.003	0.38		0.6	LPOL	LPQL
c-xylene	8.001	0.35 ^t		NSL	LPQL	LPQL
m+p-xylene	0.002	0.2751	-	NSL	LPQL	LPQt.

EXPLANATION:

- I ANZECC Australian Water Quality Guidelines for Fresh Waters, 2000 Trigger Values for protection of 95% of species
- 2 NHMRC Australian Drinking Water Guidelines (2004) * Field Measurements Underlaken on 27 March 2009
- ANZECC Australian Water Quality Guidelines for Fresh and Marine Waters, 2000 Level for NSW Lowland Rivers.
- 🐃 ANZECC Australian Water Quality Guidelines für Fresh and Marine Waters, 2000 Level für Sputh-East Australian Estuaries
- A In the absence of a health guideline the aesthetic guideline concentration has been quoted
- " In the absence of locally endorsed guidelines, the Dutch intervention levels specified in "Circular on target values and intervention values for soil remediation" (Ministry of Housing and the Environment 2000) have been quoted
- In the absence of a high reliability guideline concentration, the moderate or low reliability guideline concentration has been used.
- NSW DECC (EPA) Guidelines for Assessing Service Station Sites (1994).
- In the absence of Australian guidelines, the laboratory practical quantitation limit has been used.

Concentration above the Site Assessment Criteria.

VALUE

ABBREVIATIONS: NA : Not Analysed

NSL: No set limit

PQL: Practical Quantitation Limit

LPQL: - Less than Practical Quantitation Limit

ALPQL:- all results less than the Practical Quantitation Elmit



TABLE E-1 SOIL INTRA-LABORATORY DUPLICATE RESULTS QA/QC - RELATIVE PERCENTAGE DIFFERENCES

SAMPLE	ANALYSIS	INITIAL	REPEAT	MEAN	RPD
		(mg/kg)	(mg/kg)	(mg/kg)	%
Intra-laboratory	Arsenic	- 8	9	8.5	12
Soil	Cadmium	LPQL	LPQL	LPQL	NC
sample ID = BH10 (0.2-0.5)	Chromium	21	26	23.5	21
Dup ID = Dup 1	Copper	29	30	29.5	3
	Lead	29	30	29.5	3
Envirolab Report: 27442	Mercury	LPQL	LPQL	LPQL	NC
	Nickel	16	21	18.5	27
	Zinc	43	44	43.5	2
	Naphthalene	LPQL	LPQL	LPOL	NÇ
	Acenaphthylene	LPQL	LPQL	LPOL	NÇ
	Acenaphthene	LPQL	LPQL	LPOL	NÇ
	Fluorene	LPQL	LPQL	LPQL	NÇ
	Phenanthrene	0.2	0.1	0.15	67
	Anthracene	LPQL	LPQL	LPQL	NÇ
	Fluoranthene	0.6	0.7	0.65	15
	Pyrene	0.6	0.7	0.65	15
	Benzo(a)anthracene	0.4	0.5	0.45	22
	Chrysene	0.5	0.5	0.5	0
	Benzo(b)&(k)fluorant	0.5	0.7	0.6	33
	Benzo(a)pyrene	0.3	0.4	0.35	29
	Indeno(123-cd)pyrene	0.2	0.2	0.2	0
	Dibenzo(ah)anthracene	LPQI.	LPOL	LPQL	NC
	Benzo(ghi)perylene	0.1	0.2	0.15	67
	Total PAHs	3.4	[4 - 	3.7	16

ABBREVIATIONS:

PQL: Practical Quantitation Limit

LPQL: Less than PQL NC: Not Calculated



TABLE E-2 SOIL INTRA-LABORATORY DUPLICATE RESULTS QA/QC - RELATIVE PERCENTAGE DIFFERENCES

SAMPLE	ANALYSIS	INITIAL	REPEAT	MEAN	RPO
		(mg/kg)	(mg/kg)	(mg/kg)	%
Intra-laboratory	Arsenic	11	7	9	44
Soil	Cadmium	LPQL	LPQL	LPQL	NC
sample ID = BH7 (0.4-0.7)	Chromium	18	19	18.5	5
Dup (D = D up 2	Copper	18	21	19.5	15
	Lead	29	24	26.5	19
Envirolab Report: 27442	Mercury	0.2	LPQI,	0.125	120
	Nickel	6	13	9.5	74
	Zinc	32	40	36	22
	Naphthalene	£PQL −	LPQL	LPQL	NC
	Acenaphthylene	LPQL	LPQL	l.PQL	NC
	Acenaphthene	LPQL	LPQL	LPQL	NČ
	Fluorene	LPQL	LPQL	LPGL	NC
	Phenanthrene	LPQL	LPQL	LPQL	NC
	Anthracene	LPQL	LPQL	LPQL	NC
	Fluoranthene	0.2	0.3	0.25	40
	Ругеле	0.2	0.3	0.25	40
	Benzo(a)anthracens	0.1	0.1	0.1	0
	Chrysene	0.2	0.2	0.2	0
	Benzo(b)&(k)fluorant	0.3	0.3	0.3	0
	Benzo(a)pyrene	0.1	0.2	0.15	67
	Indeno(123-cd)pyrene	0.1	0.1	0.1	0
	Dibenzo(ah)anthracene	L.PQL	LPQL	LPQL	NC
	Benzo(ghl)perylene	0.1	0.1	6.1	0
	Total PAHs	1.3	1.6	1.45	21

ABBREVIATIONS:

PQL: Practical Quantitation Limit

LPGL: Less than PQL NA: Not Analysed NC: Not Calculated



TABLE F GROUNDWATER INTRA-LABORATORY DUPLICATE RESULTS QA/QC - RELATIVE PERCENTAGE DIFFERENCES

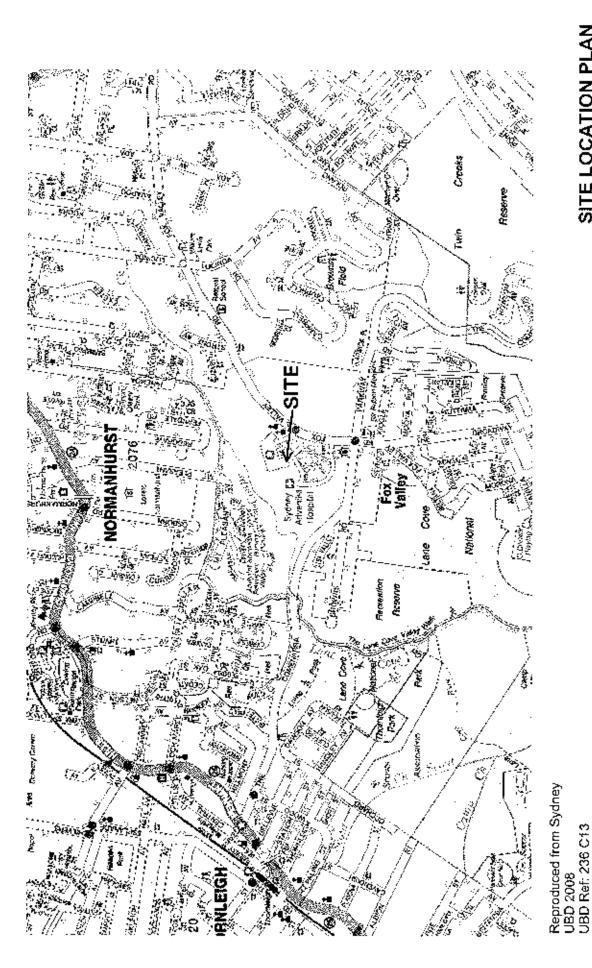
SAMPLE	ANALYSIS	INITIAL	REPEAT	MEAN	RPD
		(mg/L)	(mg/L)	(mg/L)	%
Intra-laboratory	Arsenio	0.0092	0.0092	0.0092	0
Groundwater	Cadmium	0.0002	0.0002	0.0002	0
sample ID = MW17	Chromium	LPQL	LPGL	LPQL	ИC
Dup ID = Đạp A	Соррег	LPQL	ĹPQL	LPOL	NC
	Lead	0.05	0.055	0.0525	10
Envirolab Report: 27715	Mercury	LPQL	LPOL	LPQL	NC
	Nickel	0.05	0.05	0.05	0
	Zinç	0.11	0.09	0.1	20
	C _E -C ₉ TPH	LPQL	LPQL	LPQL.	NC
	C:6-C14 TPH	LPQL	LPQL	LPQL	NC
	C ₁₅₇ C ₂₈ TPH	LPQL	LPQL	LPQL	NC
	C ₂₅ -C ₃₅ TPH	LPQL	LPQL	LPQL	NC
	Benzene	LPQL	LPQL	LPQL	NC
	Toluene """	LPQL	LPQL	LPQL	NC
	Ethythenzene	LPQL	LPQL	LPQL	NC
	Total Xylenes	LPQL	LPQL	LPQL	NC

ABBREVIATIONS:

PQL: Practical Quantitation Limit

I.PQL: Less than PQL NA: Not Analysed NC: Not Calculated





SITE LOCATION PLAN

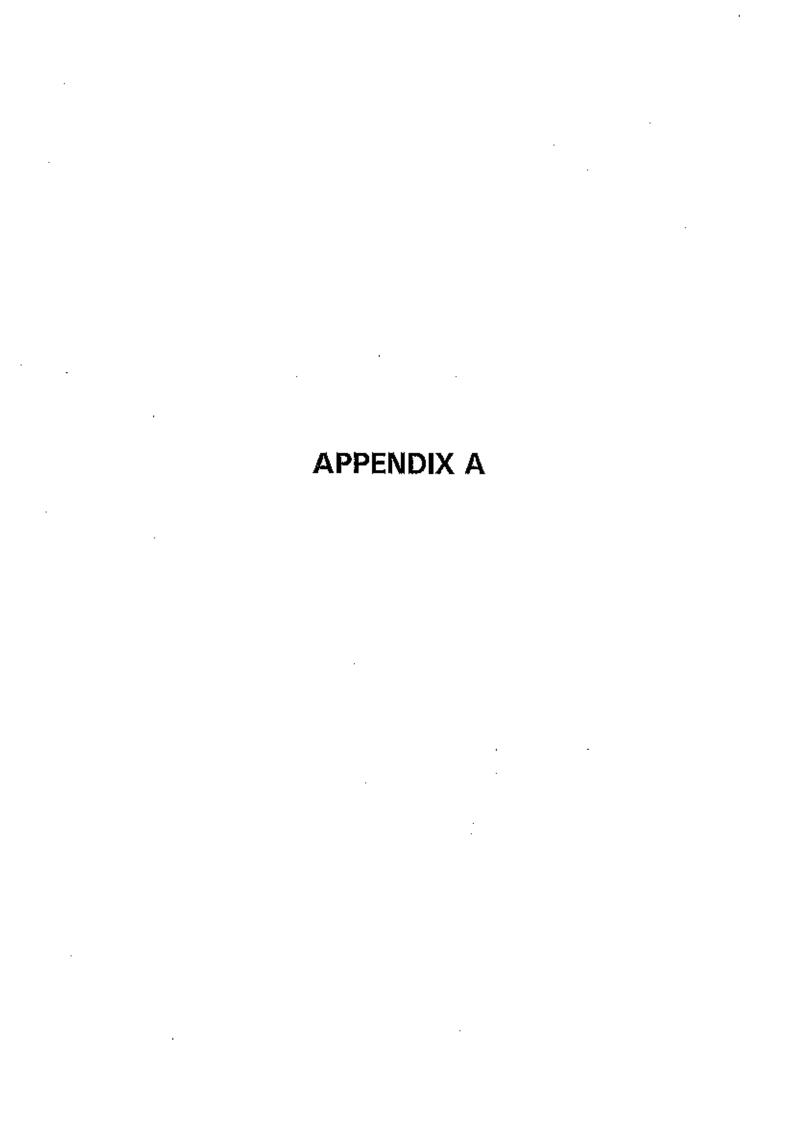
SYDNEY ADVENTIST HOSPITAL 185 FOX VALLEY ROAD, WAHROONGA



ENVIRONMENTAL INVESTIGATION SERVICES

Note: Reference should be made to the text for a full understanding of this plan







BOREHOLE LOG

Borehole No.

SYDNEY ADVENTIST HOSPITAL LIMITED Client:

Project: HOSPITAL UPGRADE AND EXTENSIONS - STAGE 1

Location	on:	SAN	HOSP	ITAL,	FOX \	/ALLEY ROAD, WAHROONG	A, NSW			
Job No Date:						od: SPIRAL AUGER JK300 Jed/Checked by: G.F./ D			.L. Surfa	ace: ≈ 159.8m AHD
Becord	U50 SAMPLES OB SAMPLES OS 1	Field Tests	j Oj Depth (m)	Głaphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Mand Penetrometer Readings (kPa.)	Rentarks
DRY ON COMPLET ION		N = 6 3,3,3	3		SC CL	TOPSOIL/FILL: Silty clay, low to medium plasticity, brown, with fine of medium grained sand and gravel and a trace of root fibres. FILL: Clayey sand, fine to medium grained, light brown, with a trace of clay nodules and fine to medium grained sandstone gravel. CLAYEY SAND: fine to medium grained, light brown. SANDY CLAY: medium: plasticity, yellow brown. SANDSTONE: fine to medium grained, light grey and orange brown, with iron indurated bands. END OF BOREFIOLE AT 2,0m	MC>Pt XW DW	(St) EL		POSSIBLY FILE VERY LOW 'TC' BIT RESISTANCE LOW TO MODERATE RESISTANCE



BOREHOLE LOG

Barehole No.
JK2

SYDNEY ADVENTIST HOSPITAL LIMITED Client:

Project: HOSPITAL UPGRADE AND EXTENSIONS - STAGE 1

Loca	tion	1:	SAN	HOSP	ITAL,	FOX Y	VALLEY ROAD, WAHROONG	A, NSW			
Job I Date			2758Z 3-09				nod: SPIRAL AUGER JK300 ged/Checked by: G.F./		.L. Surf	ace: ≈ 157.9m AHD	
Groundwater Record	Groundwater Record ES USO DB SAMPLES DS Heid Tests Depth (m)		Graphic Log	Unified Classification	DESCRIPTION	Moistare Candition/ Weathering	Strengtb/ Rel, Density	Hand Penetrometer Roadings (KPa.)	Semarks		
DAY ON COMPLET JON			N = 8 3,5,3	i			FILL: Silty clay, low to medium plasticity, brown, with root fibres and a trace of fine to coarse grained gravel and fine to medium grained. FILL: Clayey sand, fine to medium grained, brown and grey, with fine to medium grained gravel, with a trace of clay nodules. FILL: Sand, fine to medium grained,	MC≗PL M			GRASS COVER APPEARS POORLY COMPACTED
				2 -	X. X. Y . Y		Nyellow trown. END OF BOREHOLE AT 1.5m				BOREHOLE TERMINATED DUE TO PROXIMITY TO ELECTRICAL CABLES -
				3-							• •
				4							- - -
				6-							-
				,							



BOREHOLE LOG

Borehole No.

SYDNEY ADVENTIST HOSPITAL LIMITED Client:

Project: HOSPITAL UPGRADE AND EXTENSIONS - STAGE 1

SAN MOSPITAL, FOX VALLEY BOAD, WAHROONGA, NSW

Location: SAN MOSPITAL, FOX VALLEY ROAD, WAHROONGA, NSW										
1	No. 22				Meth	nod: SPIRAL AUGER			ace: ≈ 161.6m	
Date	: 16-3	-09				JK300	Datum: AHD			
					Logg	ed/Checked by: G.F./	<u></u>		_'	
Groundwater Record	Pecord Record ES DS DS DS Field Tests			Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Resoings (kPa.)	Remarks
ORY OF COMPLETION OF AUGER	Τ =	N = 30 2.3,7	3 - 1 - 5 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6	J.D.	- ci.	FILL: Clayey silt, low plasticity, dark brown, with a trace of wood chips, fine to medium grained gravel and glay nodules. SANDY CLAY: medium plasticity, high brown. SANDSTONE: fine to medium grained, light gray and orange brown. REPER TO CORED BOREHOLE LOG	MC>PL XW XW-DW	VSi EL	240 280 310	VERY LOW 'TC' BIT RESISTANCE LOW TO MODERATE RESISTANCE
			. 7							· - -



CORED BOREHOLE LOG

Borehole No. JK3

Client: SYDNEY ADVENTIST HOSPITAL LIMITED

Project: HOSPITAL UPGRADE AND EXTENSIONS - STAGE 1

SAN HOSPITAL, FOX VALLEY ROAD, WAHROONGA, NSW Location:

Job No. 22758Z Core Size: NMLC R.L. Surface: ≈ 161.6m

Da	te:	16-3	-09	Inclina	tion	VFF	RTICAL	Datu	m: AHD				
i		ype:							ed/Checked by: G.F./				
\vdash		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		CORE DESCRIPTION			POINT	DEFECT DETAILS					
Water Loss/Level	Barrel Lift	Depth Im)	Graphic Log	Rock Type, grain character- istics, colour, structure, minor components.	Weathering	Strength	LOAD STRENGTH INDEX I _e (50)	DEFECT	DESCRIPTION Type, inclination, thickness, planarity, roughness, coating, Specific General				
90% RET- URN	B0	8 6 P		START CORING AT 2.89m SANDSTONE: fine to medium grained, light grey and orange brown, with iron indurated (bands.) CORE LOSS 0.47m SANDSTONE: fine to medium grained, red brown, orange brown and light grey. SANDSTONE: fine to medium grained, light grey, with occasional red brown and orange brown iron indurated bands. SANDSTONE: fine to medium and orange brown, with iron indurated bands and occasional laminae, bedded at 0-5°. SANDSTONE: fine to medium grained, light grey and orange brown, with occasional darker laminae, bedded at 0-5°. END OF BOREHOLE AT 6.87m	≫ DW	VL-L	X X X		- J. 40 50°, P. S - J. 40 50°, P. S - J. 40 50°, P. S - J. 40 90°, Jn. R - CS. Bonnia - XWS. 210mm.i - J. 80-80°, P. S - XWS. 70mm.i - J. 50-60°, P. S - XWS, 70mm.i - J. 50-60°, P. S - XWS, 5nm.s - CLASS 18 50mm OIAMETER PVČ ŠTÁNOSPĘ PIEZOMETER INSTALLED TO 8.97m. MACHINE SLOTTED FROM 8.97m TO 3.97m. CASING FAOM. 3.94m. TO SUBFACE. Zmm SAND FILTER PACK FROM 6.97m TO 3.5m., BENTONITE SEAL FROM 3.5m. TO 2.5m. BACKFILLED TO SURFACE WITH CAST IRON GAFIC COVER AND LOCKABLE CAP AT SURFACE				



BOREHOLE LOG

Borehole No. JK4

SYDNEY ADVENTIST HOSPITAL LIMITED Client:

HOSPITAL UPGRADE AND EXTENSIONS - STAGE 1 Project:

SAN HOSPITAL, FOX VALLEY ROAD, WAHROONGA, NSW Location:

Job No. 22758Z Date: 16-3-09						nod: SPIRAL AUGER JK300			.L. Surf	ace: ≈ 161.2m AHD
					Logg	ed/Checked by: G.F./				
Groundwater Record 1050 SAMPLES 1050 Field Tests		Depth (ml Graphic Log Unified Classification			DESCRIPTION	Moisture Condition/ Weathering	Strongth/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks	
DRY ON COMPLETION OF AUGER- ING		N = 16 8,7,9	3-	D CONTRACTOR OF THE PARTY OF TH	-	ASPIJALTIC CONCRETE: 30mm.t FILL: Sandy silty gravel, fine to medium grained, grey, igneous gravel. FILL: Clayey sand, fine to medium grained, light brown, with a trace of fine to medium grained sandstene gravel and clay nodules. FILL: Sandy clay, low to medium grained, yellow brown, with a tracel of fine to medium grained sandstone and ironstone gravel. SANDSTONE: fine to medium grained, light grey and orange brown. REFER TO CORED BORE; OLE LOG	MCXPL XW DW	EL	I d d	APPEARS WELL COMPACTED LOW 'TC' BIT RESISTANCE
	:		- : -							- - ·



CORED BOREHOLE LOG

Borehole No. JK4

Client: SYDNEY ADVENTIST HOSPITAL LIMITED

Project: HOSPITAL UPGRADE AND EXTENSIONS - STAGE 1

SAN HOSPITAL, FOX VALLEY ROAD, WAHROONGA, NSW Location:

Jo	þΝ	o. 22	2758	Z Core S	ize:	NML	R.L.	R.L. Surface : ≈ 161.2m						
Da	ıte:	16-3	-09	Inclina	tion:	VEF	RTICAL	Date	Datum: AHD					
Dr	Drill Type: JK300				g: -			Logged/Checked by: G.F./						
Stevel	-		50	CORE DESCRIPTION Rock Type, grain character-	ō:		POINT LOAD STRENGTH	DEFECT	DEFECT DETAILS DESCRIPTION					
Water Loss/Level	Barrel Lift	Depth (m)	Graphic Log	estics, colour, structure, minor components.	Weathering	Strength	INDEX	SPACING (mm)	Type, inclination, thickness, planarity, roughness, coating. Specific General					
		3 · · · · · · · · · · · · · · · · · · ·	WWW.	START CORING AT 2,77m SANDSTONE: (ine to medium grained, light grey and orange brown. SANDSTONE: fine to medium grained, light grey, with occasional dark grey laminae, bedued at 0-10°. CORE LOSS 0.28m SHALE: grey, with light grey laminae, bedded at 0-5°.		L-M	STAPE WASHE		Specific General . J. 15°, P. S - Bu, 0°, P. S - Bu, 0°, P. S - Cr. 15mm (
		8		SANDSTONE: fine to medium grained, light grey, red brown and orange brown, with iron indurated bands. SANDSTONE: fine to medium grained, light grey and crange brown, with grey laminae, bedded at 0-15°. END OF BOREHOLE AT 6.98m		M	*		9e, 5·10°, p 9e, 5·10°, p 9e, 0°, p, 1\$					
	ot	9_				i								



BOREHOLE LOG

Borehole No.

SYDNEY ADVENTIST HOSPITAL LIMITED Client:

Project: HOSPITAL LIPGRADE AND EXTENSIONS - STAGE 1

	No. 2	2758Z 3-09				nod: SPIRAL AUGER JK300 jed/Checked by: G.F./	R.L. Surface: ≈ 160.1m Datum: AHD				
Groundwater Record	Groundwater Record ES USO SAMPLES DS Field Tests			Graphic Log	Unified Classification	DESCRIPT!ON	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks	
DRY ON COMPLET ION OF AUGER- ING		N 19 7,10,9	0 - - 1-			ASPHALTIC CONCRETE: 30mm.t / FILL: Silty sandy gravel, fine to medium grained, gray, igneous. FILL: Clayey silt, low plasticity, brown, with a trace of fine to medium grained gravel and clay nodules. SANDSTONE: fine to medium grained, tight gray, orange brown, with iron indurated bands.	wd-wx	-	-	APPEARS MODERATELY TO WELL COMPACTED MODERATE TO BIT RESISTANCE WITH VERY LOW BANDS	
		:	2 -			SANDSTONE: fine to medium grained, light grey, rad brown and orange brown, with iron indurated bands. REFER TO CORED SOREHOLE LOG	DW	<u>-</u> L.		LOW TO MODERATE RESISTANCE	
										-	
			5 - 5 -							- - -	
				 		:- > > > > > > > > > > > > > > > > > > >					



CORED BOREHOLE LOG

Borehole No. JK5

SYDNEY ADVENTIST HOSPITAL LIMITED Client:

HOSPITAL UPGRADE AND EXTENSIONS - STAGE 1 Project:

SAN HOSPITAL, FOX VALLEY ROAD, WAHROONGA, NSW Location:

R.L. Surface: ≈ 160.1m Core Size: NMI C. Joh No. 227587

Joi	b N	o. 22	2758	Z Core S	ize:	NML	.C	R.L.	R.L. Surface: ≈ 160.1m				
Da	te:	13-3	-09	Inclina	tion:	VEF	RTICAL	Datu	m: AHD				
Dri	O T	ype:	JK3	00 Bearing	3: -			Logged/Checked by: G.F./12					
ss/Level		_	ĥ	CORE DESCRIPTION Rock Type, grain character-	50		POINT LOAD STRENGTH	DEFECT SPACING	EFECT DETAILS DESCRIPTION				
Water Loss/Level	Barre! Lift	Depth (m)	Graphic Log	istics, colour, structure, minor components.	Weathoring	Strength	INDEX I _S (50)	(mnı)	Type, inclination, thickness, planarity, raughness, coating. Specific General				
		3		START CORING AT 2.75m SANDSTONE: fine to medium grainers, light grey and rod brown.	DW D∳A	J. JM.)			- J, 20°, P, S				
		-		CORE LOSS 0.20m SANDSTONE: fine to medium grained, fight grey and red brown, with from indurated bands	xw ow	EL t-M	×		- C: ZGNF - Be, CA, P. S. IS - Be, CA, P. S. IS - Be, CA, F. S. IS				
		4 -		SANDSTONE: fine to medium grained, light grey and yellow brown. SANDSTONE: fine to medium grained, light grey, orange brown and red brown, with iron indurated bands.		M VL·L	×		- Be. O*, F. 5, IS - Be. O*, P. S. IS - Be. O*, P. 5, IS - Be. O*, P. 5, IS - Be. O*, P. 5, IS - D. 40-50*, P. 6, IS - XWS, 30mm.t - Cr. 25mm t - Be, O*, P. S. IS - XWS, 30mm.t				
		5		SANDSTONE: fine to medium grained, prange brown, red brown and light grey, with fron indurated bands. SANDSTONE: fine to medium	XW	E ₊			- XWS, 30mm.1 - J, 40-55°. P, R				
		6··		grained, light grey and orange brown.			×		- J. 70-85°, P. R				
<u> </u>	┧┈╌			END OF BOREHOLE AT 6.64m	<u>-</u>								
		7			///				-				

CONSULTING ENVIRONMENTAL ENGINEERS



ENVIRONMENTAL LOG

Borehole No.

6

1/1

Environmental logs are not to be used for geotechnical purposes

Client:	SYDNEY A	DVENTIST I	HOSPITAL				
Project:	SAH UPGR	ADE AND E	XTENSIONS				
Location:	FOX VALL	EY ROAD, V	VAHROONGA, NSW				
Job No. E22	2758K	Meti	nod: EZIPROBE		R	.L. Surf	ace: N/A
Date: 12-3-0	09				D	atum:	
		Logo	ged/Checked by: B.P./版				
Groundwater Record ES ASS SAMPLES SAL	Field Tests Depth (m)	Graphic Log Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
DRY ON COMPLET- ION	-		ASPHALTIC CONCRETE: 50mm.t over ROADBASE 200mm.t FILL: Silty clay, medium plasticity, brown and orange brown, with a trace of ironstone and sandstone gravel, ash and sand.	MC < PL	•	-	-
			Filt: Silty sand, fine to medium grained, brown, with a trace of ironstone and sandstone gravel and ash. SILTY CLAY: medium plasticity,	D			- - -
	2 -		orange brown, with ironstone gravel bands. SANDSTONE: fine to medium grained, light yellow brown.	MC < PL	_		REFUSAL ON
	3-		But grey and grange brown. END OF BOREHOLE AT 2.5m				SANDSTONE BEOROCK
	4-						· - -
	5 -						- -
	6-						· - ·
	7						

CONSULTING ENVIRONMENTAL ENGINEERS



ENVIRONMENTAL LOG

Borehole No. **7**

Environmental logs are not to be used for geotechnical purposes

Client: SYDNEY ADVENTIST HOSPITAL Project: SAH UPGRADE AND EXTENSIONS Location: FOX VALLEY ROAD, WAHROONGA, NSW Job No. E22758K Method: EZIPROBE R.L. Surface: N/A Date: 12-3-09 Datum: Logged/Checked by: B.P./&M. SAMPLES Hand Penetrometer Readings (kPa.) Groundwater Record Unified Classification Strength/ Rel. Density 5 Condition/ Weathering ield Tests Depth (m) DESCRIPTION Remarks Graphic DRY ON ASPHALTIC CONCRETE: 50mm.t COMPLET over ROADBASE 150mm.t. MC<PL FILL: Sifty clay, medium to high ION plasticity, brown and orange brown, with a trace of ironstone, sandstone and igneous gravel. SANDY CLAY: medium plasticity, MC<PL orange brown, fine to medium grained sand, with a trace of ash and organic material. SANDSTONE: fine to medium ΧW ∖\grained, light grey. END OF BOREHOLE AT 3.0m

CONSULTING ENVIRONMENTAL ENGINEERS



ENVIRONMENTAL LOG

Borehole No.

1/1

Environmental logs are not to be used for geotechnical purposes

Clien	it:	SYDN	IEA VI	DVEN.	TIST I	HOSPITAL							
Proje	ct:	SAH	UPGR.	ADE A	AND EXTENSIONS								
Loca	tion:	FOX	VALLE	Y RO	AD, WAHROONGA, NSW								
Job	No. E	22758K			Meth	nod: EZIPROBE		Ħ	.L. Surf	ace: N/A			
ŀ	Date: 12-3-09								atum:				
D ato. 12 0 00					Logg	ed/Checked by: B.P.///		_					
	ရွှ												
Groundwater Record	ES ASS ASB SAL	Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Ref. Density	Hand Penetrometer Readings (kPa.)	Remarks			
DRY ON COMPLET			0	$\times\!\!\times\!\!\times$		ASPHALTIC CONCRETE: 50mm.t. /		-	- :	<u>-</u>			
IOM			-		ÇĽ	nedium grained, grey, fine to /medium grained igneous gravel. / SANDY CLAY: medium plasticity,	MC < PL		-				
			-		٠	orange brown, fine to medium / [[grained sand.]	XW	٠,		REFUSAL ON			
			1.			SANDSTONE: fine to medium grained, grey and orange.				_ INFERRED SANDSTONE			
			-			END OF BOREHOLE AT 0.75m				BEDROCK			
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CONSULTING ENVIRONMENTAL ENGINEERS



ENVIRONMENTAL LOG

Borehole No.

9

1/1

Environmental logs are not to be used for geotechnical purposes

Clien					DVEN						
Proje Loca							XTENSIONS /AHROONGA, NSW				
l			2758K			Meth	od: EZIPROBE			.L. Surf	ace: N/A
Date	: 12	2-3-(J9			Logg	ed/Checked by: B.P./M		υ	atum:	
Groundwater Record	ES ASS SAMPLES	SAL	Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel, Density	Hand Penetrometer Readings (kPa.)	Remarks
DRY ON COMPLET ION				1			ASPHALTIC CONCRETE: 50mm.t over ROADBASE 150mm.t FILL: Sand, fine to coarse grained, light red brown, with a trace of fine grained sandstone grave1.	Þ	-	-	
							as above, but light yellow brown, sandstone gravel absent. SANDSTONE: fine to medium	xw		_	
				3			Agraíned, light grey and red brown. END OF BOREHOLE AT 2.0m				REFUSAL ON INFERRED SANDSTONE BEDROCK

CONSULTING ENVIRONMENTAL ENGINEERS



ENVIRONMENTAL LOG

Borehole No. 10

Environmental logs are not to be used for geotechnical purposes

SYDNEY ADVENTIST HOSPITAL Client: Project: SAH UPGRADE AND EXTENSIONS Location: FOX VALLEY ROAD, WAHROONGA, NSW Job No. E22758K Method: EZIPROBÉ R.L. Surface: N/A Date: 12-3-09 Datum: Logged/Checked by: B,P. 🙀 Hand Penetrometer Readings (KPa.) SAMPLES Unified Classification Groundwater Record Strength/ Rel. Density Graphic Log Condition/ Weathering Field Tests Depth (m) DESCRIPTION Remarks DRY ON ASPHALTIC CONCRETE: 100mm.t COMPLET over ROADBASE 100mm.t. MC<PE ION FILL: Silty sandy clay, medium plasticity, brown, fine to medium. grained sand, with a trace of isandstone and shale gravel and ash, FILL: Silty clay, high plasticity, grey mottled red and orange brown, with la trace of ash and ironstone gravel. as above, but orange brown, with a trace of ironstone gravel, ash, slag and CL <u>sandstone gravel.</u> MQ < PL SILTY CLAY: medium plasticity, XW orange brown, with a trace of ijronstone gravel. SANDSTONE: fine to medium REFUSAL ON <u>lgrained, grey and orange brown.</u> INFERRED END OF BOREHOLE AT 2.3m SANDSTONE BEDROCK



BOREHOLE LOG

Borehole No. **JK11**

SYDNEY ADVENTIST HOSPITAL LIMITED Client:

Project: HOSPITAL UPGRADE AND EXTENSIONS - STAGE 1

SAN HOSPITAL, FOX VALLEY BOAD, WAHROONGA, NSW

Loca	tion:		SAN	HOSP	ITAL,	FOX \	ALLEY ROAD, WAHROONGA	A, NSW			
	Job No. 22758Z Date: 12-3-09					Meth	od: SPIRAL AUGER JK300			.L. Surf	ace: ≈ 161.6m AHD
		_				Logg	ed/Checked by: G.F./				
Groundwater Record	ES USQ SAMPLES		Field Tests	اس} باغطهرا	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strengthi Rel. Density	Hand Penetrometer Readings (KPa.)	Remarks
DRY ON COMPLET ION OF AUGER-ING			N = 4 2.3.1			-	CONCRETE: 100mm.t FILL: Gravelly silty clay, high plasticity, brown, grey, orange brown and red brown, with fine to medium grained shale, igneous and sandstone gravel and fine to medium grained sand.	MC > PL	-	: .	Binin D:AMETER REINFORCEMENT, SOmm TOP COVER APPEARS POORLY COMPACTED
ION OF CORING				2-			SANDSTONE: fine to medium grained, light grey, with iron indurated bands.	DW	М-H		MODERATE 'TC' BIT RESISTANCE MODERATE TO HIGH RESISTANCE
				3 4 5 6 6 6 6 6 6			REFER TO CORED BOREHOLE LUG				
				7							



CORED BOREHOLE LOG

Borehale Na. JK 11 2/2

SYDNEY ADVENTIST HOSPITAL LIMITED Client:

HOSPITAL UPGRADE AND EXTENSIONS - STAGE 1 Project:

SAN HOSPITAL, FOX VALLEY ROAD, WAHROONGA, NSW Location:

Jot	No	o. 22	2 75 8	Z Core S	Size:	NML	-C	R.L.	R.L. Surface: ≈ 161.6m					
Dat	te:	12-3	9-09	Inclina	ition:	VE	RTICAL	Datu	Datum: AHD					
Dril	O Ty	уре:	JK30	00 Bearin	g : -			Logged/Checked by: G.F./						
lêx	ŀ			CORE DESCRIPTION			POINT	D	EFECT DETAILS					
Water Loss/Level	Barre! Lift	Deptir Ini)	Graphic Log	Rock Type, grain character- istics, colour, structure, minor components.	Weathering	Strength	LOAD STRENGTH INDEX I _s (50)	(mm)	OESCRIPTION Type, inclination, thickness, clanarity, roughness, coaturg.					
Š	20	2	Ū		5) iii	37 AT 15 11 AN ES	. : : : : : : : : : : : : : : : : : : :	Specific General					
		3-		START CORING AT 2.72m SANDSTONE: fine to medium grained, orange brown and light grey. SANDSTONE: fine to medium grained, light grey, with dark grey laminac, bodded at 0.5°.	DW SW	M	×		• Be, Os, P. S Bo, Os, P. S • Bo, Os, P. S • Bo, Os, P. S					
ОМ	: : : !	4		gray isinings, bedoed at 6 9 1			× ×		- Ber. O°. P. S - Ber. O°. P. S - Ber. S°					
RET- URN		5					× .		- XWS, 10mm.: - XWS, 5mm.:					
		G -					×	-	- Bo, 5°, ₹, S					
	H	7-		END OF BOREHOLE AT 6.88m	_	 								
		3							-					



BOREHOLE LOG

Borehole No.

SYDNEY ADVENTIST HOSPITAL LIMITED Client:

HOSPITAL UPGRADE AND EXTENSIONS - STAGE 1 Project:

Loca	tion	:	SAN	HÖSP	ITAL,	FOX \	ALLEY ROAD, WAHROONG	A, NSW				
Job I Date			758Z -09			Meth	nod: SPIRAL AUGER JK300	R.L. Surface: ≈ 161.2m Datum: AHD				
						Logg	jed/Checked by: G.F./ 🥬					
Groundwater Record	USO CAMPIFE	28.	Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks	
DRY ON				0			CONCRETE: 230mm.t					
COMPLET ION OF AUGER- ING			N = 17 5.10,7	-		-	FILL: Silty sandy gravel, fine to medium grained, grey, igneous and / sandstone gravel. FILL: Silty day, medium plasticity,	M MC>PL	-	-	APPEARS WELL COMPACTED	
]				1		CII	grey, grange brown, brown and red brown, with a trace of fine to medium grained shale, igneous and	j			-	
:			SPT 22/150min			-	ironstone gravel, with fine to medium grained sand and a trace of lash. SILTY CLAY: high plasticity, orange librown, brown and red brown, with a	xw	€L	- - -	VERY LOW 'TC' BIT RESISTANCE	
:				2-			trace of fine to medium grained from to medium grained sand. SANOSTONE: fine to medium	DW	M		MODERATE RESISTANCE	
				3	7 7 7		igrained, light grey and orange brown. SANDSTONE: fine to medium grained, orange brown and light ligrey, with iron indurated bands. REFER TO CORED BOREHOLE LOG				-	
				- - 4 -							-	
!												
				5 -								
:				- ៩ -								
				7						; ; ;		



CORED BOREHOLE LOG

Borehole No.
JK12
_{2/2}

SYDNEY ADVENTIST HOSPITAL LIMITED Client:

HOSPITAL UPGRADE AND EXTENSIONS - STAGE 1 Project:

Location: SAN HOSPITAL, FOX VALLEY ROAD, WAHROONGA, NSW

Jo	b N	o. 22	2758	Z Core S	ize:	NML	.С	R.L. Surface : ≈ 161.2m			
Da	te:	12-3	-09	łn clina:	tion:	VEF	RTICAL	Datu	ım: AHD		
Dr	ill T	ype:	JK3	00 Bearing	g: -			Logo	ged/Checked by: G.F./ 🕏		
- - -	İ			CORE DESCRIPTION			POINT	1	DEFECT DETAILS		
Water Loss/Level	Barrel Lift	Depth (m)	Graphic Log	Rock Type, grain character- istics, colour, structure, minor components.	Woathering	Strength	LOAD STRENGTH INDEX I _S (50)	DEFECT SPACING (mm)	DESCRIPTION Type, inclination, thickness, planarity, roughness, coating, Specific General		
80% RET- URN		3 5 5		START CORING AT 2.64m SANDSTONE: fine to medium grained, orange brown and light grey, with iron indurated bands. SANDSTONE: fine to medium grained, light grey, with orange brown laminae, bedded at 0-15 and occasional iron indurated bands. SANDSTONE: fine to medium grained, light grey, with dark grey laminae, bedded at 0-10°.	Ďw	I. M	E. 1 8 E		- XWS, 2mm t - XWS, 2mm t - Be, 5°, P, S, IS - Br, 5°, P, S, IS - C', 5mm; - Be, 6°, P, S - Br, 0°, P, S - Br, 0°, P, S		



JK13

BOREHOLE LOG

Client: SYDNEY ADVENTIST HOSPITAL LIMITED

Project: MOSPITAL LIPGRADE AND EXTENSIONS - STAGE 1

Proje Loca						AND EXTENSIONS - STAGE 1 ALLEY ROAD, WAHROONG	A, NSW					
	No. 22 : 13-3					nod: SPIRAL AUGER JK300 jed/Checked by: G.F./		R.L. Surface: ≈ 162.5m Datum: AHD				
Groundwater Record	ES USO SAMPLES US US	Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Roadings (KPa.)	Remarks		
DRY ON OMPLET ION OF AUGER- ING AFTER CORING		N > 15 5,15/ 150mm REFUSAL	C -		CL-CH	medium grained igneous gravel and is trace of clay. SILTY CLAY: medium to high plasticity, light grey mottled red brown and brange brown, with a trace of fine grained sand.	M MC>PL	VSt- H	380 460 450	9mm DIAMETER		
			z			SANDSTONE: fine grained, light ∖grey, with iron indurated bands. REFER TO CORED BORSHOLE LOG				· ·		
			3 - - - - -							- - - -		
			5 -									
			6 - - - -							- - -		



CORED BOREHOLE LOG

Borehole No.
JK13
_{2/2}

Client: SYDNEY ADVENTIST HOSPITAL LIMITED

HOSPITAL UPGRADE AND EXTENSIONS - STAGE 1 Project:

SAN HOSPITAL, FOX VALLEY ROAD, WAHROONGA, NSW Location:

Joh No. 227587 Core Size: NMI C

Job	N	2. 22	2758	Z Core S	ize:	NML	.C	R.L. Surface: ≈ 162.5m				
Dat	e:	12-3	-09	Inclina	tion:	VER	RTICAL	Datum: AHD				
Đril	ΙŢ	ype:	ЈКЗ	00 Bearing	g: -			Logg	ed/Checked by: G.F./∯∠			
ter Loss/keve	Water Lossitieves Barrel Lift Depth (m) Graphic Log		phic Log	CORE DESCRIPTION Rock Type, grain characteristics, colour, structure, minor components.	Weathering	Strength	POINT LOAD STRENGTH INDEX I _S (50)	DEFECT SPACING (mm)	DESCRIPTION Type, inclination, thickness, planarity, roughness, coating.			
<u> </u>	င္ထို	Ç.	ပ်		3	Šī	EL VL 1 M 9 VII E		Specific General			
	i			START CORING AT 1.39m								
90% BET- URN] : 2		CORE LOSS 0.13m SANDSTONE: fine grained, light grey, with M-H strength from indurated bands.	DW	VL"	*		- PICKLY FRAGMENTED - J. 40°, P. IS - XWS/CS, 70mm.t - J. 80-00°, P. R			
	إ			SANDSTONE: fine grained, light grey, orange brown and surple brown, with M-H strength iron indurated bands. SANDSTONE: fine grained, light		L 	×		- XWS. Singlit - GS, 6 Smm.t			
		3		\grey, with iron indurated bands. SANDSTONE: fine to medium grained, grey, with dark grey laminae, bedded at 0-10°, and \occasional iron indurated bands. SANDSTONE: fine to medium		M M M	×:		- J, 45°, P, ន - XWS, 5-10°, 5mm t			
80% - RET- URN		4 - · - -		grained, orange brown and light grey, with dark grey laminae, bedded at 0-10°. SANDSTONE: fine to medium grained, light grey, with dark grey laminae, bedded at 0-10°.			×					
		5 -		SANDSTONE: fine to medium grained, light grey, with occasional dark grey laminae, bedded at 0-10°.			**************************************					
		G ·		END OF BOREHOLE AT 5.72m								
		7 8 <u></u>										



BOREHOLE LOG

Borehole No.

JK14

Client: SYDNEY ADVENTIST HOSPITAL LIMITED

Project: HOSPITAL UPGRADE AND EXTENSIONS - STAGE 1

Locat	tion:	SAN	HOSP	ITAL,	FQX \	ALLEY ROAD, WAHROONG	A, NSW					
1		2758Z			Meth	iod: SPIRAL AUGER JK300				ace: ≈ 170.0m		
Date	17-	3- 09						Datum: AHD				
<u> </u>	(0	<u> </u>			rogg	ed/Checked by: G.F./ L	·		r			
Groundwater Record	ES SAMPLES	Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks		
DRY ON COMPLET			Ċ			ASPHALTIC CONCRETE: 200mm.t			<u>.</u>			
ION OF AUGER- ING		N = 3 3,1,2	- - - 1•		-	FILL: Sitty clay, low to medium plasticity, brown and grey, with fine to medium grained sand and a trace of fine to medium grained gravel.	MC≟PL	-		APPEARS POCRLY COMPACTED		
			2 -			FILL: Sandstone boulder.				LOW TO MODERATE TO BIT RESISTANCE		
			3-			FILL: Silty clay, medium plasticity, brown and orange brown, with a trace of fine to coarse grained shale, sandstone, igneous and ironstone gravel.	MC≥PL			APPEARS MODERATELY COMPACTED		
	:	N = 10 5,4,6							,			
					CH	SILTY CLAY: high plasticity, orange	100 × D1		ļ ļ			
		N = 18 5,7,11	5 -		CIT	brown mottled light brown, with a trace of fine grained ironstone gravel.	WIC / F1	n	410 500 550	- -		
			6 –		CL	SILTY CLAY: medium plasticity, light grey mottled red brown, with a trace of fine to medium grained ironstone gravel.	MÖKPL					
		N = 37 10,15.22				SHALE: dark grey, with clay bands.	xw	 EL	> 600 > 600	· 		
			7			V		_	1			



BOREHOLE LOG

Borehole No.

JK14

Client:

SYDNEY ADVENTIST HOSPITAL LIMITED

Project:

HOSPITAL UPGRADE AND EXTENSIONS - STAGE 1

Location:

SAN HOSPITAL, FOX VALLEY ROAD, WAHROONGA, NSW

Job No. 22 Date: 17-3				hod: SPIRAL AUGER JK300 ged/Checked by: G.F./		R.L. Surface: ≈ 170.0m Đatum: AHD				
Groundwater Record ES ES SAMPLES DB				DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rol, Density	Hand Penetrometer Readings (kPa.)	Semarks		
				SHALE: dark grey, with clay bands. REFER TO CORED BOREHOLE LOG	XW	EL VL		LOW TO BIT RESISTANCE		
		8 -			 			 -		
		: : : : :								
		: 9 −; :						-		
:		10								
								-		
		11 -						- -		
		12 -						-		
	ļ	13-						-		
:		-								
		16						-		



CORED BOREHOLE LOG

Borehole No. JK14

Client: SYDNEY ADVENTIST HOSPITAL LIMITED

Project: HOSPITAL UPGRADE AND EXTENSIONS - STAGE 1

SAN HOSPITAL, FOX VALLEY ROAD, WAHROONGA, NSW Location:

Job No. 22758Z Core Size: NMLC R.L. Surface: ≈ 170.0m

Dat	te:	17-3	3-09	Inclinat	tion:	VEF	RTICAL	Datur	m: AHD
Dri	II T	ype:	JK3	00 Bearing	g: -			Loggi	ed/Checked by: G.F./
Water Loss/Level	Barrel Lift	Depth (m)	Graptine Log	CORE DESCRIPTION Rock Type, grain characteristics, colour, structure, minor components.	Weathering	Strength	POINT LOAD STRENGTH INDEX I _S (50)	DEFECT SPACING (mm)	DESCRIPTION Type, inclination, thickness, planarity, roughness, coating. Specific General
		, , , , , , , , , , , , , , , , , , ,		START CORING AT 7.46m					
		B - - - 9 -		INTERBEDDED SILTY CLAY AND SHALE: medium to high plasticity, light grey, with iron indurated bands.	MC > PI	(V\$:::) EL			чэ - 280,3;0.3;0
90% RET- URN		10-		SHALE: grey, with iron indurated bands. SANDSTONE: fine grained, light grey, brown and red brown, with iron indurated bands.	XW- DW	EL-VI.	× ·		MP = 450,410,400 - J, 50-90°, Mn, R - J, 70-85°, P, 5, 15 - CS, 20mm,t - CS, 60mm,t - Bg, 0°, F, 1S - Be, 0°, F, 1S
		- 11 - -		SANDSTONE: fine grained, light grey, with dark grey laminae, bedded at 0.5° and XW seams.		L-M	×		- 86, 0°, P, 5 - 8e, 0° P, S - XWS, born 1
		12-				VL L-M	×:	-	- XWS, 10mm (- Cr. Smin.) - Cr. Smin.) - XWS, 30mm (- XWS, 20mm) - Cr. 20mm.)
		13 -		END OF BOREHOLE AT 12.78m					



BOREHOLE LOG

Borehole No.
JK15

Client: SYDNEY ADVENTIST HOSPITAL LIMITED

LICCOLTAL LIBODADE AND EVTENISIONS - STACE 1

Project: Location:		HOSPITAL UPGRADE AND EXTENSIONS - STAGE 1 SAN HOSPITAL, FOX VALLEY ROAD, WAHROONGA, NS							, NSW					
Job No. 22 Date: 16-3					ood: SPIRAL AUGER JK300 ed/Checked by: G.F./		R.L. Surface: ≈ 169.9m Datum: AHD							
Groundwater Record KS USO SAMPLES DS	Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetromeser Readings (KPa.)	Remarks					
DRY ON COMPLET	N 5 1,2,3	1 -			Fig.: Sity day, medium plasticity, brown, with fine to medium grained shale, igneous, sandstorie and ironstone gravel, with a trace of fine to medium grained sand and root fibres. FIEL: Sandstone boulder, orange	MC>PI.			GRASS COVER APPEARS POORLY COMPACTED MODERATE TC* BIT					
		3			Fill: Sifty clay, medium plasticity, pown, with a trace of fine to medium grained sand and gravel. END OF BOREHOLE AT 2.0m	MC>PL			RESISTANCE SOIL RESISTANCE					
		5							·					



BOREHOLE LOG

Borehole No.
JK16

SYDNEY ADVENTIST HOSPITAL LIMITED Client:

Project: HOSPITAL UPGRADE AND EXTENSIONS - STAGE 1

Location:	SAN HOSE	PITAL, FOX	ALLEY ROAD, WAHROONG	A, NSW				
Job No. 227 Date: 17-3-0			JK300	R.L. Surface: ≈ 162.7m Datum: AHD				
. 40		Logg	jed/Checked by: G.F./ A					
Groundwater Record ES USO SAMPLES DS	Field Tests Depth (m)	Graphic Log Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks	
DAY ON!	0	CL-CH	[[President, Bank D. Owni, with 1001]	MC>PL MC>PL	Н	-	GRASS COVER	
iON J	N = 8 3.4,4		fibres. SETY CLAY: medium to high plasticity, light brown mottled red brown, with a trace of fine to medium grained ironstone gravel.			400 410 400	_	
	N = 14		SETY CLAY: medium to high plasticity. Eight grey mottled red brown and grange brown, with a trace of root fibres and fine to		VSt -H	310 390		
	8.7,7		medium grained ironstone gravel. END OF BOREHOLE AT 1.95m			420		
	3 - 4 ·							



BOREHOLE LOG

Borehole No. **JK17**

SYDNEY ADVENTIST HOSPITAL LIMITED Client:

HOSPITAL UPGRADE AND EXTENSIONS - STAGE 1 Project:

SAN HOSPITAL, FOX VALLEY ROAD, WAHROONGA, NSW.

Loca	uon.	JAN	HOSPITAL, FOX VALLEY ROAD, WAHROONGA, NSW									
		22758Z	Method: SPIRAL AUGER JK300						R.L. Surface: ≈ 162.6m			
Date:	: 17-	3-09							Datum: AHD			
		1 :			Logg	ed/Checked by: G.F./ 💯	_		,			
Groundwater Record	Groundwater Record ES US		Graphic Log	Unified Classification	DESCRIPTION	Mossture Condition/ Weathering	Strongth/ Rel. Density	Hand Penetremeter Readings (kPa.)	Remarks			
DRY ON COMPLET			C -			TOPSOit/FILL: Silty clay, medium plasticity, brown, with a trace of	MC≥PL			GRASS COVER		
1014		N = 7 2,3,4	- - - 1 •		Ç	\root fibres and fine to medium grained gravel. SILTY CLAY: high plasticity, light brown mottled red brown, with a trace of fine to medium grained ironstone gravel and root fibres.	MC > PL	К	500 550 >600	CLASS 18 50mm OHAMETER PVC STANDPIPE PIEZOMETER INSTALLED TO 6m MACHINE SLOTTED FROM 6m TO 3m, CASING FROM, 3m		
		N = 11 7,6,5	2 ***		CL	SILTY SANDY CLAY: low to medium plasticity, light grey mottled orange brown and a trace of fine to medium grained ironstone gravel and reputibres.			310 350 360	TO SUBFACE. 2mm SAND FILTER PACK FROM 6m TO 2.5m, BENTONITE SEAL FROM 2.5m TO 1.5m, BACKPILLED TO SUBFACE WITH		
			3 -		,	SANDSTONE: fine to medium grained, light grey and crange brown. SANDSTONE: fine to medium grained, light grey, orange brown and red brown, with iron indurated bands.	ow .	EL L-M		CAST IRON GATIC COVER AND LICOKABLE CAP AT SURFACE MODERATE TO BIT RESISTANCE		
			∵			SANDSTONE: fine to medium grained, light grey.		M-H	Total Annual Processing	MODERATE TO HIGH RES:STANCE		
•			- - - -			END OF BOREHOLE AT 6.0m	į					

CONSULTING ENVIRONMENTAL ENGINEERS



ENVIRONMENTAL LOG

Borehole No.

1/1

Environmental logs are not to be used for geotechnical purposes

Client: SYDNEY ADVENTIST HOSPITAL Project: SAH UPGRADE AND EXTENSIONS Location: FOX VALLEY ROAD, WAHROONGA, NSW Job No. E22758K Method: EZIPRÖBE R.L. Surface: N/A Date: 12-3-09 Datum: Logged/Checked by: B.P./X SAMPLES Hand Penetrometer Readings (kPa.) Unified Classification Groundwater Record Strength/ Rel. Density Graphic Log Condition/ Weathering Depth (m) DESCRIPTION Remarks DRY ON ASPHALTIC CONCRETE: 50mm.t COMPLET FILL: Silty clay, high plasticity, IQN orange brown, with a trace of СН MC<PL sandstone, ironstone and igneous gravel. REFUSAL SILTY CLAY: high plasticity, orange brown, with Iron indurated sandstone bands. END OF BOREHOLE AT 0.6m 5 -

CONSULTING ENVIRONMENTAL ENGINEERS

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ENVIRONMENTAL LOG

Borehole No.

1/1

Environmental logs are not to be used for geotechnical purposes

Client: SYDNEY ADVENTIST HOSPITAL Project: SAH UPGRADE AND EXTENSIONS Location: FOX VALLEY ROAD, WAHROONGA, NSW Job No. E22758K Method: EZIPROBE R.L. Surface: N/A Date: 12-3-09 Datum: Logged/Checked by: B.P.//浏 SAMPLES Hand Penetronseter Readings (kPa.) Unified Classification Groundwater Record Strength/ Rel. Density Graphic Log Condition/ Weathering Field Tests Depth (m) DESCRIPTION Remarks DRY ON MC>PL GRASS COVER FILL: Silty clay, medium plasticity, COMPLET dark brown, with a trace of root MC<PL fibres, igneous gravel and ash. ION SILTY CLAY: high plasticity, orange brown mattled red brown, with sent and a trace of ironstone gravel. CL-CH as above, but with ironstone bands, sand absent. REFUSAL ON SILTY CLAY: medium to high INFERRED plasticity, grey mottled red brown, SANDSTONE with iron indurated sandstone bands BEUROCK END OF BOREHOLE AT 1.2m 2

CONSULTING ENVIRONMENTAL ENGINEERS



ENVIRONMENTAL LOG

Borehole No. **20**

Environmental logs are not to be used for geotechnical purposes

Client: SYDNEY ADVENTIST HOSPITAL Project: SAH UPGRADE AND EXTENSIONS Location: FOX VALLEY ROAD, WAHROONGA, NSW Job No. E22758K Method: EZIPROBE R.L. Surface: N/A Date: 12-3-09 Datum: Logged/Checked by: B.P./// SAMPLES Hand Penetrometer Readings (kPa.) Groundwater Record Unified Classification Strength/ Ref. Density Condition/ Weathering Graphic Log Field Tests Depth (m) DESCRIPTION Remarks DRY ON ASPHALTIC CONCRETE: 20mm.t MC>₽L COMPLETE FILL: Sandy gravelly clay, medium СН MC>8L ION pfasticity, igneous, shale and isandstone gravel. SILTY CLAY: high plasticity, orange brown. as abovo. but with iron inudrated sandstone bands REFUSAL ON END OF BOREHOLE AT 1.3m INFERRED SANDSTONE 2

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CONSULTING ENVIRONMENTAL ENGINEERS



ENVIRONMENTAL LOG

Borehole No.

1/1

Environmental logs are not to be used for geotechnical purposes

Client: SYDNEY ADVENTIST HOSPITAL Project: SAH UPGRADE AND EXTENSIONS Location: FOX VALLEY ROAD, WAHROONGA, NSW R.L. Surface: Job No. E22758K Method: EZIPROBE N/A Date: 12-3-09 Datum: Logged/Checked by: 8.P./M., SAMPLES Mand Penetrometer Readings (KPa.) Unified Classification Groundwater Record Strength/ Rel. Density Graphic Log Condition/ Weathering Ê DESCRIPTION Remarks Depth [DBY ON ASPHALTIC CONCRETE: 50mm.t COMPLET FILL: Silty clay, medium plasticity, ION grey brown, with sand and shale gravel and a trace of igneous gravel. ÇН SILTY CLAY: high plasticity, orange MÇ∻PL brown, with iros indurated <u>∖sandstono</u> bands. REFUSAL END OF BOREHOLE AT 1.5m 2 6

Jeffery and Katauskas Pty Ltd

CONSULTING GEOTECHNICAL AND ENVIRONMENTAL ENGINEERS ABN 17 003 550 801



REPORT EXPLANATION NOTES

INTRODUCTION

These notes have been provided to amplify the geotechnical report in regard to classification methods, field procedures and certain matters relating to the Comments and Recommendations section. Not all notes are necessarily relevant to all reports.

The ground is a product of continuing natural and manmade processes and therefore exhibits a variety of characteristics and properties which vary from place to place and can change with time. Geotechnical engineering involves gathering and assimilating limited facts about these characteristics and properties in order to understand or predict the behaviour of the ground on a particular site under certain conditions. This report may contain such facts obtained by inspection, excavation, probing, sampling, testing or other means of investigation. If so, they are directly relevant only to the ground at the place where and time when the investigation was carried out.

DESCRIPTION AND CLASSIFICATION METHODS

The methods of description and classification of soils and rocks used in this report are based on Australian Standard 1726, the SAA Site Investigation Code. In general, descriptions cover the following properties – soil or rock type, colour, structure, strength or density, and inclusions. Identification and classification of soil and rock involves judgement and the Company infers accuracy only to the extent that is common in current geotechnical practice.

Soil types are described according to the predominating particle size and behaviour as set out in the attached Unified Soil Classification Table qualified by the grading of other particles present (eg sandy clay) as set out below:

Soil Classification	Particle Size
Clay	less than 0.002mm
Silt	0.002 to 0.06mm
Sand	0.06 to 2mm
Gravel	2 to 60mm

Non-cohesive soils are classified on the basis of relative density, generally from the results of Standard Penetration Test (SPT) as below:

Relative Density	SPT 'N' Value (blows/300mm)
Very loose	less than 4
Loose	4 – 10
Medium dense	10 - 30
Dense	30 50
Very Dense	greater than 50

Cohesive soils are classified on the basis of strength (consistency) either by use of hand penetrometer, laboratory testing or engineering examination. The strength terms are defined as follows.

Classification	Unconfined Compressive Strength kPa
Very Soft	less than 25
Soft	25 - 50
Firm	50 - 100
Stiff	100 - 200
Very Stiff	200 – 400
Hard	Greater than 400
Friable	Strength not attainable – soil crumbles

Rock types are classified by their geological names, together with descriptive terms regarding weathering, strength, defects, etc. Where relevant, further information regarding rock classification is given in the text of the report. In the Sydney Basin, 'Shale' is used to describe thinly bedded to laminated siltstone.

SAMPLING

Sampling is carried out during drilling or from other excavations to allow engineering examination (and laboratory testing where required) of the soil or rock.

Disturbed samples taken during drilling provide information on plasticity, grain size, colour, moisture content, minor constituents and, depending upon the degree of disturbance, some information on strength and structure. Butk samples are similar but of greater volume required for some test procedures.

Undisturbed samples are taken by pushing a thin-walled sample tube, usually 50mm diameter (known as a U50), into the soil and withdrawing it with a sample of the soil contained in a relatively undisturbed state. Such samples yield information on structure and strength, and are necessary for laboratory determination of shear strength and compressibility. Undisturbed sampling is generally effective only in cohesive soils.

Details of the type and method of sampling used are given on the attached logs.

INVESTIGATION METHODS

The following is a brief summary of investigation methods currently adopted by the Company and some comments on their use and application. All except test pits, hand auger drilling and portable dynamic cone penetrometers require the use of a mechanical drilling rig which is commonly mounted on a truck chassis.



Test Pits: These are normally excavated with a backhoe or a tracked excavator, allowing close examination of the insitu soils if it is safe to descend into the pit. The depth of penetration is limited to about 3m for a backhoe and up to 6m for an excavator. Limitations of test pits are the problems associated with disturbance and difficulty of reinstatement and the consequent effects on close-by structures. Care must be taken if construction is to be carried out near test pit locations to either properly recompact the backfill during construction or to design and construct the structure so as not to be adversely affected by poorly compacted backfill at the test pit location.

Hand Auger Drilling: A borehole of 50mm to 100mm diameter is advanced by manually operated equipment. Premature refusal of the hand augers can occur on a variety of materials such as hard clay, gravel or ironstone, and does not necessarily indicate rock level.

Continuous Spiral Flight Augers: The borehole is advanced using 75mm to 115mm diameter continuous spiral flight augers, which are withdrawn at intervals to allow sampling and insitu testing. This is a relatively economical means of drilling in clays and in sands above the water table. Samples are returned to the surface by the flights or may be collected after withdrawal of the auger flights, but they can be very disturbed and layers may become mixed. Information from the auger sampling (as distinct from specific sampling by SPTs or undisturbed samples) is of relatively lower reliability due to mixing or softening of samples by groundwater, or uncertainties as to the original depth of the samples. Augering below the groundwater table is of even lesser reliability than augering above the water table.

Rock Augering: Use can be made of a Tungsten Carbide (TC) bit for auger drilling into rock to indicate rock quality and continuity by variation in drilling resistance and from examination of recovered rock fragments. This method of investigation is quick and relatively inexpensive but provides only an indication of the likely rock strength and predicted values may be in error by a strength order. Where rock strengths may have a significant impact on construction feasibility or costs, then further investigation by means of cored boreholes may be warranted.

Wash Soring: The borehole is usually advanced by a rotary bit, with water being pumped down the drill rods and returned up the annulus, carrying the drill cuttings. Only major changes in stratification can be determined from the cuttings, together with some information from "feel" and rate of penetration.

Mud Stabilised Drilling: Either Wash Boring or Continuous Core Drilling can use drilling mud as a circulating fluid to stabilise the borehole. The term 'mud' encompasses a range of products ranging from bentonite to polymers such as Revert or Biogel. The mud tends to mask the cuttings and reliable identification is only possible from intermittent intact sampling (eg from SPT and U50 samples) or from rock coring, etc.

Continuous Core Drilling: A continuous core sample is obtained using a diamond tipped core barrel. Provided full core recovery is achieved (which is not always possible in very low strength rocks and granular soils), this technique provides a very reliable (but relatively expensive) method of investigation. In rocks, an NMLC triple tube core barrel, which gives a core of about 50mm diameter, is usually used with water flush. The length of core recovered is compared to the length drilled and any length not recovered is shown as CORE LOSS. The location of losses are determined on site by the supervising engineer; where the location is uncertain, the loss is placed at the top end of the drill run.

Standard Penetration Tests: Standard Penetration Tests (SPT) are used mainly in non-cohesive soils, but can also be used in cohesive soils as a means of indicating density or strength and also of obtaining a relatively undisturbed sample. The test procedure is described in Australian Standard 1289, "Methods of Testing Soils for Engineering Purposes" – Test F3.1.

The test is carried out in a borehole by driving a 50mm diameter split sample tube with a tapered shoe, under the impact of a 63kg hammer with a free fall of 760mm. It is normal for the tube to be driven in three successive 150mm increments and the 'N' value is taken as the number of blows for the last 300mm. In dense sands, very hard clays or weak rock, the full 450mm penetration may not be practicable and the test is discontinued.

The test results are reported in the following form:

 In the case where full penetration is obtained with successive blow counts for each 150mm of, say, 4, 6 and 7 blows, as

$$N = 13$$
4, 6, 7

 In a case where the test is discontinued short of full penetration, say after 15 blows for the first 150mm and 30 blows for the next 40mm, as

> N>30 15, 30/40mm

The results of the test can be related empirically to the engineering properties of the soil.

Occasionally, the drop harmer is used to drive 50mm diameter thin walled sample tubes (U50) in clays. In such circumstances, the test results are shown on the borehole logs in brackets.

A modification to the SPT test is where the same driving system is used with a solid 60° tipped steel cone of the same diameter as the SPT hollow sampler. The solid cone can be continuously driven for some distance in soft clays or loose sands, or may be used where damage would otherwise occur to the SPT. The results of this Solid Cone Penetration Test (SCPT) are shown as "No" on the borehole logs, together with the number of blows per 150mm penetration.



Static Cone Penetrometer Testing and Interpretation: Cone penetrometer testing (sometimes referred to as a Dutch Cone) described in this report has been carried out using an Electronic Friction Cone Penetrometer (EFCP). The test is described in Australian Standard 1289, Test F5.1.

In the tests, a 35mm diameter rod with a conical tip is pushed continuously into the soil, the reaction being provided by a specially designed truck or rig which is fitted with an hydraulic ram system. Measurements are made of the end bearing resistance on the cone and the frictional resistance on a separate 134mm long sleeve, immediately behind the cone. Transducers in the tip of the assembly are electrically connected by wires passing through the centre of the push rods to an amplifier and recorder unit mounted on the control truck.

As penetration occurs (at a rate of approximately 20mm per second) the information is output as incremental digital records every 10mm. The results given in this report have been plotted from the digital data.

The information provided on the charts comprise:

- Cone resistance the actual end bearing force divided by the cross sectional area of the cone - expressed in
- Sleeve friction the frictional force on the sleeve divided by the surface area - expressed in kPa.
- Friction ratio the ratio of sleeve friction to cone resistance, expressed as a percentage.

The ratios of the sleeve resistance to cone resistance will vary with the type of soil encountered, with higher relative friction in clays than in sands. Friction ratios of 1% to 2% are commonly encountered in sands and occasionally very soft clays, rising to 4% to 10% in stiff clays and peats. Soil descriptions based on cone resistance and friction ratios are only inferred and must not be considered as exact.

Correlations between EFCP and SPT values can be developed for both sands and clays but may be site specific.

Interpretation of EFCP values can be made to empirically derive modulus or compressibility values to allow calculation of foundation settlements.

Stratification can be inferred from the cone and friction traces and from experience and information from nearby boreholes etc. Where shown, this information is presented for general guidance, but must be regarded as interpretive. The test method provides a continuous profile of engineering properties but, where precise information on soil classification is required, direct drilling and sampling may be preferable.

Portable Dynamic Cone Penetrometers: Portable Dynamic Cone Penetrometer (DCP) tests are carried out by driving a rod into the ground with a sliding hammer and counting the blows for successive 100mm increments of penetration.

Two relatively similar tests are used:

- · Cone penetrometer (commonly known as the Scala Penetrometer) - a 16mm rod with a 20mm diameter cone end is driven with a 9kg hammer dropping 510mm. (AS1289, Test F3.2). The test was developed initially for pavement subgrade investigations, and correlations of the test results with California Bearing Ratio have been published by various Road Authorities.
- Perth sand penetrometer a 16mm diameter flat ended rod is driven with a 9kg hammer, dropping 600mm (AS1289, Test F3.3). This test was developed for testing the density of sands (originating in Perth) and is mainly used in granular soils and filling.

LOGS

The borehole or test pit logs presented herein are an engineering and/or geological interpretation of the subsurface conditions, and their reliability will depend to some extent on the frequency of sampling and the method of drilling or excavation. Ideally, continuous undisturbed sampling or core drilling will enable the most reliable assessment, but is not always practicable or possible to justify on economic grounds. In any case, the boreholes or test pits represent only a very small sample of the total subsurface conditions.

The attached explanatory notes define the terms and symbols used in preparation of the logs,

Interpretation of the information shown on the logs, and its application to design and construction, should therefore take into account the spacing of boreholes or test pits, the method of drilling or expanation, the frequency of sampling and testing and the possibility of other than "straight line" variations between the boreholes or test pits. Subsurface conditions between boreholes or test pits may vary significantly from conditions encountered at the borehole or test pit locations.

GROUNDWATER

Where groundwater levels are measured in boreholes, there are several potential problems:

- Although groundwater may be present, in low permeability soils it may enter the hole slowly or perhaps not at all during the time it is left open.
- A localised perched water table may lead to an erroneous indication of the true water table.
- · Water table levels will vary from time to time with seasons or recent weather changes and may not be the same at the time of construction.
- The use of water or mud as a drilling fluid will mask any. groundwater inflow. Water has to be blown out of the hole and drilling mud must be washed out of the hole or 'reverted' chemically if water observations are to be made.



More reliable measurements can be made by installing standpipes which are read after stabilising at intervals ranging from several days to perhaps weeks for low permeability soils. Piezometers, sealed in a particular stratum, may be advisable in low permeability soils or where there may be interference from perched water tables or surface water.

FILL.

The presence of fill materials can often be determined only by the inclusion of foreign objects (eg bricks, steel etc) or by distinctly unusual colour, texture or fabric. Identification of the extent of fill materials will also depend on investigation methods and frequency. Where natural soils similar to those at the site are used for fill, it may be difficult with limited testing and sampling to reliably determine the extent of the fill.

The presence of fill materials is usually regarded with caution as the possible variation in density, strength and material type is much greater than with natural soil deposits. Consequently, there is an increased risk of adverse engineering characteristics or behaviour. If the volume and quality of fill is of importance to a project, then frequent test pit excavations are preferable to boreholes.

LABORATORY TESTING

Laboratory testing is normally carried out in accordance with Australian Standard 1289 'Methods of Testing Soil for Engineering Purposes'. Details of the test procedure used are given on the individual report forms.

ENGINEERING REPORTS

Engineering reports are prepared by qualified personnel and are based on the information obtained and on current engineering standards of interpretation and analysis. Where the report has been prepared for a specific design proposal (eg. a three storey building) the information and interpretation may not be relevant if the design proposal is changed (eg to a twenty storey building). If this happens, the company will be pleased to review the report and the sufficiency of the investigation work.

Every care is taken with the report as it relates to interpretation of subsurface conditions, discussion of geotechnical aspects and recommendations or suggestions for design and construction. However, the Company cannot always anticipate or assume responsibility for:

- Unexpected variations in ground conditions the potential for this will be partially dependent on borehole spacing and sampling frequency as well as investigation technique.
- Changes in policy or interpretation of policy by statutory authorities.
- The actions of persons or contractors responding to commercial pressures.

If these occur, the company will be pleased to assist with investigation or advice to resolve any problems occurring.

SITE ANOMALIES

In the event that conditions encountered on site during construction appear to vary from those which were expected from the information contained in the report, the company requests that it immediately be notified. Most problems are much more readily resolved when conditions are exposed that at some later stage, well after the event.

REPRODUCTION OF INFORMATION FOR CONTRACTUAL PURPOSES

Attention is drawn to the document 'Guidelines for the Provision of Geotechnical Information in Tender Documents', published by the Institution of Engineers, Australia. Where information obtained from this investigation is provided for tendering purposes, it is recommended that all information, including the written report and discussion, be made available. In circumstances where the discussion or comments section is not relevant to the contractual situation, it may be appropriate to prepare a specially edited document. The company would be pleased to assist in this regard and/or to make additional report copies available for contract purposes at a nominal charge.

Copyright in all documents (such as drawings, borehole or test pit logs, reports and specifications) provided by the Company shall remain the property of Jeffery and Katauskas Pty Ltd. Subject to the payment of all fees due, the Client alone shall have a licence to use the documents provided for the sole purpose of completing the project to which they relate. License to use the documents may be revoked without notice if the Client is in breach of any objection to make a payment to us.

REVIEW OF DESIGN

Where major civil or structural developments are proposed or where only a limited investigation has been completed or where the geotechnical conditions/ constraints are quite complex, it is prudent to have a joint design review which involves a senior geotechnical engineer.

SITE INSPECTION

The company will always be pleased to provide engineering inspection services for geotechnical aspects of work to which this report is related.

Requirements could range from:

- i) a site visit to confirm that conditions exposed are no worse than those interpreted, to
- a visit to assist the contractor or other site personnel in identifying various soil/rock types such as appropriate footing or pier founding depths, or
- iii) full time engineering presence on site.



GRAPHIC LOG SYMBOLS FOR SOILS AND ROCKS

SOIL		ROCK		DEFEC	TS AND INCLUSIONS
	FILL .		CONGLOMERATE	77772	CLAY SEAM
	TOPSOIL		SANDSTONE		SHEARED OR CRUSHED SEAM
	CLAY (CL, CH)	TO THE PART OF THE	SHALE	9 9 9 9	BRECCIATED OR SHATTERED SEAMIZONE
	SILT (ME, MH)		SILTSTONE, MUDSTONE, CLAYSTONE		IRONSTONE GRAVEL
	SAND (SP, SW)		LIMESTONE		ORGANIC MATERIAL
250 18 80 18 300	GRAVEL (GP, GW)		PHYLLITE, SCHIST	ОТНЕ	R MATERIALS
	SANDY CLAY (CL, CH)		TUPF	7907	CONCRETE
	SILTY CLAY (CL, CH)	10 m	GRANITE, GABBRO		BITUMINOUS CONCRETE,
	CLAYEY SAND (SC)	* * * * * * * * * * * * * * *	DOLERITE, DIORITE		COLEUVIUM
	SILTY SAND (SM)		BASALT, ANDESITE		
	GRAVELLY CLAY (CL, CH)		QUARTZITE		
	CLAYEY GRAVEL (GC)				
	SANDY SILT (ML)				
	PEAT AND ORGANIC SOILS				

Jeffery and Katauskas Pty Ltd consulting Geotechnical & ENVIRONMENTAL ENGINEERS



UNIFIED SOIL CLASSIFICATION TABLE

Leboratory Classification Criteria	C _V = $\frac{D_{44}}{D_{10}}$ Greater than 4 C _C = $\frac{(C_{10})^4}{(C_{10})^4}$ Retween 1 and 3	Not	Attendenty limits below Above "A" line with P between their at 191 less with P between their at and I are	Atterberg limits above "A" line, with Pl	$C_{G} = \frac{D_{EQ}}{D_{AQ}} \text{Greater than 6}$ $C_{G} = \frac{D_{EQ}}{D_{AQ}} \text{Greater than 6}$ $C_{G} = \frac{(D_{AQ})^{2}}{D_{AQ}} \text{Between 1 and 3}$	Norm	9 Attenburg limits below Above "A" line	Atterbors limits below	1	Companies sols at equal liques limit and	l'organes end der streight invesse.	100	107	10 20 30 40 50 50 20 30 30 30	Eliquid limit	Pasticity chart	not laboratory classification of fine grained soils
	asis niss SV nish :ewollol	se pay salicia S ulos	յ բասն <u>լ</u>	איכן שטכ	x8 30 table	poteen	ລະເງເນລ	277CJ			kabni B 🕏	ytioites) 路 옵	d 2	6	,		ğ
Information Required for Describing Soils	met indicat centages of	and stavel; maximum size; anguatity, surface condition, and hardness of the coatse	greins; local of goologic flums and other pertinent descriptive information; and symbols in parachides	oforma- spre of ntation,	onoditions and screetscies		Brains Course to fine, about 15% non-plastic fines with 100 lowers fines with 100 lowers 100 courses and model and model in place 150.		101	a Bujājjavaş	T	Convertion oders is any least or section of sections oders in any least or sections of sec	****		and drainage conditions	Clayer stir, brown: slightly places of	Sinc stand; numerous vervical root hotes; from and dry in place; Joess; (MZ)
Typical Names	Well graded gravels, gravels, sand mixtures, little or no fones	Poorly graded gravely, gravely sand mixtores, little or no Goes	Suly gravels, poorly graded gravel-sand-sitt mixtures	Clayey gravels, poorly graded gravel-sand-clay mixtures	Well graded sands, gravely sands, little or no dnes	Pourly graded sands, gravelly sands, little or no fines	Sity sands, poorly graded sands site mercures	Clayey sands, poorly graded			Inorganic silts and recy due sands, rock flour, sitty or clayer fine sands with slight plassicity	theorganic clays of few to maddan plasticity, anavely clays, andy clays, silly clays, loan clays.	r and organic silt-		ļģ.	meditats to high	Peat and other faighty organic solls
Group	AK U	29	פא	છુ	Ass	45	SMS	ا ا		 _] 2¥	<u> </u>	20	II.	CH II	10	7.4
ops on	train size and substantial all interpretiate particle	Familia of Sizes Sizes missing	incertion pro-	n procedures,	grain sizes and substantial all intermediate particle	range of sizes sizes missing	frackon pro-	procedures,	in Sieve Size	Toughness (Consistency hear plastic limit)	None	Medjum	Slight	Slight to medium	Time I	Slight to	ur, odour. by fibrous
d basing fracti	C 70 1	Predominantily one size or a range of sizes With some intermediate sizes missing	Norplastic first (for identification occurs to ML below)	Plastic files (for identification procedures) see CL below)	Wide 1985 in grain sizes and substantial amounts of all intermediate particle size	Predominantly one size or a mage of sizes with some intermediate sizes missing	Nonplayic thes (for identification address)	Plastic fines (for identification procedures, see CL below)	elser than 380 o	Distancy (reaction to shaking)	Quick to slow	None to very slow	Słow	Slow to none	Nonc	None to	Readily identified by colour, spougy feel and frequently by texture
identithistion Proce irger than 75 pm an estimated weights)	Wide capae à amounts o sizes	Przdominam With some	Nonplassic f	Plassic fines ()	Wide range is amounts o sizes	Predominapti with some	Nonplayric fi	Plastic fines (S see CL belo	Fraction Sat	Dry Strength (crushing character istics)	None to slight	Medium to high	Stight to medium	Slight to medium	High to very high	Medium to	seadily ident spongy feel textuse
Field identification of Procedures (Excluding particles larger than 75 ym and basing fractions estimated weights)	ize in gearels ile or no fines)	e avuit e avuit esto	Operation of the control of the cont	วไก ว่า ว่า ว่า ว่า ว่า	Series A fore them lets of coarse Therefore is mailtain the fore Sometimes is mailtain the fore Coarse comments Sometimes A forest comments Sometimes Sometim			Identification Procedures on Fraction Smalter than 380 am Sleve Size	SA	OS CUMIT S MACH DON MACHES	52) 218 18:S		<u>" </u>	05 20145 20145	PB Is (Highly Organic Solic	
!	Since the banks of control of the state of t										Ħ						

MOTE: 1) Soils possossing charactoristics of two groups are designated by combinations of group symbols (e.g. GM-GC. well graded gravel-send mixture with clay lines).

2) Soils with liquid limits of the order of 35 to 50 may be visually classified as being of medium plasticity.

ABN 17 Q03 550 801



LOG SYMBOLS

LOG COLUMN	SYMBOL	DEFINITION						
Groundwater Record	-	Standing water level. Time delay following completion of drilling may be shown.						
	-c-	Extent of borehale collapse shortly after drilling.						
	—	Groundwater seepage into borehole or excavation noted during drilling or excavation.						
Samples	ES	Soil sample taken over depth indicated, for environmental analysis.						
	U50	Undisturbed 50mm diameter tube sample taken over depth indicated.						
	OB	Bulk disturbed sample taken over depth indicated.						
	DS	Small disturbed bag sample taken over depth indicated.						
	A\$B	Soil sample taken over depth indicated, for aspectos screening.						
	ASS	Soil sample taken over depth indicated, for acid sulfate soll analysis.						
	SAL	Soil sample taken over depth indicated, for salinity analysis.						
Field Tasts	N = 17 4, 7, 10	Standard Penetration Test (SPT) performed between depths indicated by lines. Individual figures show blows per 150mm penetration. 'R' as noted below.						
	Nc = 5	Solid Cone Penetration Test (SCPT) performed between depths indicated by lines. Individual figures						
	7	show blows per 150mm penetration for 60 degree solid cone driven by SPT hammer. "R" refers to						
	 	apparent hammer refuset within the corresponding 150mm depth increment.						
	3R	4						
	VNS ± 25	Vane shear reading in kPa of Undrained Shear Strength.						
	PID = 100	Photoionisation detector reading in ppm (Soil sample headspace test).						
Moisture Condition	MC>PL	Moisture content estimated to be greater than plastic limit.						
(Cahesive Solts)	MÇ≒PL	Moisture content estimated to be approximately equal to plastic limit.						
	MC < PL	Moisture content estimated to be less than plastic limit.						
(Cohesionless Soils)	Þ	DRY - runs frosty through fingers.						
	м	MOIST - does not run freely but no free water visible on soil surface.						
	W	WET - free water visible on soil surface.						
Strength (Consistancy)	vs	VERY SOFT - Unconfined compressive strength less than 25kPa						
Cohesive Soils	\$	SQFT - Uncontined compressive strangth 25-50kPe						
	þ	FIRM - Unconfined compressive strength 50-100kPa						
	St	STIFF - Unconfined compressive strength 100-200kPa						
	VSt	VERY STIFF - Unconfined compressive strength 200-400kPa						
	н	HARD - Unconfined compressive strength greater than 4C0kPa						
	()	Bracketed symbol indicates estimated consistency based on tactile examination or other tests.						
Density Index/ Relative	•	Density Index [ts] Renge (%) SPT 'N' Value Range (Blows/300mm)						
Density (Cobesionless	VL	Very Loose <15 0-4						
Sails)	L	Loose 15-35 4-10						
	МВ	Medium Dense 35-65 10-30						
	D	Dense 65-85 30-50						
	VD	Very Dense >85 >50						
	{ }	Bracketed symbol indicates estimated density based on ease of drilling or other tests.						
Hand Penetrometer	300	Numbers indicate individual test results in kPa on representative undisturbed material unless noted						
Readings								
	250	otherwise.						
Remarks	'V' bit	Hardened steel "V" shaped bit.						
	'TC' bit	Tungsten çarbide wing bit.						
	T-60	Penetration of auger string in rhm under static load of rig applied by drill head hydraulics without rotation of augers.						

Raf: Standard Shoots/Log Symbols November 2007

Jeffery and Katauskas Pty Ltd

CONSULTING GEOTECHNICAL AND ENVIRONMENTAL ENGINEERS A8N 17 003 550 801



LOG SYMBOLS

ROCK MATERIAL WEATHERING CLASSIFICATION

TERM	SYMBOL	DEFINITION
Rosidual Soil	ភទ	Soil developed on extremely weathered rock; the mass structure and substance fabric are no longer evident; there is a large change in volume but the soil has not been significantly transported.
Extremely weathered rock	ΧW	Rock is weathered to such an extent that it has "soil" properties, ie it either disintegrates or can be remoulded, in water.
Distinctly weathered rock	DW	Rock strength usually changed by weathering. The rock may be highly discoloured, usually by ironstaining. Porosity may be increased by leaching, or may be decreased due to deposition of weathering products in pores.
Slightly weathered rock	5W	Rock is slightly discoloured but shows little or no change of strength from fresh rock.
Fresh rock	FR	Rock shows no sign of decomposition or steining.

ROCK STRENGTH

Rock strength is defined by the Point Load Strength Index (Is 50) and refers to the strength of the rock substance in the direction normal to the bedding. The test procedure is described by the International Journal of Rock Mechanics, Mining, Science and Geomechanics. Abstract Volume 22, No 2, 1985.

TERM	SYMBOL	ls (50) MPa	FIELD GUIDE
Extremely Law:	EL		Easily remoulded by hand to a material with soil properties.
Very Low:	VL	0.03	May be crumbled in the hand. Sandstone is "sugary" and friable.
Low:		0.1	A piece of core 150mm long x 50mm dia, may be broken by hand and easily scored
		0.3	with a knife. Sharp edges of core may be friable and break during handling.
Medium Strength:	M		A piece of core 150mm long x 50mm dia, can be broken by hand with difficulty. Readily scored with knife.
		1	Readily scored with knine.
High:	Н	3	A piece of core 150mm long x 50mm dia, core cannot be broken by hand, can be slightly scretched or scored with knife; rock rings under hammer.
NA I U of .	VH	, v	A piace of core 150mm long x 50mm dia, may be broken with hand-held pick after
Very High:	,,,,	10	more than one blow. Cannot be scratched with per knife; rock rings under hammer.
Extremely High:	EH		A piece of core 150mm long x 50mm dia, is very difficult to break with hand-held hammer. Rings when struck with a hammer.

ABBREVIATIONS USED IN DEFECT DESCRIPTION

ABBREVIATION	DESCRIPTION	NOTES
Ðe	Bedding Plane Parting	Defect prientations measured relative to the normal to the long core axis
C\$	Clay Seam	lie relative to horizontal for vertical holes!
J	Joint	
P	Pianar	
Un	Undulating	
5	Smooth	
R	Rough	
1\$	Ironstained	
XWS	Extremely Weathered Seam	
Cr	Crushed Seam	
60t	Thickness of defect in millimetres	

Rof: Standard Sheats/Log Symbols Royomber 2007





Envirolab Services Pty Ltd

ABN 37 112 535 645 12 Ashley St Chatswood NSW 2067 ph 02 9910 6200 fax 02 9910 6201 enquiries@envirolabservices.com.au www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS 27443

Client:

Environmental Investigation Services PO Box 976 North Ryde BC NSW 1670

Attention: Todd Hore

Sample log in details:

Your Reference: <u>E22758K, Wahroonga</u>
No. of samples: <u>E2758K, Wahroonga</u>
55 Soils, 2 Waters

Date samples received: 18/03/09

Date completed instructions received: 18/03/09

Analysis Details:

Please refer to the following pages for results, methodology summary and quality control data. Samples were analysed as received from the client. Results relate specifically to the samples as received. Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: 25/03/09
Date of Preliminary Report: Not issued Issue Date: 26/03/09

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This document is issued in accordance with NATA's accreditation requirements.

Accredited for compliance with ISO/IEC 17026.

Tests not covered by NATA are denoted with *.

Results Approved By:

David Springerff Business Development & Quality Massger

Jacintofflinest Operations Manager

Envirolab Reference: 27443 Revision No: R 01 Joshua Vim Chemist



			Г	!		
vTPH & BTEX in Soil						
Our Reference:	UNITS	27443-1	27443-2 BH2	i 27443-4	27443-6	27443-10
Your Reference Depth		BH1 0.2-0.4	0.2-0.4	BH3 0.1-0.2	8H4 0.1-0.2	8H5 0 9-1.0
Date Sampled		17/03/09	17/03/09	16/03/09	16/03/09	13/03/09
Type of sample		Şoil	Soil	Soil	Soit	Soif
Date extracted	_	20/03/2009	20/03/2009	20/03/2009	20/03/2009	20/03/2009
Date analysed	_	20/03/2009	20/03/2009	20/03/2009	20/03/2009	20/03/2009
VIPH Cs - C9	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Foluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
		<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	mg/kg			l		
m+p-xyleng	mg/kg 	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Surrogale paa-Trifluorotoluene	%	86	86	<u> 85</u>	84	89
vTPH & BTEX in Soil					γ~	1
Our Reference:	UNITS	27443-12	27443-15	27443-17	27443-19	27443-22
Your Reference		BH6	BH7	8H8	ВН9	BH10
Depth		0.5-0.7	0.4-0.7	0.05-0.3	0.8-1.0	0.2-0.5
Date Sampled		12/03/09	12/03/09	12/03/09	12/03/09	12/03/09
Type of sample		Soit	Soil	Soil	Soil	Şoil
Date extracted	•	20/03/2009	20/03/2009	20/03/2009	20/03/2009	20/03/2009
Date analysed	-	20/03/2009	20/03/2009	20/03/2009	20/03/2009	20/03/2009
vTPH C6 - C0	mg/kg	<25	<25	<25	<25	<25
Benzene 3	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
E1hylbenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
m+p-xylene	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Surrogate aaa-Trifluorotoluene	%	87	87	87	84	88
L			i		L	
vTPH & BTEX in Soil						
Our Reference:	UNITS	27443 -26	27443-33	27443-35	27443-37	27443-41
Your Reference		BH11	BH14	BH14	BH14	BH16
Depth		0.2-0.3	0.4-0.5	2.5-2.8	4.5-4.95	0.3-0.5
Date Sampled		12/03/09	17/03/09	17/03/09	17/03/09	17/03/09
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/03/2009	20/03/2009	20/03/2009	20/03/2009	20/03/2009
Date analysed	-	20/03/2009	20/03/2009	20/03/2009	20/03/2009	20/03/2009
vTPH Ca - Ca	mg/kg	<25	<25	<25	<25	<25
Berizene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
•			1		<1,0	<10
Ethylbenzene	nig/kg	<1.0	<1.0	₹ <1. 0	×1,0	\ \\\
Ethylbenzene m+p-xylene	mg/kg mg/kg	<1.0 <2.0	<1.0 <2.0	<2.0	<2.0	<20
·			1	;		

Envirolab Reference: Revision No: 27443 R 01

NATA

**CARETHE FOT

TECHNICAL

COMPETENCE

VTP14 & BTEX in Soil	<u> </u>			Ţ··		1
Our Reference:	UNITS	27443-42	27443-44	27443-45	27443-46	27443-48
Your Reference		BH17	8H18	BH18	BH19	BH20
Depth		0.1-0.2	0.1-0.3	0.4-0.6	0.0-0.1	0.02-0.2
Date Sampled		17/03/09	12/03/09	12/03/09	12/03/09	12/03/09
Type of sample		Sail	Soil	Soil	Soil	Sort
Date extracted	-	20/03/2009	20/03/2009	20/03/2009	20/03/2009	20/03/2009
Date analysed	-	20/03/2009	20/03/2009	20/03/2009	20/03/2009	20/03/2009
vTPH C3 - Ç9	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
E1hylbenzene	mg/kg	<1 0	<1.0	<1.0	<1.0	<10
m+p-xylene	mg/kg	<2.0	<2.0	<2.0	<2.0	<20
o-Xylene	mg/kg	<1.0	<1.0	<1.0	<1,0	<10
Surrogate aaa-Trifluorotoluene	%	91	87	8 1	84	87

vYPH & BTEX in Soil			
Our Reference:	UNITS	27443-50	27443-52
Your Reference		BH21	FB1
Depth		0.2-0.4	-
Date Sampled		12/03/09	12/03/09
Type of sample		Soil	Soil
Date extracted	-	20/03/2009	20/03/2009
Date analysed	-	20/03/2009	20/03/2009
vTPH C6 - C9	mg/kg	<25	[AA]
Benzene	mg/kg	<0.5	<0.5
Toluène	mg/kg	<0.5	<0.5
Ethylbenzene	mg/kg	<1.0	<1.0
m+p-xylene	mg/kg	<2.0	<2.0
a-Xylene	mg/kg	<1.0	<1.0
Surrogate aaa-Trifluorotoluene	%	82	89



sTPH in Soil (C10-C36)		T	·	1		1
Our Reference:	UNITS	27443-1	27443-2	27443-4	27443-6	27443-10
Your Reference		BH1	BH2	внз	BH4	BH5
Depth		0.2-0.4	0.2-0.4	0.1-0.2	0.1-0.2	0.9-1.0
Date Sampled	č E	17/D3/09	17/03/09	16/03/09	16/03/09	13/03/09
Type of sample		Soil	Sail	Soil	Şoil	Soil
Date extracted	-	20/03/2009	20/03/2009	20/03/2009	20/03/2009	20/03/2009
Date analysed	-	20/03/2009	20/03/2009	20/03/2009	20/03/2009	20/03/2009
TPH C10 - C14	mg/kg	<50	<50	<50	<50	<50
TPH C+5 - C28	mg/kg	<100	<100	<100	<100	<100
TPH C29 - C26	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	88	85	84	114	83
sTPH in Soil (C10-C36)		1	<u></u> .	1		1
Our Reference:	UNITS	27443-12	27443-15	27443-17	27443-19	27443-22
Your Reference		BH6	8H7	BH8	BH9	BH10
Depth		0.5-0.7	0.4-0.7	0.05-0.3	0.8-1.0	0.2-0.5
Date Sampled		12/03/09	12/03/09	12/03/09	12/03/09	12/03/09
Type of sample	.]	Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/03/2009	20/03/2009	20/03/2009	20/03/2009	20/03/2009
Date analysed	-	20/03/2009	20/03/2009	20/03/2009	20/03/2009	20/03/2009
TPH C10 - C14	mg/kg	<50	<50	<50	<50	<50
TPH C15 - C28	mg/kg	<100	<100	<100	<100	<100
TPH C29 - C38	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	97	85	86	86	90
sTPH in Soil (C10-C36)					I	1
Our Reference:	UNITS	27443-26	27443-33	27443-35	27443-37	27443-41
Your Reference		BH11	BH14	BH14	BH14	BH16
Depth		0.2-0,3	0.4-0.5	2.5-2.8	4.5-4.95	0.3-0.5
Date Sampled		12/03/09	17/03/09	17/03/09	17/03/09	17/03/09
Type of sample		Soil	Soil	Seil	Soil	Soil
Date extracted	-	20/03/2009	20/03/2009	20/03/2009	20/03/2003	20/03/2009
Date analysed		20/03/2009	20/03/2009	20/03/2009	20/03/2009	20/03/2008
TPH C10 - C14	mg/kg	<50	<50	<50	<50	<50
TPH C15 - C29	mg/kg	<100	<100	<100	<100	<100
TPH C29 - C36	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	84	62	85	82	85



Client Reference:

£22758K, Wahroonga

sTPH in Soil (C10-C36)		y- x- xx <u>+xx</u>		<u></u>		····
Our Reference:	UNITS	27443-42	27443-44	27443-45	27443-46	27443-48
Your Reference		BH17	BH18	BH18	BH19	BH20
Depth		0.1-0.2	0.1-0.3	0.4-0.6	0.0-0.1	0.02-0.2
Date Sampled		17/03/09	12/03/09	12/03/09	12/03/09	12/03/09
Type of sample		Soil	Şoil	Soil	Sol	Soil
Date extracted		20/03/2009	20/03/2009	20/03/2009	20/03/2009	20/03/2009
Date analysed	-	20/03/2009	20/03/2009	20/03/2009	20/03/2009	20/03/2009
TPH C10 - C1d	mg/kg	<50	<50	<50	<50	<50
TPH C15 - C28	rng/kg	<100	<100	<100	<100	<100
TPH C29 - C26	mg/kg	<100	<100	<100	<100	<100
Surrogale o-Terphenyl	%	83	84	82	84	82

sTPH in Soil (C10-C36)	į	
Our Reference:	UNITS	27443-50
Your Reference		BR21
Depth		0.2-0.4
Date Sampled		12/03/09
Type of sample		Soil
Date extracted	-	20/03/2009
Date analysed	-	20/03/2009
TPH C10 - C14	mg/kg	<50
TPH C15 - C28	mg/kg	<100
TPH C29 - C36	mg/kg	<100
Surrogate o-Terphenyl	%	B5

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PAHs in Soil						
Our Reference:	UNITS	27443-1	27443-2	27443-4	27443-6	27443-10
Your Reference		BH1	BH2	BH3	₽H4	8145
Depth		0.2-0.4	0.2-0.4	0.1-0,2	0.1-0.2	0.9-1.0
Date Sampled		17/03/09	17/03/09	16/03/09	16/03/09	13/03/09
Type of sample		Soil	Soil	Soit	Soil	Soil
Date extracted	-	20/03/2009	20/03/2009	20/03/2009	20/03/2009	20/03/2009
Date analysed	-	20/03/2009	20/03/2009	20/03/2009	20/03/2009	20/03/2009
Naphthalene	n₃g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<01
Acchaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0 i
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<d.1< td=""><td><0.1</td><td><0.1</td><td><0.1</td></d.1<>	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0 i
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	nig/kg	< 0.1	<01	<0.1	<0.1	<01
Chrysene	mg/kg	< 0.1	<0.1	<0.1	<0.1	<01
Benzo(b+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	0.06
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g.h.i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-di4	%	107	106	105	107	114



PAHs in Soit					,	
Our Reference:	UNITS	27443-12	27443-15	27443-17	27443-19	27443-22
Your Reference	j	BH6	BH7	BH8	8H9	BH10
Depth		0.5-0.7	0.4-0.7	0.05-0.3	0.8-1.0	0.2-0.5
Date Sampled		12/03/09	12/03/09	12/03/09	12/03/09	12/03/09
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/03/200 9	20/03/2009	20/03/2009	20/03/2009	20/03/2009
Date analysed	-	20/03/2009	20/03/2009	20/03/2009	20/03/2009	20/03/2009
Naphthálene	mg/kg	<0.1	<0.1	0.2	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	< 0.1	<0.1	<0.1	<0 i
Flyarene	mg/kg	<0.1	<0.1	<0.1	<0.1	<01
Phenanthrene	mg/kg	<0.1	<0.1	0.1	<0.1	C.2
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0. 1
Fluoranthene	mg/kg	<0.1	0.2	<0.1	<0.1	0.6
Pyrene	∮ mg/kg	<0.1	0.2	<0.1	<0.1	0.6
Benzo(a)anthracene	mg/kg	<0.1	0.1	<0.1	<0.1	0.4
Chryseno	mg/kg	<0.1	0.2	<0.1	<0.1	0.5
Benzo(b+k)fluoranthene	mg/kg	<0.2	0.3	<0.2	<0.2	0.5
Bonzo(a)pyrene	mg/kg	<0.05	0.1	<0.05	<0.05	0.3
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	0.1	<0.1	<0.1	0.2
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g.h,i)perylene	mg/kg	<0.1	0.1	<0.1	<0.1	0.1
Surrogate p-Terphenyl-di4	%	99	114	111	106	108



PAHs in Soil		T		1		
Our Reference:	UNITS	27443-26	27443-33	27443-35	27443-37	27443-41
Your Reference		BH11	BH14	BH14	Bl:114	BH16
Depth		0.2-0.3	0.4-0.5	2.5-2.8	4.5-4.95	0.3-0.5
Date Sampled		12/03/09	17/03/09	17/03/09	17/03/09	17/03/09
Type of sample		Soil	Soil	Soi!	Soil	Soil
Date extracted	-	20/03/2009	20/03/2009	20/03/2009	20/03/2009	20/03/2009
Date analysed	-	20/03/2009	20/03/2009	20/03/2009	20/03/2009	20/03/2009
Naphthalene	mg/kg	<0.1	<0.1	0.1	<0.1	<01
Acenaphthylene	mg/kg	<0.1	<0.1	0.2	<0.1	<0.1
Acenaphiñene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	nīg/kg	<0.1	<0.1	0.1	<0,1	<0.1
Phenanthrene	mg/kg	<0.1	1.0	1.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	0.2	0.3	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	2.1	2.0	<0.1	<0.1
Pyrene	mg/kg	<0.1	1.9	2.0	<0.1	<0.1
Benzo(a)anthracene	.mg/kg	<0.1	8.0	1.0	<0.1	<0.1
Chrysene	mg/kg	<0.1	0.9	1.0	<0.1	<0.1
8enzo(b+k)fluorantheπe	mg/kg	<0.2	1.5	1.5	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	1.0	1	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	0.7	0.6	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	8.0	0.5	<0.1	<0.1
Surrogate p-Terphenyl-di4	%	110	104	1D4	107	109



			_			
PAHs in Soil	İ					
Our Reference:	UNITS	27443-42	27443-44	27443-45	27443-46	27443-48
Your Reference	}	BH17	BH18	BH16	BH19	BH20
Depth		0.1-0.2	0.1-0.3	0.4-0.6	0.0-0.1	0.02-0.2
Date Sampled	į	17/03/09	12/03/09	12/03/09	12/03/09	12/03/09
Type of sample		Sail	Soil	Soil	Soil	Soil
Date extracted	-	20/03/2009	20/03/2009	20/03/2009	20/03/2009	20/03/2009
Date analysed	-	20/03/2009	20/03/2009	20/03/2009	20/03/2009	20/03/2009
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<6.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	Đ.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<02	<0.2
Benzo(a)pyrene	rng/kg	<0.05	<0.05	<0.05	0.07	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-dis	%	106	106	105	108	114

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PAHs in Soil				
Our Reference:	UNITS	27443-50	27443-56	27443-57
Your Reference		BH21	Dup1	Dup2
Depth		0.2-0.4	-	-
Date Sampled		12/03/09		
Type of sample		Soil	Soil	Soil
Date extracted	-	20/03/2009	20/03/2009	20/03/2009
Date analysed	-	20/03/2009	20/03/2009	20/03/2009
Naphthalene	mg/kg	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1
Fluorene	nig/kg	<0.1	<0.1	<0.1
Phenanthrene	nig/kg	<0.1	0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	0.7	0.3
Pyrene	mg/kg	0.1	0.7	0.3
Benzo(a)anthracese	mg/kg	<0.1	0.5	0.1
Chrysene	mg/kg	<0.1	0.5	0.2
Benzo(b+k)fluoranthene	mg/kg	<0.2	0.7	0.3
Benzo(a)pyrene	mg/kg	<0.05	0.4	0.2
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	0.2	0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	0.2	0.1
Surrogate p-Terphenyl-d14	%	101	111	112



Organochlorine Pesticides in soil						
Our Reference:	ยพิเวร	27443-1	27443-2	27443-4	27443-6	27443-10
Your Reference		BH1	BH2	BH3	Ð114	8H5
Depth		0.2-0.4	0.2-0.4	0.1-0.2	0.1-0.2	0.9-1.0
Date Sampled		17/03/09	17/03/09	16/03/09	16/03/09	13/03/09
Type of sample		Soil	Soil	Soil	Sail	Soil
Date extracted	-	20/03/2009	20/03/2009	20/03/2009	20/03/2009	20/03/2009
Date analysed	-	20/03/2009	20/03/2009	20/03/2009	20/03/2009	20/03/2009
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BH€	rng/kg	<0.1	<0.1	<0.1	<0,1	<0.1
gamma-BHC	rng/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	, <0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	nig/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	rng/kg	<0.1	<0.1	 <0.1	<0.1	<0.1
Endrin	rng/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	rng/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	 <0.1	l i <0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	s0 i
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0,1	<01
Surrogate TCLMX	%	67	74	79	80	73



Organochlorine Pesticides in soil]				ĺ
Our Reference:	UNITS	27443-12	27443-15	27443-17	27443-19	27443-22
Your Reference		BH6	BH7	BH8	B H9	BH10
Depth		0.5-0.7	0.4-0.7	0.05-0.3	0.8-1.0	0.2-0.5
Date Sampled Type of sample		12/03/09 Soil	12/03/09 Soil	12/03/09 Sail	12/03/09 Soil	12/03/09 Seil
Date extracted	•	20/03/2009	20/03/2009	20/03/2009	20/03/2009	20/03/2009
Date analysed	-	20/03/2009	20/03/2009	20/03/2009	20/03/2009	20/03/2009
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<01
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<01
1-leptach1or	mg/kg	<0.1	<0.1	< 0.1	<0.1	<01
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0 i
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0 i
gamma-Chlordane	rng/kg	<0.1	<0.1	< 0.1	<0.1	<0 1
atpha-chlordane	rng/kg	<0.1	<0.1	<0.1	<0.1	<01
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	i ₹ <0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0 i
Endosulfan II	rng/kg	<0.1	<0.1	} <0.1	<0.1	<0.1
pp-D O T	rng/kg	<0.1	<0.1	<0.1	<0.1	<0 i
Endrin Aldehyde	rng/kg	<0.1	<0.1	<0.1	<0.1	<01
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0 i
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	// %/	79	74	77	74	81



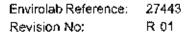
Organochlorine Pesticides in soil		; 1	İ			
Our Reference:	ŲNITS	27443-26	27443-33	27443-35	27443-37	27443-41
Your Reference		BH11	BH14	BH14	BH14	BH16
Depth		0.2-0.3	0.4-0.5	2.5-2.8	4.5-4.95	0.3-0.5
Date Sampled Type of sample		12/03/09 Soil	17/03/09 Soil	17/03/09 Soil	17/03/09 Soil	17/03/09 So:l
			,	<u></u>		
Date extracted	-	20/03/2009	20/03/2009	20/03/2009	20/03/2009	20/03/2009
Date analysed] -	20/03/2009	20/03/2009	20/03/2009	20/03/2009	20/03/2009
HĊB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
аірһа-ВНС	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	Š <0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	< 0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<01
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<01
pp-DDE	i mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<01
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kġ	<0.1	<q.1< td=""><td><d.1< td=""><td><0.1</td><td><0.1</td></d.1<></td></q.1<>	<d.1< td=""><td><0.1</td><td><0.1</td></d.1<>	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	74	73	81	75	78



Organochlorine Pesticides in soil			İ			
Our Reference:	UNETS	27443-42	27443-44	27443-45	27443-46	27443-48
Your Reference		BH17	BH18	B1418	BH19	BH20
Depth	UT1887711777	0.1-0.2	0.1-0.3	0.4-0.6	0.0-0.1	0.02-0.2
Date Sampled Type of sample		17/03/09 Soil	. 12/03/09 Sail	12/03/09 Soil	12/03/09 Soil	12/03/09 Soil
			-			
Date extracted	-	20/03/2009	20/03/2009	20/03/2609	20/03/2009	20/03/2009
Date analysed	-	20/03/2009	20/03/2009	20/03/2009	20/03/2009	20/03/2009
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
atpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<01
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<01
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<01
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<01
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<01
Heptachlor Epoxide	mg/k g	<0.1	<0.1	<0.1	<0.1	<01
gamma-Chtordane	mg/kg	<0.1	<0.1	<0.1	<0.1	01
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DD D	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Eridosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0,1	<0.1
Surrogate TCLMX	%	80	75	78	76	76



Organochlorine Pesticides in soil		
Our Reference:	UNITS	27443-50
Your Reference	~~~~~~~~~~	BH21
Depth		0.2-0.4
Date Sampled		12/03/09 Soil
Type of sample		
Date extracted	-	20/03/2009
Date analysed	-	20/03/2009
нсв	mg/kg	<0.1
alpha-BHC	mg/kg :	<0.1
gamma-BHC	mg/kg	<0.1
be(a-BHC	mg/kg	<0.1
Heptachlor	mg/kg	<0.1
delta-BHC	mg/kg	<0.1
Aldrin	m g /kg	<0.1
Heptachlor Epoxide	mg/kg	<0.1
garama-Chlordane	mg/kg	<0.1
alpha-chlordane	mg/kg	<0.1
Endosulfan I	mg/kg	<0.1
pp-DDE	mg/kg	<0.1
Dieldrin	mg/kg	<0.1
Endrin	mg/kg	<0.1
pp-DDD	mg/kg	<0.1
Endosuffan II	mg/kg	<0.1
pp-DDY	mg/kg	<0.1
Endrin Aldehyde	mg/kg	<0.1
Endosulfan Sulphate	mg/kg	<0.1
Methoxychlor	mg/kg	<0.1
Surrogate TCLMX	%	78





~	iont Notereno		n, manifoliga	-		
Organophosphorus Pesticides		į			V	
Our Reference:	UNITS	27443-1	27443-2	27443-4	27443-6	27443-10
Your Reference		BH1	BH2	внз	6H4	BH5
Depth		0.2-0.4	0.2-0.4	0,1-0.2	0.1-0.2	0.9-1.0
Date Sampled		17/03/09	17/03/09	16/03/09	16/03/09	13/03/09
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/03/2009	20/03/2009	20/03/2009	20/03/2009	20/03/2009
Date analysed	-	20/03/2009	20/03/2009	20/03/2009	20/03/2009	20/03/2009
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/k g	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	67	74	79	80	73
				1	w	4
Organophosphorus Pesticides						
Our Reference:	UNITS	27443-12	27443-15	27443-17	27443-19	27443-22
Your Reference		BH6	BH7	BH8	BH9	BH10
Depth Date Sampled		0.5-0.7 12/03/09	0.4-0.7 12/03/09	0.05-0.3 12/03/09	0.8-1.0	0.2-0.5 12/03/09
Type of sample		Sail	Soil	Soil	Soil	Soil
Date extracted		20/03/2009	20/03/2009	20/03/2009	•	
	_				20/03/2009	20/03/2009
Date analysed		20/03/2009	20/03/2009	20/03/2009	20/03/2009	20/03/2009
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphas	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	79	74	77	74	81



E22758K, Wahroonga

CI	ient Referenc	e: E22750	K, Wahroonga	1		
Organophosphorus Pesticides	T~ · ·					1
Our Reference:	UNITS	27443-26	27443-33	27443-35	27443-37	27443-41
Your Reference		BH11	BH14	BH14	8H14	BH16
Depth		0.2-0.3	0.4-0.5	2.5-2.8	4.5-4,95	0.3-0.5
Date Sampled		12/03/09	17/03/09	17/03/09	17/03/09	17/03/09
Type of sample	v <u></u>	Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/03/2009	20/03/2009	20/03/2009	20/03/2009	20/03/2009
Date analysed	-	20/03/2009	20/03/2009	20/03/2009	20/03/2009	20/03/2009
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0,1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<d.1< td=""><td><0.1</td><td><0.1</td><td><0.1</td></d.1<>	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<d.1< td=""><td><d.1< td=""><td><0.1</td><td><01</td></d.1<></td></d.1<>	<d.1< td=""><td><0.1</td><td><01</td></d.1<>	<0.1	<01
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	nig/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<01
Surrogate TCLMX	%	74	73	81	75	78
Organophosphorus Posticides						
Our Reference:	UNITS	27443-42	27443-44	27443-45	27443-46	27443-48
Your Reference	T	BH17	BH18	BH18	BH19	BH20
Depth		0.1-0.2	0.1-0.3	0.4-0.6	0.0-0.1	0.02-0.2
Date Sampled		17/03/09	12/03/09	12/03/09	12/03/09	12/03/09
Type of sample		Şoil	Soi!	Soil	Soil	Soil
Date extracted	-	20/03/2009	20/03/2009	20/03/2009	20/03/2009	20/03/2009
Date analysed	-	20/03/2009	20/03/2009	20/03/2009	20/03/2009	20/03/2009
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0,1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpynphos-methyl	mg/kg	< 0.1	<0.1	<0.1	<0.1	<0 1
Ronnel	mg/kg	< 0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	< 0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	< 0.1	<0.1	<0.1	<0.1	<01
Surrogate TCLMX	%	80	75	78	76	76

Envirolab Reference: 27443 Revision No:

R 01



Organophosphorus Pesticides		
Our Reference:	UNITS	27443-50
Your Reference		BH21
Depth		0.2-0.4
Date Sampled		12/03/09
Type of sample		Soil
Date extracted	-	20/03/2009
Date analysed	-	20/03/2009
Diazinon	rng/kg	<0.1
Dimethoale	mg/kg	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1
Ronnel	mg/kg	<0.1
Chlorpyriphos	mg/kg	<0.1
Fenitrothion	mg/kg	<0.1
Bromophos-ethyl	mg/kg	<0.1
Ethion	mg/kg	<0.1
Surrogate TCLMX	%	78



PCBs in Soil UNITS 27443-1 27443-2 27443-4 27443-6 2744 Your Reference BH1 BH2 BH3 BH4 B Depth 0.2-0.4 0.2-0.4 0.1-0.2 0.1-0.2 6.9 Date Sampled 17703/09 17/03/09 16/03/09 16/03/09 18/03/09 Type of sample - 20/03/2009
Your Reference BH1 BH2 BH3 BH4 B Depth
Depth
Date Sampled 17/03/09 16/03/09 16/03/09 13/05 13/0
Type of sample Soif Soil
Date extracted
Date analysed
Arochlor 1016 mg/kg < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1
Arochlor 1232 mg/kg < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1
Arochlor 1242 mg/kg < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1
Arochlor 1248 mg/kg < 0.1 < 0.3 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.
Arochlor 1264 mg/kg < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1
Arothlor 1260 mg/kg < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1
PCBs in Soif UNITS 27443-12 27443-15 27443-17 27443-19
PCBs in Soif UNITS 27443-12 27443-15 27443-17 27443-19
Our Reference: UNITS 27443-12 27443-15 27443-17 27443-19 2744 Your Reference BH6 BH7 BH8 BH9 BI Depth 0.5-0.7 0.4-0.7 0.05-0.3 0.8-1.0 0.2 Date Sampled 12/03/09 12/03/09 12/03/09 12/03/09 12/03/09 12/03/09 12/03/09 12/03/09 12/03/2009 Soil Soil </td
Our Reference: UNITS 27443-12 27443-15 27443-17 27443-19 2744 Your Reference BH6 BH7 BH8 BH9 BI Depth 0.5-0.7 0.4-0.7 0.05-0.3 0.8-1.0 0.2 Date Sampled 12/03/09 12/03/09 12/03/09 12/03/09 12/03/09 12/03/09 12/03/09 12/03/09 12/03/2009 Soil Soil </td
Your Reference BH6 BH7 BH8 BH9 BI Depth 0.5-0.7 0.4-0.7 0.05-0.3 0.8-1.0 0.2 Date Sampled 12/03/09 12/03/09 12/03/09 12/03/09 12/03/09 12/03/09 12/03/09 12/03/09 12/03/09 12/03/09 12/03/09 12/03/09 12/03/09 12/03/2009
Depth
Date Sampled 12/03/09
Date extracted - 20/03/2009 </td
Date analysed - 20/03/2009 20/03/2009 20/03/2009 20/03/2009 20/03/2009
Arochlor 1016 mg/kg < 0.1 < 0.1 < 0.1 < 0.1 < 0.1
Arochlor 1232 mg/kg < 0.1 < 0.1 < 0.1 < 0.1 < 0.1
Arochlor 1242 mg/kg <0.1 <0.1 <0.1 <0.1 <0.1
Arochlor 1248 mg/kg < 0.1 < 0.1 < 0.1 < 0.1 < 0.1
Arochior 1254 mg/kg < 0.1 < 0.1 < 0.1 < 0.1 < 0.1
Arochlor 1260 mg/kg < 0.1 < 0.1 < 0.1 < 0.1 < 6
Surrogate TCLMX % 79 74 77 74 8
PCBs in Soil
Our Reference: UNITS 27443-26 27443-33 27443-35 27443-37 274
Your Reference BH11 BH14 BH14 BH14 BH14 BH
Depth 0.2-0.3 0.4-0.5 2.5-2.8 4.5-4.95 0.3
Date Sampled 12/03/09 17/03/09
Date extracted - 20/03/2009 20/03/2009 20/03/2009 20/03/2009 20/03/2009 20/03/2009 20/03/2009 20/03/2009
Date analysed - 20/03/2009 20/03/2009 20/03/2009 20/03/2009 20/03/2009
Arochlor 1016 mg/kg <0.1 <0.1 <0.1 <0.1 <0.1
Arochlor 1232 mg/kg <0.1 <0.1 € <0.1 <0.1 €
Arochtor 1242 mg/kg <0.1 <0.1 <0.1 <0.1 <0.1
Arochlor 1248 mg/kg < 0.1 < 0.1 < 0.1 < 0.1 < 0.1
Arochior 1254 mg/kg <0.1 <0.1 <0.1 <0.1
Arochlor 1260 mg/kg <0.1 <0.1 <0.1 <0.1
Surrogate TCLMX % 74 73 81 75



PCBs in Soil	T			ļ <u> </u>		<u> </u>
Our Reference:	UNITS	27443-42	27443-44	27443-45	27443-46	27443-48
Your Reference	[BH17	BH18	BH18	BH19	BH20
Depth		0.1-0.2	0.1-0.3	0.4-0.6	0.0-0.1	0.02-0.2
Date Sampled	ě.	17/03/09	12/03/09	12/03/09	12/03/09	12/03/09
Type of sample		Soil	Sait	Soil	Soil	Sail
Date extracted	-	20/03/2009	20/03/2009	20/03/2009	20/03/2009	20/03/2009
Date analysed	-	20/03/2009	20/03/2009	20/03/2009	20/03/2009	20/03/2009
Arachlor 1016	mg/kg	<0.1	<d.1< td=""><td><0.1</td><td><0.1</td><td><01</td></d.1<>	<0.1	<0.1	<01
Arochlor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<01
Arachlor 1242	rng/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	ring/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<01
Arochlor 1260	mg/kg	<d.1< td=""><td><d.1< td=""><td><0.1</td><td><0.1</td><td><01</td></d.1<></td></d.1<>	<d.1< td=""><td><0.1</td><td><0.1</td><td><01</td></d.1<>	<0.1	<0.1	<01
Surrogate TCLMX	%	80	75	80	76	76

PCBs in Soil		
Our Reference:	UNITS	27443-50
Your Reference		BH21
Depth		0.2-0.4
Date Sampled		12/03/09
Type of sample		Soil
Date extracted	-	20/03/2009
Date analysed	-	20/03/2009
Arochlor 1016	mg/kg	<0.1
Arochior 1232	mg/kg	<0.1
Arochtor 1242	mg/kg	<0.1
Arochlor 1248	mg/kg	<0.1
Arochtor 1254	mg/kg	<0.1
Arochiot 1260	mg/kg	<0.1
Surrogate TCLMX	%	78



Your Reference Depth BH1 BH2 BH3 BH4 BH5 Depth 0.2-0.4 0.2-0.4 0.1-0.2 0.1-0.2 0.9-1.2 0.0-1.2	Acid Extractable metals in soil					.1]
Depth	Our Reference:	UNITS	27443-1	27443-2	27443-4	27443-6	: : 27443-1(
Date Sampled Type of sample	Your Reference		BI41	BH2	8H3	BH4	BH5
Type of sample Soil 20/03/2009 <th< td=""><td>•</td><td></td><td>0.2-0.4</td><td>0.2-0.4</td><td>0.1-0.2</td><td>0.3-0.2</td><td>0.9-1.0</td></th<>	•		0.2-0.4	0.2-0.4	0.1-0.2	0.3-0.2	0.9-1.0
Date digested	•			1			13/03/09
Date digested			Şoil	Soil	Soil	Soil	Soil
Arsenic mg/kg <4 26 5 4 6 6 Cadmium mg/kg <0.5 <0.5 <0.5 <0.5 <0.6 <0.6 <0.6 <0.6 <0.6 <0.6 <0.6 <0.6		-	20/03/2009	20/03/2009	20/03/2009	20/03/2069	20/03/200
Cadmium mg/kg <0.5 <0.5 <0.5 <0.5 <0.6 <0.6 Chromium mg/kg 9 9 21 24 19 Copper mg/kg 2 11 12 7 5 Lead mg/kg 7 26 29 15 14 Mercury mg/kg 0.1 0.1 0.2 <0.1	Date analysed	-	23/03/2009	23/03/2009	23/03/2009	23/03/2009	23/03/200
Chromium mg/kg 9 9 21 24 19 Copper mg/kg 2 11 12 7 5 Lead mg/kg 7 26 29 15 14 Mercury mg/kg 0.1 0.1 0.2 <0.1	Arsenic	mg/kg	<4	26	5	4	6
Copper mg/kg 2 11 12 7 5 Lead mg/kg 7 25 29 15 14 Mercury mg/kg 0.1 0.1 0.2 <0.1	Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Lead	Chromium	mg/kg	9	9	21	24	19
Mercury rng/kg 0.1 0.1 0.2 <0,1 0.2 Nickel rng/kg 1 2 15 16 5 Zinc mg/kg 7 68 45 19 12 Acid Extractable metals in soil Our Reference: UNITS 27443-12 27443-15 27443-17 27443-19 27443-2 Your Reference: BH6 BH7 BH8 BH9 BH10 Depth 0,5-0.7 0,4-0.7 0,05-0.3 0,8-1.0 0,2-0.5 Date Sampled 12/03/09 20/03/2009 20/03/2009 20/03/2009 20/03/2009 20/03/2009 20/03/2009 23/03/2009 23/03/2009 23/03/2009 23/03/2009 23/03/2009 23/	Copper	mg/kg	2	11	12	7	5
Nickel mg/kg 1 2 15 16 5 5 2 15 16 5 5 16 5 5 2 2 2 2 2 2 2 2	Lead	mg/kg	7	25	29	15	14
Zinc mg/kg 7 68 45 19 12 Acid Extractable metals in soil Our Reference: Your Reference: BH6 Depth Depth Depth Depth Depth Date Sampled Type of sample Soil Soil Soil Soil Soil Soil Soil Soil	Mercury	mg/kg	0.1	0.1	0.2	<0.1	0.2
Acid Extractable metals in soil UNITS 27443-12 27443-15 27443-17 27443-19 27443-19 27443-2 27443-15 27443-17 27443-19 27443-19 27443-2 27443-15 27443-17 27443-19 27443-19 27443-2 27443-17 27443-19 27443-19 27443-2 27443-17 27443-19 27443-19 27443-19 27443-17 27443-19 2816 2816 2816 2816 2816 2816 2816 2816 2816 2816 2916 2916 2916 2916 2916 2916 2916 2916 2916 2916 2916 2916 2916 2916 2916 2916 2916 2916	Nickel	rang/kg	1	2	15	16	5
Acid Extractable metals in soil UNITS 27443-12 27443-15 27443-17 27443-19 27443-2 27443-19 27443-19 27443-2 27443-17 27443-19 27443-2 27443-19 27443-2 27443-19 27443-2 27443-19 27443-19 27443-2 27443-19 27443-19 27443-2 27443-19 2743-20 28-10 28-10 28-10 28-10 28-10 28-10 28-10 28-10 28-10 28-10 28-10 28-10	Zinc	mg/kg	7	68	45	19	12
Our Reference: UNITS 27443-12 27443-15 27443-17 27443-19 27443-2 Your Reference: BH6 BH7 BH8 BH9 BH10 Depth 0.5-0.7 0.4-0.7 0.05-0.3 0.8-1.0 0.2-0.5 Date Sampled: 12/03/09 12/03/09 12/03/09 12/03/09 12/03/09 12/03/09 12/03/09 12/03/09 12/03/09 20/03/2009 <			-la-saux- van s s		L-,,	1	<u> </u>
Your Reference BH6 BH7 BH8 BH9 BH10 Depth 0.5-0.7 0.4-0.7 0.06-0.3 0.8-1.0 0.2-0.6 Date Sampled 12/03/09 12/03/09 12/03/09 12/03/09 12/03/09 12/03/09 12/03/09 12/03/09 12/03/09 12/03/2009 20/03/	Acid Extractable metals in soil]	ł
Depth Date Sampled		UNITS			27443-17	27443-19	27443-27
Date Sampled Type of sample 12/03/09 Soil 20/03/2009 Soil 2				BH7	BH8	1	BH10
Type of sample Soil	' '				1	5	0.2-0.5
Date digested - 20/03/2009 <td>•</td> <td></td> <td></td> <td>1</td> <td></td> <td>1</td> <td></td>	•			1		1	
Date analysed - 23/03/2009 <td>1000</td> <td></td> <td></td> <td><u> </u></td> <td>SOII</td> <td>Soll</td> <td>Soil</td>	1000			<u> </u>	SOII	Soll	Soil
Arsenic mg/kg 14 11 <4 <4 8 Cadmium ng/kg <0.5	Date digested	-	20/03/2009	20/03/2009	20/03/2009	20/03/2009	20/03/200
Cadmium nrg/kg <0.5 <0.5 0.6 <0.5 <0.5 Chromium mg/kg 14 18 120 2 21 Capper mg/kg 18 18 45 1 29 Lead mg/kg 26 29 8 3 29 Mercury mg/kg <0.1	Date analysed	-	23/03/2009	23/03/2009	23/03/2009	23/03/2009	23/03/200
Chromium mg/kg 14 18 120 2 21 Capper mg/kg 18 18 45 1 29 Lead mg/kg 26 29 8 3 29 Mercury mg/kg <0.1 0.2 <0.1 <0.1 <0.1	Arsenic	mg/kg	14	11	<4	<4	8
Copper mg/kg 18 18 45 1 29 Lead mg/kg 26 29 8 3 29 Mercury mg/kg <0.1	Cadmium	nig/kg	<0.5	<0.5	0.6	<0.5	<0.5
Lead mg/kg 26 29 8 3 29 Mercury mg/kg <0.1	Chromium	mg/kg	14	18	120	2	21
Mercury mg/kg <0.1 0.2 <0.1 <0.1 <0.1	Capper	mg/kg	18	18	45	1	29
	Lead	mg/kg	26	29	8	3	29
	Mercury	mg/kg	<0.1	0.2	<0.1	<0.1	<0.1
	Nickel	mg/kg	5	6	130	<1	16

33

mg/kg

32

Envirolab Reference: Revision No:

Zinc

27443 R 01



43

2

62

Cii	ent Reference	e: £227581	K, Wahroonga	3		
Acid Extractable metals in soil	Τ	T]	i		
Our Reference:	บพิเศร	27443-26	27443-33	27443-35	27443-37	27443-41
Your Reference		BH11	BH14	BH14	81114	BH16
Depth		0.2-0.3	0.4-0.5	2.5-2.8	4.5-4.95	0.3-0.5
Date Sampled		12/03/09	17/03/09	17/03/09	17/03/09	17/03/09
Type of sample		Soil	Soil	Şoi!	Soi!	Soil
Date digested	-	20/03/2009	20/03/2009	20/03/2009	20/03/2009	20/03/2009
Date analysed	-	23/03/2009	23/03/2009	23/03/2009	23/03/2009	23/03/2009
Arsenic	mg/kg	4	<4	8	7	7
Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	19	72	14	21	26
Copper	mg/kg	38	25	31	14	15
Lead	mg/kg	21	16	36	26	21
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	9	66	10	2	5
Zinc	mg/kg	29	47	42	3	14
1000000 00 000000000000000000000000000		1:	ı		I	
Acid Extractable metals in soil						
Our Reference:	UNITS	27443-42 BH17	27443-44	27443-45	27443-46	27443-48
Your Reference Depth		0.1-0.2	BH18 0.1-0.3	BH18 0.4-0.6	8H19 0.0-0.1	8H20 0 02-0.2
Date Sampled		17/03/09	12/03/09	12/03/09	12/03/09	12/03/09
Type of sample		Soil	Sail	Soil	Soil	Soil
Date digested	-	20/03/2009	20/03/2009	20/03/2009	20/03/2009	20/03/2009
Date analysed	_	23/03/2009	23/03/2009	23/03/2009	23/03/2009	23/03/2009
Arsenic	mg/kg	6	7	9	9	6
Cadmium	mg/kg	<0.5	<0.5	<0.5	0.5	<0.5
Chromium	mg/kg	17	22	20	23	12
Copper	mg/kg	9	17	3	34	15
Lead	mg/kg	19	25	14	250	20
Mercury	mg/kg	<0.1	<0.1	<0.1	0.1	<0.1
Nickel	rng/kg	3	9	<1	8	3
Zinc	mg/kg	9	12	3	160	15
<u> </u>	, <u> </u>		1	<u> </u>		I .



Acid Extractable metals in soil				
Our Reference:	UNITS	27443-50	27443-56	27443-57
Your Reference		BH21	Dup1	Oup2
Depth		0.2-0.4	-	-
Date Sampled		12/03/09		-
Type of sample		Soil	Sail	Sail
Date digested	-	20/03/2009	20/03/2009	20/03/2009
Date analysed	-	23/03/2009	23/03/2009	23/03/2009
Arsenic	mg/kg	<4	9	7
Cadmium	ang/kg	<0.5	<0.5	<0.5
Chromium	nig/kg	9	26	19
Copper	mg/kg	9	30	21
Lead	mg/kg	15	30	24
Mercury	mg/kg	<0.1	<0.1	<0.1
Nickel	mg/kg	5	21	13
Zinc	mg/kg	17	44	40



Your Reference BH1 BH2 BH3 BH4 Depth 0.2-0.4 0.2-0.4 0.1-0.2	2443-10 BH5).9-1 0 3/03/09 Soil 03/2009 10 2443-22 BH10
Your Reference BH1 BH2 BH3 BH4 Depth 0.2-0.4 0.2-0.4 0.1-0.2	BH5).9-1 0 3/03/09 Soil 03/2009 10 2443-22 BH10
Depth Date Sampled Date Sampled Type of sample 0.2-0.4 0.2-0.4 0.1-0.2 </td <td>0.9-1 0 3/03/09 Soil 03/2009 03/2009 10</td>	0.9-1 0 3/03/09 Soil 03/2009 03/2009 10
Date Sampled 17/03/09 16/03	3/03/09 Soil 03/2009 03/2009 10 4443-22 BH10
Type of sample	Soil 03/2009 03/2009 10 '443-22 BH10
Date prepared	03/2009 03/2009 10 '443-22 BH10
Date analysed - 20/03/2009 <td>03/2009 10 '443-22 BH10</td>	03/2009 10 '443-22 BH10
Moisture % 13 9.1 15 13 Moisture Our Reference: UNITS 27443-12 27443-15 27443-17 27443-19 274	10 '443-22 BH10
Moisture Our Reference: VNITS 27443-12 27443-15 27443-17 27443-19 27 Your Reference BH6 BH7 BH8 BH9 Depth 0.5-0.7 0.4-0.7 0.05-0.3 0.8-1.0 0 Date Sampled 12/03/09 12/03/09 12/03/09 12/03/09 1	'443-22 BH10
Our Reference: UNITS 27443-12 27443-15 27443-17 27443-19 27 Your Reference	BH10
Our Reference: UNITS 27443-12 27443-15 27443-17 27443-19 27443-19 Your Reference BH6 BH7 BH8 BH9 Depth 0.5-0.7 0.4-0.7 0.05-0.3 0.8-1.0 0 Date Sampled 12/03/09 12/03/09 12/03/09 12/03/09 12/03/09 12/03/09	BH10
Your Reference	BH10
Depth	
Date Sampled 12/03/09 12/03/09 12/03/09 1	
	.2-0.5
Type of sample Soil Soil Soil Soil	\$/03/09
	Soil
Date prepared - 20/03/2009 20/03/2009 20/03/2009 20/03/2009 20	03/2009
Date analysed - 20/03/2009 20/03/2009 20/03/2009 20/03/2009 20	03/2009
Maisture % 13 14 5.7 0.70	9.0
*	
Moisture	
Our Reference: UNITS 27443-26 27443-33 27443-35 27443-37 21	443-41
Your Reference BH11 BH14 BH14 BH14	BH16
Depth 0.2-0.3 0.4-0.5 2.5-2.8 4.5-4.95 (3-0.5
	7/03/09
Type of sample Soil Soil Soil	Soil
Date prepared - 20/03/2009 20/03/2009 20/03/2009 20/03/2009 20/	03/2009
Date analysed - 20/03/2009 20/03/2009 20/03/2009 20/03/2009 20	03/2009
Maisture	21
Moisture	
Our Reference: UNITS 27443-42 27443-44 27443-45 27443-46 21	443-48
Out Reference.	
Your Reference CM17 BH18 BH18 BH19	
Your Reference 8H17 BH18 BH18 BH19	BH20 02-0.2
Your Reference BH17 BH18 BH18 BH19 Depth 0.1-0.2 0.1-0.3 0.4-0.6 0.0-0.1 0.0-0.1	BH20
Your Reference BH17 BH18 BH18 BH19 Depth 0.1-0.2 0.1-0.3 0.4-0.6 0.0-0.1 0.0-0.1	BH20 02-0.2
Your Reference	BH20 02-0.2 2/03/ 09 Soil
Your Reference BH17 BH18 BH18 BH19 Depth 0.1-0.2 0.1-0.3 0.4-0.6 0.0-0.1 0 Date Sampled 17/03/09 12/03/09 12/03/09 12/03/09 1 Type of sample Soil Soil Soil Soil Soil Date prepared - 20/03/2009 20/03/2009 20/03/2009 20/03/2009 20/03/2009 20/03/2009	BH20 02-0.2 2/03/09 Soil 03/2009
Your Reference BH17 BH18 BH18 BH19 Depth 0.1-0.2 0.1-0.3 0.4-0.6 0.0-0.1 0 Date Sampled 17/03/09 12/03/09 12/03/09 12/03/09 1 Type of sample Soil Soil Soil Soil Date prepared - 20/03/2009	BH20 02-0.2 2/03/09 Soil 03/2009 03/2009
Your Reference	BH20 02-0.2 2/03/09 Soil 03/2009
Your Reference BH17 BH18 BH18 BH19 Depth 0.1-0.2 0.1-0.3 0.4-0.6 0.0-0.1 0 Date Sampled 17/03/09 12/03/09 12/03/09 12/03/09 1 Type of sample Soil Soil Soil Soil Soil Date prepared - 20/03/2009	BH20 02-0.2 2/03/09 Soil 03/2009 03/2009
Your Reference BH17 BH18 BH18 BH19 Depth 0.1-0.2 0.1-0.3 0.4-0.6 0.0-0.1 0 Date Sampled 17/03/09 12/03/09 12/03/09 12/03/09 1 Type of sample Soil Soil Soil Soil Soil Date prepared - 20/03/2009	BH20 02-0.2 2/03/09 Soil 03/2009 03/2009
Your Reference BH17 BH18 BH18 BH19 Depth 0.1-0.2 0.1-0.3 0.4-0.6 0.0-0.1 0 Date Sampled 17/03/09 12/03/09 12/03/09 12/03/09 1 Type of sample Soil Soil Soil Soil Soil Date prepared - 20/03/2009	BH20 02-0.2 2/03/09 Soil 03/2009 03/2009
Your Reference BH17 BH18 BH18 BH19 Depth 0.1-0.2 0.1-0.3 0.4-0.6 0.0-0.1 0 Date Sampled 17/03/09 12/03/09 12/03/09 12/03/09 12/03/09 12/03/09 12/03/09 12/03/09 12/03/09 12/03/09 12/03/2009 12/03/2009 12/03/2009 12/03/2009 12/03/2009 12/03/2009 12/03/2009 12/03/2009 12/03/2009 12/03/2009 12/03/2009 12/03/2009 12/03/2009 20/03	BH20 02-0.2 2/03/09 Soil 03/2009 03/2009
Your Reference BH17 BH18 BH19 0.003/2009 20/03	BH20 02-0.2 2/03/09 Soil 03/2009 03/2009
Your Reference BH17 BH18 BH20 20/03/2009 20/03	BH20 02-0.2 2/03/09 Soil 03/2009 03/2009
Your Reference BH17 BH18 BH26 0.0-0.1 0 0.0-0.01 0 0.0-0.01 0 0 0.0-0.01 0 <	BH20 02-0.2 2/03/09 Soil 03/2009 03/2009
Your Reference BH17 BH18 BH21 DISTORY SOID SOID <td>BH20 02-0.2 2/03/09 Soil 03/2009 03/2009</td>	BH20 02-0.2 2/03/09 Soil 03/2009 03/2009
Your Reference BH17 BH18 BH26 0.0-0.1 0 0.0-0.0 1 0 0.0-0.0 20/03/2009 12/03/2009 20/03/2009 <th< td=""><td>BH20 02-0.2 2/03/09 Soil 03/2009 03/2009</td></th<>	BH20 02-0.2 2/03/09 Soil 03/2009 03/2009



Asbestos ID - soils	·	Υ	ĭ	[ſ
Our Reference:	UNITS	27443-1	27443-2	27443-4	27443-6	27443-10
Your Reference		BH1	BH2	BH3	8H4	BH5
Depth Depth	1	0.2-0.4	0.2-0.4	0.1-0.2	0.1-0.2	0 9-1.0
Deptin Date Sampled		17/03/09	17/03/09	16/03/09	16/03/09	13/03/09
Type of sample		Soil	Soil	Soil	Saii	Soil
Date analysed	-	24/03/2009	24/03/2009	24/03/2009	24/03/2009	24/03/2009
Sample Description	-	40g soil	40g soil	40g soil	40g şqil	40g sail
Asbestos ID in soil	-	No asbestos	No asbestos	No asbestos	No asbestos	No asbesto
		found at	found at	found at	found at	found at
		reporting limit	reporting limit	reporting limit of 0.1g/kg	reporting limit of 0.1g/kg	reporting lim
		of 0.1g/kg	of 0.1g/kg			of 0.1g/kg
Trace Analysis	-	Respirable	Respirable	Respirable	Respirable	Respirable
		fibres not	fibres not	fibres not	fibres not	fibres not
		detected	detected	detected	detected	detected
Asbestos ID - soils		T	, ,			<u> </u>
Our Reference:	UNITS	27443-12	27443-15	27443-17	27443-19	27443-22
Your Reference	************	BH6	BH7	8H3	BH9	BH10
Depth		0.5-0.7	0.4-0.7	0.05-0.3	0.8-1.0	0.2-0.5
Date Sampled		12/03/09	12/03/09	12/03/09	12/03/09	12/03/09
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	24/03/2009	24/03/2009	24/03/2009	24/03/2009	24/03/200
Sample Description		40g sail	40g soil	40g soil	40g soit	40g soil
Asbestos ID in soil		No asbestos	No asbestos	No asbestos	No asbestos	No asbesto
		(ound at	found at	found at	found at	found at
		reporting limit	reporting limit	reparting limit	reporting limit	reporting lin
		of 0.1g/kg	of 0.1g/kg	of 0.1g/kg	of 0.1g/kg	of 0.1g/kç
Trace Analysis	-	Respirable	Respirable	Respirable	Respirable	Respirable
	}	@bres not	fibres not	fibres not	j fibres not	fibres no
	İ	detected	detected	detected	detected	detected
Asbestos ID - soils	1	1	1	I	T	i
Our Reference:	UNITS	27462 76	27442 22	27443-35	27442 27	27442 41
	1 UNITO	27443-26	27443-33		27443-37	27443-41 BH16
Your Reference		BH11	BH14	BH14	BH14	
Depth		0.2-0.3	0.4-0.5	2.5-2.8	4.5-4.95	0.3-0.5
Date Sampled		12/03/09	17/03/09	17/03/09	17/03/09	17/03/09
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	24/03/2009	24/03/2009	24/03/2009	24/03/2009	\$ 24/03/200 1
Sample Description	-	40g soil	40g soil	40g soil	40g soit	40g soil
Asbestos ID in soil	-	No asbestos	No asbestos	No asbestos	No asbesios	No asbesto
		found at	found at	found at	found at	found at
		reporting limit	reporting limit	reporting limit	reporting limit	reporting lin
		of 0.1g/kg	of 0.1g/kg	of 0.1g/kg	of 0.1g/kg	of 0.1g/kg
Trace Analysis	-	Respirable	Respirable	Respirable	Respirable	Respirable
		fibres not	fibres not	fibres not	fibres not	fibres not
	I	detected	detected	detected	detected	detected



Asbestos ID - soils					, , , ,	[
Our Reference:	UNITS	27443-42	27443-44	27443-45	27443-46	27443-48
Your Reference		BH17	BH18	B#18	BH19	BH20
Depth		0.1-0.2	0.1-0.3	0.4-0.6	0.0-0.1	0.02-0.2
Date Sampled		17/03/09	12/03/09	12/03/09	12/03/09	12/03/09
Type of sample		Soil	Soif	Soil	Soil	Soil
Date analysed	-	24/03/2009	24/03/2009	24/03/2009	24/03/2009	24/03/2009
Sample Description	-	40g soil	40g soil	40g soil	40g soil	40g soil
Asbestos (D in soil	-	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting fimit of 0.1g/kg
Trace Analysis	-	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected

Asbestos ID - soils		
Our Reference:	ยทธร	27443-50
Your Reference		81121
Depth		0.2-0.4
Date Sampled Type of sample		12/03/09 Soil
Date analysed	-	24/03/2009
Sample Description	-	40g soil
Asbestos ID in soil	-	No asbestos found at reporting limit of 0.1g/kg
Trace Analysis	-	Respirable fibres not detected



BTEX in Water			
Our Reference:	UNITS	27443-54	27443-55
Your Reference		Rinsate 1	Rinsate 2
Depth		-	-
Date Sampled		12/03/09	13/03/09
Type of sample		Water	Water
Date extracted	-	19/03/2009	19/03/2009
Date analysed	-	19/03/2009	19/03/2009
Benzene	μg/L	<1.0	<1.D
Taluene	μg/L	<1.0	<1.0
Ethylbenzene	μg/L	<1.0	<1.0
m+p-xylene	μg/L	<2.0	<2.0
o-xylene	μg/L	<1.0	<1.0
Surrogate Dibromofluoromethane	%	93	88
Surrogate toluene-d8	%	94	101
Sarrogate 4-BFB	%	80	83



Method ID	Methodology Summary
GC.16	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS.
GC.3	Soil samples are extracted with Dichloromethane/Acetone, and waters with Dichloromethane and analysed by GC-FID.
GC.12 subset	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.
GC-5	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
GC.8	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
GC-6	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD
Metals.20 ICP-AES	Determination of various metals by ICP-AES.
Metals,21 CV-AAS	Determination of Mercury by Cold Vapour AAS.
LAB.8	Moisture content determined by heating at 195 deg C for a minimum of 4 hours.
A\$4964-2004	Qualitative identification of asbestos type fibres in bulk using Polarised Light Microscopy and Dispersion Staining Techniques.



QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Ouplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
vTPH & BTEX in Soil						Base II Duplicate II %RPD		i
Date extracted	,			20/03/2 009	27443-1	20/03/2009 20/03/2009	LCS-1	20/03/2
Date analysed	-			20/03/2 009	27443-1	20/03/2009 20/03/2009	LCS-1	20/03/2
vTPH C6 - C9	mg/kg	25	GC.16	<25	27443-1	<25 <25	LCS-1	102%
Benzene	mg/kg	0.5	GC.16	<0.5	27443-1	<0.5 <0.5	LCS-1	103%
Toluene	nig/kg	0.5	GC.16	<0.5	27443-1	<0.5 <0.5	LCS-1	105%
Ethylbenzene	mg/kg	1	GÇ.16	<1.0	27443-1	<1.0 <1.0	1CS-1	103%
m+p-xylene	mg/kg	2	GC.16	<2.0	27443-1	<2.0 <2.0	LCS-1	99%
o-Xylene	mg/kg	1	GC.16	<1.0	27443-1	<1.0 <1.0	LCS-1	1129
Surrogale asa-Trifluorololuene	%		GC.16	91	27443-1	86 85 RPO: 1	LCS-1	89%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike %
sTPN in Soil (C10-C36)]				Base II Duplicate II %RPD		Recovery
Oale extracted	-			20/03/2	27443-1	20/03/2009 20/03/2009	LCS-1	20/03/20
Date analysed	-			20/03/2	27443-1	20/03/2009 20/03/2009	LCS-1	20/03/20
TPH C10 - C14	mg/kg	50	GC.3	<50	27443-1	<50 <50	LCS-1	103%
TPH C15 - C28	mg/kg	100	GC.3	<100	27443-1	<f00 <100<="" td="" =""><td>LCS-1</td><td>92%</td></f00>	LCS-1	92%
TPH C20 - C36	mg/kg	100	GC.3	<100	27443-1	<100 <100	LCS-1	93%
Surrogate o-Terphenyl	%		GC.3	85	27443-1	88 84 RPD: 5	LCS-1	83%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike %
PAHs in Soil						Base II Duplicate II %RPD		Recovery
Date extracted	+ .		+	20/03/2	27443-1	20/03/2009 20/03/2009	LÇŞ-1	20/03/20
Date emiliation				009]	201709200311 2490372003	200-1	20103121
Date analysed	-			20/03/2 009	27443-1	20/03/2009 [20/03/2009	LCS-1	20/03/20
Naphthalene	mg/kg	0.1	GC.12 subset	<0.1	27443-1	<0.1 <0.1	LÇ\$-1	105%
Acenaphthylene	mg/kg	0.1	GC.12 subset	<0.1	27443-1	<0.1 <0.1	(NR)	INR)
Acenaphthene	mg/kg	0.1	GC.12 subset	<0.1	27443-1	<0.1 <0.1	(NR)	[NR]
Fluorene	mg/kg	0.1	GC.12 subset	<0.1	27443-1	<0.1 <0.1	LCS-1	99%
Phenanthrene	mg/kg	0.1	GC.12 subset	<0.1	27443-1	<0.1 <0.1	LCS-1	103%
Anthracene	mg/kg	0.1	GC.12 subset	<0.1	27443-1	<0.1 <0.1	[NR)	[NR]
Fluoranthene	mg/kg	0.1	GC.12 subset	<0.1	27443-1	<0.1 ¶ <0.1	LCS-1	99%
Pyrene	mg/kg	0.1	GC.12 subset	<0.1	27 44 3-1	<0.1 gl <0.1	LCS-1	105%

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QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Soil						Base II Dupticate II %RPD		
Benzo(a)ambracene	mg/kg	0.1	GC.12 subset	<0.1	27443-1	<0.1 <0.1	(NR)	(NR)
Chrysene	mg/kg	0.1	GC.12 subset	<0.1	27443-1	<0.1 <0.1	LCS-1	108%
Benzo(b+k)fluoranthene	mg/kg	0.2	GC.12 subset	<0.2	27443-1	<0.2 <0.2	(NR)	[NR]
Benzo(a)pyrene	mg/kg	0.05	GC.12 subset	<0.05	27443-1	<0.05 <0.05	LCS-1	109%
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	GC.12 subset	<0.1	27443-1	<0.1 <0.1	(NR)	[NR]
Dibenzo(a,h)anthracene	mg/kg	0.1	GC.12 subset	<0.1	27443-1	<0.1 <0.1	(NR)	[NR]
Benzo(g,h,i)perylene	mg/kg	0.1	GC.12 subset	<0.1	27443-1	<0.1 <0.1	[NR]	[NR]
Surrogale p-Terphenyl-di4	%		GC.12 subset	110	27443-1	107 108 RPD: 1	LCS-1	109%

QUALITY CONTROL	UNITS	PûL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Organochlorine Pesticides in soil						Base II Duplicate II %RPD		,
Date extracted	-			20/03/0	27443-1	20/03/2009 20/03/2009	LCS-1	20/03/0
Date analysed				20/03/0 9	27443-1	20/03/2009 20/03/2009	LCS-1	20/03/
НÇВ	mg/kg	0.1	GC-5	<0.1	27443-1	<0.1 <0.1	(NR)	[NR]
alpha-BHC	mg/kg	0.1	GC-5	<0.1	27443-1	<0.1 <0.1	LCS-1	86%
gamma-BHC	mg/kg	0.1	GC-5	<0.1	27443-1	<0.1 <0.1	(NR)	[NR]
beta-BHC	mg/kg	0.1	GC-5	<0.1	27443-1	<0.1 <0.1	LCS-1	88%
Heptachlor	mg/kg	0.1	GC-5	< Q.1	27443-1	<0.1 <0.1	LCS-1	87%
della-BHC	mg/kg	0.1	GC-5	{ <0.1	27443-1	<0.1 <0.1	(NR)	[NR]
Aldrin	mg/kg	0.1	GC-5	€ <d.1< td=""><td>27443-1</td><td><0.1 <0.1</td><td>ECS-1</td><td>100%</td></d.1<>	27443-1	<0.1 <0.1	ECS-1	100%
Heptachlor Epoxide	mg/kg	0.1	GC-5	<0.1	27443-1	<0.1 <0.1	ECS-1	89%
gamma-Chlordane	mg/kg	0.1	GC-5	<0.1	27443-1	<0.1 <0.1	(NR)	[NR]
aipha-chiordane	mg/kg	0.1	GC-5	<0.1	27443-1	<0.1 <0.1	(NR)	[NR]
Endosulfan I	mg/kg	0.1	GC-5	<0.1	27443-1	<0.1 <0.1	(NR)	[NR]
pp-DDE	mg/kg	0.1	GC-5	<0.1	27443-1	<0.1 <0.1	LCS-1	85%
Dieldrin	mg/kg	0.1	GC-5	<0.1	27443-1	<0.1 <0.1	LCS-1	93%
Endrin	mg/kg	0.1	GC-5	<0.1	27443-1	<0.1 <0.1	LCS-1	94%
pp-DDD	mg/kg	0.1	GC-5	<0.1	27443-1	<0.1 <0.1	LCS-1	103%
Endosulfan II	mg/kg	0.1	GC-5	<0.1	27443-1	<0.1 <0.1	(NR)	[NR]
pp-DDT	mg/kg	0.1	GC-5	<0.1	27443-1	<0.1 <0.1	(NR)	[NR]
Endrin Aldehyde	mg/kg	0.1	GC-5	<0.1	27443-1	<0.1 <0.1	[NR]	[NR]
Endosulfan Sulphate	mg/kg	0.1	GC-5	<0.1	27443-1	<0.1 <0.1	LCS-1	87%
Methoxychlor	mg/kg	0.1	GC-5	<0.1	27443-1	<0.1 <0.1	(NR)	[NR]
Surrogate TCLMX	%		GC-5	97	27443-1	67 79 RPD: 16	LCS-1	69%



E22758K, Wahroonga Client Reference:

QUALITY CONTROL	UNITS	POL	METHOD	Stank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Organophosphorus Pesticides						Base II Duplicate II %RPD		
Date extracted	-			20/03/0	27443-1	20/03/2009 20/03/2009	LCS-1	20/03/0
Date analysed	-			20/03/0	27443-1	20/03/2009 20/03/2009	LCS-1	20/03/0
Diazinon	mg/kg	0.1	GC.8	<0.1	27443-1	<0.1 <0.1	(NR)	i [NR]
Dimethosle	mg/kg	0.1	GC.8	<0.1	27443-1	<0.1 <0.1	[NR)	[NR]
Chlorpyriphos-methyl	mg/kg	0.1	GC.8	<0.1	27443-1	<0.1 <0.1	[NR)	[NR]
Ronnel	mg/kg	0.1	GC.8	<0.1	27443-1	<0.1 <0.1	[NR)	(NR)
Chlorpyriphos	mg/kg	0.1	GC.8	<0.1	27443-1	<0.1 <0.1	LCS-1	103%
Fenitrothion	mg/kg	0.1	GC.8	<0.1	27443-1	<0.1 <0.1	LCS-1	87%
Bromophos-ethyl	mg/kg	0.1	GC.8	<0.1	27443-1	<0.1 1 <0.1	(NR)	NR
Ethion	mg/kg	0.1	GC.8	<0.1	27443-1	<0.1 <0.1	LCS-1	73%
Surrogate TCLMX	%		GC.8	97	27443-1	67 79 RPO: 16	LCS-1	73%

QUALITY CONTROL	UNITS	PQI.	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PCBs in Soil						Base II Duplicate II %RPD		
Date extracted	-			20/03/0	27443-1	20/03/2009 20/03/2009	LCS-1	20/03/0
Date analysed				20/D3/0 9	27443-1	20/03/2009 20/03/2009	LCS-1	20/03/0
Arochlor 1016	mg/kg	0.1	GC-8	<0.1	27443-1	<0.1 <0.1	[NR]	[NR]
Arochtor 1232	mg/kg	0.1	GC-6	<0.1	27443-1	<0.1 <0.1	[NR)	[NR]
Arochlor 1242	mg/kg	0.1	GC-6	<0.1	27443-1	<0.1 <0.1	[NR]	[NR]
Arochior 1248	mg/kg	0.1	GC-6	<0.1	27443-1	<0.1 jj <0.1	[NR]	[NR]
Arochior 1254	mg/kg	0.1	GC-6	<0.1	27443-1	<0.1 (<0.1	LC\$-1	97%
Arochior 1260	mg/kg	0.1	GC-6	<0.1	27443-1	<0.1 <0.1	[NR;	(NR)
Surrogate TCLMX	%		GC-8	97	27443-1	67 79 RPD: 16	LCS-1	93%

QUALITY CONTROL	UNITS	PQL	METHOD	Błank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Acid Extractable metals in soil				ŧ		Base II Duplicate II %RPD		
Date digested	-		on or 100 mg 1 mg 1 mg 100 mg	20/03/0 9	27443-1	20/03/2009 20/03/2009	LCS-2	20/03/0
Date analysed	-			23/03/0 9	27443-1	23/03/2009 23/03/2009	LCS-2	23/03/0
Arsenic	rng/kg	4	Metals.20 ICP-AES	<4	27443-1	<4 <4	LCS-2	100%
Cadmium	mg/kg	0.5	Metals.20 ICP-AES	<0.5	27443-1	<0.5 <0.5	LCS-2	104%
Chromium	mg/kg	1	Metals 20 ICP-AES	<1	27443-1	9 9 RPD: 0	LCS-2	102%
Copper	mg/kg	1	Metals.20 sCP-AES	<1	27443-1	2 4 RPD: 67	LCS-2	104%
Lead	mg/kg	1	Metals.20 ICP-AES	<1	27443-1	7 8 RPD: 13	LCS-2	102%

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QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Acid Extractable metals in soil						Base II Duplicate II %RPD		
Mercury	mg/kg	0.1	Metals.21 CV-AAS	<0.1	27443-1	0.1 0.1 RPD: 0	LCS-2	118%
Nicke!	mg/kg	1	Metals.20 ICP-AES	<1	27443-1	1 2 RPD: 67	LCS-2	104%
Zinc	mg/kg	1	Metals,20 ICP-AES	<1	27443-1	7 11 i RPD: 44	1C\$-2	103%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank
Moisture			, 	. v. v
Date prepared	-			20/03/2 009
Date analysed	-			20/03/2 009
Moisture	%	0.1	LAB.8	<0.10

QUALITY CONTROL	UNITS	PQL	METHÓD	Blank
Asbestos ID - soils				
Date analysed	-			[TN]

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Sp	ke Sm#	Spike % Recovery
BTEX in Water						Base II Duplicate II %RP0			
Date extracted	-			19/03/2 009	[NT]	[ПП]		LCS-W1	19/03/2
Date analysed	-			19/03/2 009	[NT]	[NT]		LCS-W1	19/03/2
Benzene	µg/L	1	GC.16	<1.0	[NT]	[NT]		LCS-W1	81%
Toluene	µg/L	1	GC.16	<1.0	[NT]	[NT]	LCS-W1		94%
Ethylbenzene	μg/L	1	GC.16	<1.0	[NT]	[NT]		LC\$-W1	1059
m+p-xylene	} µg/L	2	GC.16	<2.0	[NT]	[NT]		LCS-W1	1109
o-xylene	µg/L	1	GC.16	<1.0	[FN]	[NT]		LCS-W1	109%
Surrogate Dibromofluoromethane	%		GC.16	85	[NT]	[ħŤ]		LCS-W1	91%
Surrogate toluene-d8	%		GC:16	71	[NT]	[NT]		LCS-W1	92%
Surrogate 4-BFB	%		GC.16	64	[NT]	(NT)	ļ	LCS-W1	115%
QUALITY CONTROL	UNIT	s	Dup. Sm#		Duplicate	Spike Sm#	Spike 9	& Recovery	
vTPH & BTEX in Soil				Başç +	Duplicate + %RPf	0			
Date extracted	-		27443-26	20/03/2	2009 20/03/2009	27443-2	20/0	03/2009	
Date analysed	-	Ì	27443-26	20/03/2	2009 20/03/2009	27443-2	20/0	03/2009	
vTPH Cs - C9	mg/k	g	27443-26		<25 <25	27443-2	!	32%	ĺ
Benzené	mg/k	ig]	27443-26	1	<0.5 <0.5	27443-2	!	97%	
Toluene	mg/k	ig	27443-26]	<0.5 <0.5	27443-2		95%	
Ethylbenzene	mg/k	ıg	27443-26	1	<1.0 <1.0	27443-2		90%	
m+p-xylene	mg/k	rg	27443-26		<2.0 <2.0	27443-2		90%	
o-Xylene	mg/k	rg	27443-26		<1.0 <1.0	27443-2	1	0:%	ì



		Client Reference	ce: E22758K, Wahroor	าga	
QUALITY CONTROL VTPH & BTEX in Soil	UNITS	Dup. Sm#	Ouplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Surrogate aaa-Trifluorotoluene	%	27443-26	81 86 RPD: 6	27443-2	87%
QUALITY CONTROL sTPH in Soil (C10-C36)	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	27443-26	20/03/2009 20/03/2009	27443-2	20/03/2009
Date analysed	-	27443-26	20/03/2009 20/03/2009	27443-2	20/03/2009
TPH C:0 - C:4	mg/kg	27443-26	<50 <50	27443-2	110%
TPH Ca6 - Cas	mg/kg	27443-26	<100 <100	27443-2	94%
TPH C29 - C36	mg/kg	27443-26	<100 <100	27443-2	86%
Surrogate o-Terphenyl	%	27443-26	84 82 RPD: 2	27443-2	83%
QUALITY CONTROL PAHs in Soit	UNITS	Oup Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	27443-26	20/03/2009 20/03/2009	27443-2	20/03/2009
Date analysed	_	27443-26	20/03/2009 20/03/2009	27443-2	20/03/2009
Naphthalene	mg/kg	27443-26	<0.1 <0.1	27443-2	99%
Acenaphthylene	mg/kg	27443-26	<0.1 <0.1	[NR]	[NR]
Acenaphthene	mg/kg	27443-26	<0.1 <0.1	[NR]	[NR]
Fluorene	mg/kg	27443-26	<0.1 <0.1	27443-2	100%
Phenanthrene	mg/kg	27443-26	<0.1 <0.1	27443-2	101%
Anthracene	mg/kg	27443-26	<0.1 <0.1	[NR]	(NR)
Fluoranthene	mg/kg	27443-26	<0.1 <0.1	27443-2	98%
Pyrene	mg/kg	27443-26	<0.1 <0.1	27443-2	103%
Benzo(a)anthracene	mg/kg	27443-26	<0.1 <0.1	[NR]	[NR
Chrysene	ang/kg	27443-26	<0.1 <0.1	27443-2	108%
Benzo(b+k)fluoranthene	mg/kg	27443-26	< 0.2 < 0.2	(NR)	[NR)
Benzo(a)pyrene	mg/kg	27443-26	<0.06 <0.05	27443-2	106%
Indeno(1,2,3-c,d)pyrene	mg/kg	27443-26	<0.1 <0.1	[NR]	[NR]
Dibonzo(a,h)anthracène	mg/kg	27443-26	<0.1 <0.1	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	27443-26	<0.1 <0.1	(NR)	[NR]
Surrogate p-Terphenyl-dia	%	27443-26	110 102 RPD: 8	27443-2	108%



		Client Referen	ice: E22758K, Wahrooi	nga			
QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	Dup. Sm#	Duplicate Base + Dupficate + %RPD	Spike Sm#	Spike % Recovery		
Date extracted	-	27443-26	20/03/2009 20/03/2009	27443-2	20/03/09		
Date analysed	_	27443-26	20/03/2009 20/03/2009	27443-2	20/03/09		
HCB	mg/kg	27443-26	<0.1 <0.1	[NR]	[MR]		
alpha-BHC	mg/kg	27443-26	<0.1 <0.1	27443-2	93%		
gamma-BHC	mg/kg	27443-26	<0.1 <0.1	[NR]	โหลไ		
bela-BHC	mg/kg	27443-26	<0.1 <0.1	27443-2	93%		
Heptachlor	mg/kg	27443-26	<0.1 <0.1	27443-2	97%		
delta-BHC	mg/kg	27443-26	<0.1 <0.1	[NR]	(NR)		
Aldrin	mg/kg	27443-26	<0.1 <0.1	27443-2	107%		
Heptachlor Epoxide	mg/kg	27443-26	<0.1] <0.1	27443-2	95%		
gamna-Chlordane	mg/kg	27443-26	<0.1 { <0.1	(NR)	[NR]		
alpha-chlordane	mg/kg	27443-26	<0.1 <0.1	(NR)	[NR]		
Endosulfan I	mg/kg	27443-26	<0.1 <0.1	(NR)	(NR)		
pp-DDE	mg/kg	27443-26	<0.1 <0.1	27443-2	89%		
Dieldrin	mg/kg	27443-26	<0 1 <u> </u> <0.1	27443-2	95%		
Endrin	mg/kg	27443-26	<0.1 <0.1	27443-2	100%		
pp-DDD	mg/kg	27443-26	<0.1 <0.1	27443-2	106%		
Endosuffan II	mg/kg	27443-26	<0.1 <0.1	[NR]	[NR]		
pp-DDT	mg/kg	27443-26	<0.1 <0.1	[NR]	[NR]		
Endrin Aldehyde	mg/kg	27443-26	<0.1 <0.1	[NR]	(NR)		
Endosulfan Sulphate mg/kg 274		27443-26	<0.1 <0.1	27443-2	91%		
Methoxychlor mg/kg		27443-26	<0.1 <0.1	[NR)	[NR)		
Surrogate TCLMX	%	27443-26	74 74 RPD: 0	27443-2	81%		

Envirolab Reference: 27443 Revision No:

R 01



		Client Reference	ce: E22758K, Wahroot	nga	
QUALITY CONTROL	UNITS	Dup. Sm#	Duplicate	Spike Sm#	Spike % Recovery
Organophosphorus Pesticides			Base + Duplicate + %RPD		
Date extracted	-	27443-26	20/03/2009 20/03/2009	27443-2	20/03/09
Date analysed	-	27443-26	20/03/2009 20/03/2009	27443-2	20/03/09
Diazinon	mg/kg	27443-26	<0.1 JJ <0.1	[NR]	[NR]
Dimethoate	mg/kg	27443-26	<0.1 J <0.1	[NR]	[NR]
Chlorpyriphos-incthyl	mg/kg	27443-26	<0.1 <0.1	[NR]	[NR]
Ronnel	m g /kg	27443-26	<0.1 <0.1	[NR]	[NR]
Chlorpyriphos	mg/kg	27443-26	<0.1 <0.1	27443-2	100%
Fenitrothian	mg/kg	27443-26	<0.1 <0.1	27443-2	80%
Bromophos-ethyl	mg/kg	27443-26	<0.1 <0.1	[NR]	(NR)
Ethion	mg/kg	27443-26	<0.1 <0.1	27443-2	68%
Surrogate TCLMX			74 74 RPD: 0	27443-2	78%
QUALITY CONTROL	UNITS	Đup. Sm#	Duplicate	Spike Sm#	Spike % Recovery
PCBş in Şoil			Base + Duplicate + %RPD		
Date extracted	-	27443-26	20/03/2009 20/03/2009	27443-2	20/03/09
Date analysed	-	27443-26	20/03/2009 20/03/2009	27443-2	20/03/09
Arochlor 1016	mg/kg	27443-26	<0.1 <0.1	[NR]	(NR)
Arochlor 1232	mg/kg	27443-26	<0.1 <0.1	[NR]	(NR)
Arachiar 1242	mg/kg	27443-26	<0.1 <0.1	[NR]	[NR]
Arochlor 1248	mg/kg	27443-26	<0.1 <0.1	[NR]	[NR]
Arachlar 1254	mg/kg	27443-26	<0.1 <0.1	27443-2	100%
Arechler 1260	mg/kg	27443-26	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%	27443-26	74 74 RPD: 0	27443-2	94%
QUALITY CONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Şm#	Spike % Recovery
Date digested	-	27443-26	20/03/2009 20/03/2009	LCS-2	20/03/09
Date analysed		27443-26	23/03/2009 23/03/2009	LCS-2	23/03/09
Arsenic	mg/kg	27443-26	4 5 RP0: 22	LCS-2	104%
Cadmium	mg/kg	27443-26	<0.5 <0.5	LCS-2	108%
Chromium	mg/kg	27443-26	19 12 RPD: 45	LCS-2	107%
Copper	mg/kg	27443-26	38 40 RPD: 5	LCS-2	110%
Lead	mg/kg	27443-26	21 19 RPD: 10	LCS-2	104%
Mercury	mg/kg	27443-26	<0.1 <0.1	LCS-2	109%
Nickel	mg/kg	27443-26	9 7 RPO: 25	LCS-2	.109%
Zinc	mg/kg	27443-26	29 26 RPD: 11	LCS-2	108%



QUALITY CONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery		
Date digested	L -	[ТИ]	[NT]	27443-26	20/03/09		
Oate analysed	.	[NT]	[NT]	27443-26	23/03/09		
Arsenic			[NT]	27443-26	99%		
Cadmium	mg/kg	[דאן]	[ТИ]	27443-26	102%		
Chromium	mg/kg	[NT]	[NT]	27443-26	104%		
Сорраг	mg/kg	[NT]	[NT]	27443-26	108%		
Lead	mg/kg	[NT]	[NT]	27443-26	107%		
Mercury mg/kg [NT]		[NT]	ļNî]	27443-26	112%		
Nickel mg/kg [NT]		[NT]	ĮNT]	27443-26	105%		
Zinc mg/kg [NT]		[NT]	ĮNT]	27443-26	99%		



Report Comments:

Asbestos was analysed by Approved Identifier: Joshua Limi

INS: Insufficient sample for this test NT: Not tested PQL: Practical Quantitation Limit <: Less than >: Greater t RPD: Relative Percent Difference NA: Test not required LCS: Laboratory Control Sample NR: Not requeste

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike: A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample): This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria:

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in betches of 20. The duplicate sample RPD and matrix spike recoveries for the sample batch were within laboratory acceptance criteria.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.

Matrix Spikes and LCS: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for

SVOC and speciated phenols is acceptable. Surrogates: 60-140% is acceptable for general organics and 10-140% for

SVOC and speciated phenols.





Envirolab Services Pty Ltd

ABN 37 112 535 645 12 Ashley St Chatswood NSW 2067 ph 02 9910 6200 fax 02 9910 6201 enquiries@envirolabservices.com.au www.envirolabservices.com.au

SAMPLE RECEIPT ADVICE

Client:

Environmental Investigation Services ph: 02 9888 5000 PO Box 976 Fax: 02 9888 5001

North Ryde BC NSW 1670

Attention: Todd Hore

Sample log in details:

Your reference: E22758K, Wahroonga

Envirolab Reference: 27443

Date received: 18/03/09

Date results expected to be reported: 25/03/09

Samples received in appropriate condition for analysis: YES

No. of samples provided 55 Soils, 2 Waters

Turnaround time requested: Standard
Temperature on receipt Cool
Cooling Method: Ice Pack

Comments:

Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples.

Contact details:

Please direct any queries to Alleen Hie or Jacinta Hurst

ph: 02 9910 6200 fax: 02 9910 6201

email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au

SAMPLE AND CHAIN OF CUSTODY FORM

12 Ashley \$): Wirolab Services Pty Ltd ! Ashley Street natawood NSW 2067 Jone: (02) 99106200					EIS Job Number: E22758K								EROM: Environmental investigation Services Rear 115 Wicks Road Macquario Park NSW 2113						
l	9910	3200			Date Results Required: Standard								Phone: (02) 9868 5000							
Attention: A	lişan			1								Fax: (02) 98	88 500	04					
Orainet:	Pres	osed Upgra	de and Ev	ranciana	L			Shoot	!		,	\supset		Conta		Todd ervatio				
Project: Location:		ganga Tanga	106 91M EX	tensions										·	sky an		٠٠.			
Sampler:	BP/G	_						Te	ests R	equir	ed									
Dete Sampled	Lab Ref:	Borehole/ Sample Number	Depth (m)	Sample Container	PID	Sample Description	Hasvy Matels (8)	тен/втех	РАН	OC/02/ PCB	4.9089809	TCLP Prep	PAH PA	Phenois	Voc	svoc	POCAS			
17-03-09	1	вн (0.2	Gʻass jar + Aab Bag	Z	All	X	X	X	X	X						1			
17-03-09	72	вн 2	024	Gloss jar + Asb Bag	Ø-		X	X	×	\times	X						52			
i7-03-09	3	вн 2	122	Glass jar + Asti Bag	1.2	F														
6-03-09	¥	вн 3	0 1 2	Gleta jar 15 Ash Bag	o:	7 F	X	X	\times	X	X) Y (2	7.5.7 EV. V			Y.N		ŊŢ	
16-03-09	5	вн З	05	Glass jar + Asb Bag	O	Natural	.,,													
16-03-09	6	ви 4-	62	Olbest Jan. + Asto Beg	0		\times	×	×	\times	\times								::#7 (::::2	
<u>₩</u> -03-09	7	вн 4	5.8	Glassjar + Asb Bag	0	F	<u> </u>	<u> </u>	L		<u> </u>			_						
03-09	9	вн 4	0:8 0:%	Gless jar 🕶 Asb Bag	0.	N					12 - 13						, 100 m	**************************************		
[3 -03-09	9	вн 5	0.2	Glassjør + Asb Bag	0	F						L				<u> </u>				
<u>1</u> 3-03-09	ō.	вн 6	090	Glass for +7 Asb Bag	O	F	\times	\geq	X	X	imes		7,139 7,755				72.65 12.65			
13-03-09	11	BH S	7.5	Glass jer + Asb Bag	0	<i>N</i>								L_						
1Z-03-09-	12	вн 6	05.4	Gless jar, + Asb Beg	O	1	\times	X	X	×	×						W.	(757-7.5 (777-7.7		
12-03-09	13	вн б	1-13	Glass jar + Azb Beg	0	F													<u> </u>	
12.03.09	Šķ.	вн 6	2 3 3	Glace lar +	0	Z N/		1000								\$2.50 pt	0013 Fex			
12-03-09	1/	вн 7	097	Glass jer + Asb Bog	0	F	X	\geq	\times	区	\times						<u> </u>	<u> </u>		
12-03-09	i i	вп 💈	22	Glass large Astr Bag	0,	N.		\$/# \$/#	14.2 14.4					72. I				ALIGNACIA ALIGNACIA ALIGNACIA ALIGNACIA		
12-03-09	17	вн 8	0.05	Gʻaes jar + Asb Bog	0	F	\times	\times	\times	\times	\times	Ĺ		[1717012	Servic Anhley PSIV 20 PSIO 82	31	
12-03-09	',χ'	BH 6	0 9 0 12	Glean jet 24	Ø.					42		C ±	-20 -20				7	9910 82	2	
\Z-03-09	39	вн 🗳	000	Glass jar → Asb Bag	0	F	X	\times	\times	X	\times			[±	iob No	1 <i>4 1</i> Y	43			
(203:09	70	8H G	135	Glade jar + AAD Beg	0	14	78) (2-) 1 (2-)							2007 2007 2007		3422 34134	77.4			
[2-03-09	2 ∕/	вн 9	20	Glans Jar. I	0	N.		84							1	1999		2/0		
(2-03-09	n	BH 10	0.2	Glass jar + Asb Bag	0	F	X	X	X	X	X			So	redrity: 1	tacular Actual	A copylical) \		
(2-03-09	13	8H 10	0.6	Gleas jar 🗟 Asti Bag	0	1	1980 1280		7025 0,07	5.00 Sec.	. (2/1 -1/€	Ž	 							
(2-03-09	W	вн 10	1-3	Glass jar + Asb Bag	0	1		:												
Remarks (con		/detection lin	nits réquired																	
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Relinquishes	dγ: 	Date: $t \delta_t$	/ <i>I</i> /24	Received By		1. 🤇	Dellin	quistre	a dy:		() ato Time						Tripcell	red By:		
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SAMPLE AND CHAIN OF CUSTODY FORM

T.Q: Envirolab Services Pty Ltd 12 Ashley Street Chatswood NSW 2067				EIS Jeb Number: E22758K						FBOM: Environmental Investigation Services Roar 115 Wicks Road Macquarle Park NSW 2113								
Phone: (Q2) 99106200 Fax: (Q2) 99106201					Date Results Required: Standard								TO FOUR PROPERTY					
Attontion: Alleen											Phone: (02) 9888 5000 Fax: (02) 9888 5004							
								Shael	<u> </u>		, -	3	Conta	ict:	Todd	Hore		 i
Project:	Prope	sed Upgr	sde and Ex	(tensions									Samp	le Pres	ervatio	en:		
Location:	Wahi	oonga				'							le es	ky on	ice			
Sampler:	₿P/G	F				· · · ·				equir		_	 -	1			·····	ـــــا
Date Sampled	Lab Ref:	Borehole/ Sample Number	Depth (m)	Sample Container	PID	Sample Description	Heavy Metals (8)	тен/втех	PAH	90/0P/	Asbestos	TCLP Prep + M6, PAH	Phadols	voc	SVOC	9PUCAS		
12-03-09	VS.	вн 10	19	Gloss jar +	0	N												
17-03-09	76	88	0 % 3	Class jar ± Ash Sug	0		X	\times	X	\times	X							
12-03-09	77	вн 🚺	10.9	Glass ior +	0	F			3777377	*****	- Sec. (2)	-72,6	ļ	<u> </u>	20 as s		L . 19 75.	
12_03-09	28	вн (2	0 25	Glass par 4 Asb Bag	O	18 K. T.		:- \frac{1}{2}			2001 0 0		(2.50 (2.50)		ÿ			
17-03-09	B	вн (2_	1.0	Gless jar + Asb Bag	0	N	······································	····		· · · · ·		/ 	126.0750				20.00	
172-03-09	3 0	8н₌[7.	1.5	Gless (er= 6) Asb Seg	0) (j)	78	ěij.	27 P. 1		(#/CV	7 7 X		14.1	300
13-03-09	5/	вн 13	0.12 5.17	Glass jor + Ash Bog	0	F	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	200 500	Bar 2003	k lás	rivi (va	rin independ		C L - 10.1	I 1780.		1 a a 5 i	21 O.S.
13-03-09:	32	вн ∖3	65	Glass let + Asb Beg	0	- N	Ų					100 (100 (100 (100 (100 (100 (100 (100				0.000 0.000		
17-03-09	35	вн 14-	1005	Glass jer ≁ Asb Bag	0	<i>F</i>	X	X	X	\geq		9. m. A. K.	12.22.3	1 100.11.	F 0.42 /	1 2 2	<u> </u>	10.00
17-03-09	34	BH (4	1.3	Glass (e. 4. And Beg	0				()					.07		1000		: A
17-03-09	25	вн (†	2/2 4	Glass jer + Aab Beg	0	F	X	X	X	X	$ \Sigma $	D. 545.73		\ a!** p **	1 10011 1111		- 	17.7
11-03-09	<i>I</i> (5	8a 14	3 % 0	Glass Jan + . FAsb Bag	0										\$0000 \$4000			
17-03-09	<u>}</u> 7	вн 14	424	Gloss jer + Asb Bag	0	N.	X	Δ	X	X		Sefer Course of	N.V. V.	10 B		ļ <u>.</u>	Oraș la	77.00
16 -03 09	38	8H-15	035	Glass jat +	0		MW		ű.		18.8E				W.X.	100 AV		
\b -03-09	31	вн 15 Вистипа	136	Gless jar + Ash Beg Gless jars +:	0	F Salas Salas 981 :::	. 25	# J- K .	9 8542	18 York	350 BB	1	941 end	39757	200.50	Holeso II	1 14 14 1	
V603-09	10	81 (5	0.3	Asb Beg : Glass Jar +	O	- M	<u> </u>						120		300	4.45		
17-03-09		вн 16	10000000	Ash Bag	2.1	N	\sum		\times		$\langle \cdot \rangle$	20-1-1-03-44 <u>-</u>		lan sus	You Felice	3 9	1.336	Time to
11-03-09	٧Ĺ	883	7 o	As6 Beg Gless jer ≁	3.0	. ,	78	<u> </u>		Z	28.				() E ;	ŠŠ		
1403-09	ψ}	BH (1)	2.4 \$	Asb Bag Glass large	3.5		N	- \ <u>=</u> Z	700	1.3.72	NVZ:		<u> </u>		STATE OF THE	4.4.7	3 5.3 ⁵	1000
1203-09	ΥY	BH 16	0 A	A46 9ag	9			X						\$3.87 10.47	1474.F.V 2.772.			
12-03-09		87.118	06	Class per +	0		$\langle \rangle$	X	Ķ			enio (Titis) enio Aramer	<u> (44)44</u>		W.W.			
1203-09	१५ १७७३	вн (9	हैं (Ash Beg	2	<i></i>		A		X		116. 14 ¹ 171	[] Av	7,800,800		(0)20	100 4. 70	7777.57
\2-03-09	V	BH(9	0.02	Auto Bag //	0	W.				22.4				7		· 八型		
\Z-03-09 Itemarks (com	48	BH 20	0.2	Asta Bag	0	<u> </u>	\triangle	<u> </u>	X		ĽŽ.	<u></u>	<u> </u>		<u> </u>	Щ		
Premierks (com		ractestiqu III	re- + 4 den 90															
Ro'sequished t	By:	Date: 18	15/29	Recaived By:			Reline	uishet	By:		Data:					Recen	ed By:	
that	-	Time:	1/5/29 2/^	Sim	~011	<u> S</u>					Tima	:			-	1		

SAMPLE AND CHAIN OF CUSTODY FORM

IO: Envirolab Services Pty Ltd 12 Ashley Street Chatswood NSW 2067 Phone: (OZ) 99106200				EIS Job Number: E22758K							FROM: Environmental Investigation Services Rear 115 Wicks Road Macquerie Park NSW 2713							
Fax: (02) 99106201 Attension: Ailean				2 -2						Phone: [02] 9888 5000 Fax: (02) 9888 5004								
Project: Proposed Upgrade and Extensions				tanciono	ŧ			Shoc	1		1, 3	<u> </u>	Contact: Todd Hore Sample Preservation:					
Project: Location:		oonga waa opgra	100 anto E	(totiorona							l '	sky on						
Sampler:	BP/G	-						Te	esis A	teauir	ed		""	, , , , ,	100			
Date Sampled	Lab Rel:	Borehole/ Sample Number	Depth (m)	Sample Container	PID	Sample Description	Heavy Metels (8)		Г	00,0P/ PCB		TCLP Prep + M6. PAH	Phenals	voc	2000	sPOCAS	OTEX	
1203-09	ÜΫ	вн 20	0.3	Glass jer + * Asb Bag	0	N							}	<u> </u>	<u> </u>			
ιZ-03-09≘	Le .	вн 21	0.2	Glass jar +2 Asb Bag	0	<i></i>	X	Χ	Χ	X	Х		î (A)	mán) Prá		Ì		
[2-03-09	51	8H 긴	1.3	Glass jar +	Δ	N			_									
1Z-03-09	17	ø PB (Gless Jan 4		Sase										303	$\gg \le$	ĬØ.
13-03-09	5>	BH FBZ		Glass jor + Ach Bag	ļ	Sank	L							<u> </u>	<u> </u>			
1Z-03:09	(Ye			Glave 16.	<u> </u>	EXULAIS	- 1 (1) - 1 (1) - 1 (1)	: 00 M	(* 40 () (*)	. (72) (. 3)						03.57 0.0250	<u>><</u>	
13-03-09	1	まっか		750-089 -750-089	2 80	EK Viels			N								\geq	4
-03-09	1	eff DOIP	95.70.00.00.00 0.70.00.00.00.00 0.70.00.00.00.00.00	Glass Jan H			X		X		8-20 8-50			1,000				(22.7)
-03-09	1	554 2.		Glosa jau +			X	737.74	X		0.750	. 5	18.50				Parteras	era:
-03-09		81	Property (Comment)	Glaiss jor +	\$1.52°				109/g. 14992	<u> </u>		2000 (1000) 2000 (1000) 2000 (1000)	FUSION ETERNIE	V 37777				
-03-09	Taraning.	BH		Glass jar + Ash Bag	s ii	enders este il	1	2.ZZ.;	1. 527	8 W.V	1.25 -1	25,80 ,003		5 5 7 A.A.	nies s	À 11	- sh 3-	1.127 277
-03-09	82	64		-Glass jar + - Ash Bag - Glass jar +						100A 100A			11.40	A REAL PROPERTY.				
-03-09		BH	Altinata Na	Asb Bag	As to a sign	Se en agrico de la la la la la la la la la la la la la		· ·		F0.75.6.	7 - 23	1 K 11 K KO	 		-8 % . 1/-	V 1000	isto e	
-03-09		BH-TA		Giges per 4 Ash Bag Glass jar +			: Or	K OR	7.7% 1.7%				7357	- Table		沙漠		
-03-09	a 11965	BH Assistance in the	. Caregoria	Asb Bag	(E), (VI) (S)	i dilich (w.e	K14-60	20150	,24).	et 141	(24, E.g.,	/ ADD-11-00	F 107201	1002	Se Vive	5000-	958 - 12	LUE - IT
-03-09		BH -		Ach Bap			140	5400 5400 5400	740 ₀ 0						170 Maria 170 Maria 177 Maria			24A)
-03-09		BM CTask Calebral	چۇغرامىيىتىنىڭ	Glass jar ◆ Aab Bag Glass jar-4-2	lica de la	racegow With earlier Ar	2 ESS	1.15.25	2.8	8/-5/20 8/-5/20			E.G.A	5 x 4 x 6 a	\$0£X	**************************************	##K* 14	F 1.824
-03-09				Asto Bag. Glass jo: +							200		57.50		39000 2000			
-03-09	47.00	BH	e on the orthogra- delete on produced	Asb Bag	tel salar	nigrê Hikbûrênê	: .::295a	1.31-9-	7 1s	\$-4,37)	tharite	- - 2004-1703	d Maria da da		Ras Sas	J -070	40427 (F	
-03-09		BH	HOWARD Francisco	Ast Beg	<u> </u>)	1000000 1000000 10000000			
03.09		8H	0.000 E	SAsb Beg : Glass jar +				350			71.00 7.00 7.00 7.00 7.00 7.00 7.00 7.00	PECHOLOG Contestos	7.00		\$\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\$. T	2 Sul (2)	
-03-09	CC 4. 27	BH 280 7/20 7	# - 1-0 5 te	Asb Bag	(57.50)#	rayaya badir	544.50b	\ ####	400	you.	<u> </u>	(45 453):105	i egyete	्रे (केर्ड्ड <u>ू</u>	EV-AYR.	100 mg 150 mg 150 mg 150 mg 150 mg 150 mg 150 mg 150 mg 150 mg 150 mg 150 mg 150 mg 150 mg 150 mg 150 mg 150 m 100 mg 150 mg 150 mg 150 mg 150 mg 150 mg 150 mg 150 mg 150 mg 150 mg 150 mg 150 mg 150 mg 150 mg 150 mg 150 mg	9: 0 :9829	9 0 0000
. 03-09		B H ***		Asb Beg Glass jar +) (7.9) 2.000		<u> </u>	#5%	0010000 000000						
-03-09 Remarks (com		BH detection on	its secured:	Asb Bag			<u> </u>		<u> </u>			<u></u>		1				<u></u>
				•														
Relinquistred B		Oate: (8) Time: 2	15/58 P^	Received By:	in	n.5	Reling	sished	i By:		Date: Time:					Receiv	red By:	



Envirolab Services Pty Ltd
ABN 37-112-535-645
12 Ashley St Chatswood NSW 2067
ph 02-9910-6200 fax 02-9910-6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS 27443-A

Client:

Environmental Investigation Services

PO Box 976 North Ryde BC NSW 1670

Attention: Todd Hore

Sample log in details:

Your Reference: E22758K, Wahroonga

No. of samples: Additional Testing on 17 Soits

Date samples received: 18/03/09
Date completed instructions received: 30/03/09

Analysis Details:

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: 6/04/09
Date of Preliminary Report: Not issued Issue Date: 3/04/09

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This document is issued in accordance with NATA's accreditation requirements.

Accredited for compliance with ISO/IEC 17025.

Tests not covered by NATA are denoted with *.

Results Approved By:

Brismes Development & Quality Manager



Client Reference:

wew	 -	Υ	₁	1	ı	
Metals in TCLP USEPA1311 Our Reference:	UNITS	27443-A-2	27443-A-4	07442 A C	07440 4 40	07440 4 40
Your Reference	UNITA	BH2	BH3	27443-A-6 BH4	27443-A-10 BH5	27443-A-12 BM6
Depth		0.2-0.4	0.1-0.2	0.1-6.2	0.9-1.0	0.5-0.7
Date Sampled		17/03/09	16/03/09	16/03/09	13/03/09	12/03/09
Type of sample		Soil	Soit	Soil	Soil	Soil
Date extracted		31/03/2009	31/03/2009	31/03/2009	31/03/2009	31/03/2009
Date analysed	-	2/04/2009	2/04/2009	2/04/2009	2/04/2009	2/04/2009
pH of soil for fluid# determ.	pH units	8.40	8.20	7.80	7.50	7.40
pH of soil for fluid # determ. (acid)	pH units	1.70	1.60	1.50	1.60	1.70
Extraction fluid used	-	ī	1	1	1	1
pH of final Leachate	pH units	5.00	5.10	5.20	5.00	5.00
Arsenic in TCLP	mg/L	<0.050	[NA]	[NA]	[NA]	<0.050
Chromium in TCLP	ni g /L	[NA]	<0.010	<0.010	<0.010	<0.010
Lead in TCLP	mg/L	[NA]	<0.030	<0.030	<0.030	<0.030
Nrcket in TCLP	mg/L	[NA]	<0.020	<0.020	<0.020	<0.020
Metals in TCLP USEPA1311]			
Our Reference:	UNITS	27443-A-15	27443-A-17	27443-A-22	27443-A-26	27443-A-33
Your Reference		BH7	вна	BH10	BH11	8H14
Depth		0.4-0.7	0.05-0.3	0.2-0.5	0.2-0.3	0.4-0.5
Date Sampled		12/03/09	12/03/09	12/03/09	12/03/09	17/03/69
Type of sample		Soil	Soil	Şoil	Soil	Soit
Date extracted	-	31/03/2009	31/03/2009	31/03/2009	31/03/2009	31/03/2009
Date analysed	-	2/04/2009	2/04/2009	2/04/2009	2/04/2009	2/04/2009
pH of soil for fluid# determ.	pH units	7.20	9.70	8.10	7.80	8 60
pH of soil for fluid # determ. (acid)	pH units	1.70	1.60	1.50	1.60	1 50
Extraction fluid used	_	1	1	1	1	1
pH of final Leachate	pH units	5.00	6.50	5.00	5.10	5 40
Arsenic in TCLP	mg/L	<0.050	[NA]	[NA]	[NA]	[NA]
Chromium in TCLP	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010
Lead in TCLP	e mg/L	<0.030	[NA]	0.040	<0.030	<0.030
Nickel in TQLP	mg/L	<0.020	0.020	<0.020	<0.020	0 070

E22758K, Wahroonga

Envirolab Reference: Revision No: 27443-A R 00



Client Reference:

E22758K, Wahroonga

Metals in TCLP USEPA1311					I	Τ
Our Reference:	UNITS	27443-A-35	27443-∧-41	27443-A-42	27443-A-44	27443-A-46
Your Reference		BH14	BH16	8H17	BH18	BH19
Depth	U4V-L1	2.5-2.8	0.3-0.5	0.1-0.2	0.1-0.3	0.0-0.1
Date Sampled		17/03/09	17/03/09	17/03/09	12/03/09	12/03/09
Type of sample		Soil	Sail	Soil	Sof	Şoil
Date extracted	-	31/03/2009	31/03/2009	31/03/2009	31/03/2009	31/03/2009
Date analysed	_	2/04/2009	2/04/2009	2/04/2009	2/04/2009	2/04/2009
pH of soil for fluid# determ.	pH units	7.80	8.20	8.10	7.80	7.30
ρΗ of soil for fluid # determ. (acid)	pH units	1 50	1.60	1.60	1.60	1.50
Extraction fluid used	-	1	1	1	1	1
pH of final Leachate	pH units	5.00	5.00	5.00	5.00	5.00
Chromium in TCLP	mg/L	<0.010	[NA]	<0.010	<0.010	<0.010
Lead in TCLP	mg/L	0.060	[NA]	<0.030	<0.030	0.050
Nickel in TCLP	mg/l.	<0.020	<0.020	[NA]	<0.020	<0.020

Metals in TCLP USEPA1311			
Our Reference:	UNITS	27443-A-48	27443-A-50
Your Reference		BH20	BH21
Depth		0.02-0.2	0.2-0.4
Date Sampled	1	12/03/09	12/03/09
Type of sample		Soil	Soil
Date extracted	-	31/03/2009	31/03/2009
Date analysed	-	2/04/2009	2/04/2009
gH of soil for fluid# determ.	pH units	8.20	9.80
pH of soil for fluid # determ. (acid)	pH units	1.60	1.60
Extraction fluid used	-	1	1
pH of final Leachate	pH units	5.10	5.10
Chromium in TCLP	mg/L	<0.010	[NA]
Lead in TCLP	mg/L	<0.030	<0.030
Nickel in TCLP	mg/L	[NA]	<0.020

Envirolab Reference: 27443-A Revision No:

R 00



PAHs in TCLP (USEPA 1311)			1		
Our Reference:	UNITS	27443-A-15	27443-A-22	27443-A-33	27443-A-35
Your Reference		BH7	BH10	BH14	BH14
Depth		0.4-0.7	0.2-0.5	0.4-0.5	2.5-2.8
Date Sampled		12/03/09	12/03/09	17/03/09	17/03/09
Type of sample		Soil	Soil	Soil	Şail
Date extracted	-	1/04/2009	1/04/2009	1/04/2009	1/04/2009
Date analysed	-	1/04/2009	1/04/2009	1/04/2009	1/04/2009
Naphthalene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001
Acenaphthylene in TCLP	mg/L	<0.051	<0.001	<0.001	<0.001
Acenaphthene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001
Fluorene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001
Phenanthrene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001
Anthracene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001
Fluoranthene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001
Pyrene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001
Benzo(a)anthracene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001
Chrysene in TCLP	mg/L	<0.001	<0.001	<0.001	< 0.001
Benzo(b+k)fluoranthene in TCLP	mg/L	<0.002	<0.002	< 0.002	<0.002
Benzo(a)pyrene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001
Indeno(1,2,3-c,d)pyrene - TCLP	mg/L	<0.001	<0.001	<0.001	<0.001
Diberizo(a,h)anthracene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001
Benzo(g,h,i)perylene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001
Surrogate p-Terphenyl-dra	%	119	106	96	106



Method ID	Methodology Summary
LAB.4	Toxicity Characteristic Leaching Procedure (TCLP).
EXTRACT.7	Yoxicity Characteristic Leaching Procedure (TCLP).
LAB.1	pH - Measured using ipH meter and electrode in accordance with APHA 20th ED, 4500-H+.
Metals.20 ICP- AES	Determination of various metals by ICP-AES.
GC.12 subset	Leachates are extracted with Dichloromethane and analysed by GC-MS,
GC.12 subset	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.
GC.12	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.



Client Reference:

E22758K, Wahroonga

QUALITY CONTROL	UNITS	PQI.	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Metals in TCLP USEPA1311						Base II Duplicate II %RPD		
Date extracted	-			31/03/0 9	27443-A-6	31/03/2009 31/03/2009	LCS-W1	31/03/
Date analysed	-			02/04/0	27443-A-6	2/04/2009 2/04/2009	LCS-W1	02/04/
Arsenic in TCLP	mg/L	0.05	Metals.20 ICP-AES	<0.050	[NT]	[ТИ]	LCS-W1	1113
Chromium in TCLP	mg/L	0.01	Metals:20 ICP-AES	<0.010	27443-A-6	<0.010 <0.010	LCS-W1	103%
Lead in TCLP	mg/L	0.03	Metals.20 ICP-AES	<0.030	27443-A-6	<0.030 <0.030	LCS-W1	104%
Nickel in TCLP	mg/L	0.02	Metals.20 ICP-AES	<0.020	27443-A-6	<0.020 j <0.020	LCS-W1	106%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate \$m#	Duplicate results	Spike Sm#	Spike %
PAHs in TCLP (USEPA 1311)						Base II Duplicate II %RPD		Récovery
Date extracted	-			1/04/20	[NT]	[NT]	LCS-W1	1/04/20
Date analysed	-			1/04/20	[NY]	[NT]	LCS-W1	1/04/20
Naphthalene in TCLP	mg/L	0.001	GC.12 subset	<0.001	[NT]	[NT]	LCS-W1	92%
Acenaphthylene in TCLP	mg/L	0.001	GC.12 subset	<0.001	[NT]	[NT]	[84]	[NR
Acenaphthene in TCLP	mg/L	0.001	GC.12 subset	<0.001	[NT]	[IT/I]	[NR)	[NR
Fluorene in TCLP	mg/L	0.001	GC.12 subset	<0.001	[NT]	[TN]	LCS-W1	1019
Phenanthrene in TCLP	mg/L	6.001	GC.12 subset	<0.001	[NT]	[NT]	LCS-W1	100%
Anthracene in TCLP	mg/L	0.001	GC.12 subset	<0.001	(NT)	[ИТ]	[NR]	[NR
Fluoranthene in TCLP	mg/L	6.001	GC.12 subset	<0.001	(TM)	[ΝΤ]	LCS-W1	96%
Pyrene in TCLP	mg/L	0.001	GC.12 subset	<0.001	[NT]	[NT]	LCS-W1	100%
Benzo(a)anthracene in TCLP	mg/L	0.001	GC.12 subset	<0.001	ĺνΤ]	[NT]	(NR)	(NR)
Chrysene in TCLP	mg/L	0.001	GC.12 subset	<0.001	(TN)	[FN]	LCS-W1	108%
Benzo(b+k)fluoranthene in TCLP	mg/L	0.002	GC.12 subset	<0.002	{NT]	[TN]	(NR)	[NR
Benzo(a)pyrene in TCLP	mg/L	0.001	GC.12 subset	<0.001	[ТИ]	[٢٨]	LCS-W1	102%
Indeno(1,2,3-c,d)pyrene - TCLP	mg/L	Q.001	GC.12 subset	<0.001	[TFM]	[NT]	[NR]	[NR]
	1 .	1	I	1		1	1	

Envirolab Reference: Revision No:

Dibenzo(a,h)anthracene in TCLP

ence: 27443-A R 00

mg/L

0.001

GC.12

subset



[NT]

[NT]

<0.001

[NR]

(NR)

Client Reference: E22758K, Wahroonga QUALITY CONTROL UNITS PQL METHOD Blank Dupkcate Sm# Duplicate results Spike Sm# Spike % Recovery PAHs in TCLP (USEPA) Base II Duplicate # %RPD 1311) 0.001 GC.12 < 0.001 Benzo(g.h,i)perylene in mg/J, [N''][NT] (NR) NRI TOLP subset Surrogate p-Terphenyl-GC.12 95 % [NT] [NT] LCS-W1 112% QUALITY CONTROL **UNITS** Dup. Sm# Duplicate Spike \$m# Spike % Recovery Metals in TCLP USEPA1311 Base + Duplicate + %RPD Date extracted [NT] [NT] ECS-W2 31/03/09 Date analysed [NT] LCS-W2 [NT] 02/04/09 Arsenic in TCLP [NT] mg/L [NT] LCS-W2 109% Chromium in TCLP [NT] [NT] LCS-W2 mg/L 103% Lead in TCLP mg/L [NT] [N1] LCS-W2 103% LCS-W2 Nickel in TCLP mg/L [NT] [NT] 104% QUALITY CONTROL UNITS Dup. Sm# Duplicate Spike Sm# Spike % Recovery Metals in TCLP USEPA1311 Base + Duplicate + %RPD Date extracted [NT] [NT] 27443-A-41 31/03/09 Date analysed [NT] (NT) 27443-A-41 02/04/09 Arsenic in TCLP mg/L [NT] [NT] 27443-A-41 107% Chromium in TCLP mg/L [NT] [NT] 27443-A-41 101% Lead in TCLP mg/L [NT] [NT] 27443-A-41 102% Nickel in TCLP [NT] mg/L $[\Pi\Pi]$ 27443-A-41 103%



Report Comments:

Asbestos was analysed by Approved Identifier:

Not applicable for this job

INS: Insufficient sample for this test

NT: Not tested PQL: Practical Quantitation Limit

RPD: Relative Percent Difference

NA: Test not required LCS: Laboratory Control Sample

NR: Not requeste

<: Less than

>: Greater t

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike: A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample): This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample,

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria:

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the sample batch were within laboratory acceptance criteria.

Duplicates: <5xPQL - any RPD is acceptable;

>5xPQL - 0-50% RPD is acceptable.

Matrix Spikes and LCS: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for

SVOC and speciated phenols is acceptable.

Surrogates: 60-140% is acceptable for general organics and 10-140% for

SVOC and speciated phenols.



IO: Envirolab Servi 12 Ashley Stron Chatswood NS	ı	, , , , , , , , , , , , , , , , , , ,	····-		AND CHA	··· ·-·		301,	<u></u>	<u> </u>	<u></u>	Rear 1	mentel 15 Wi	cks Ra	_	Senicos 3	
Phone: (02) 991 Fax: (02) 99106	06200			Date A	osulta Roquin	ıd:	stand	ard 1°	аюил	1		Phone	· (02) ·	9886 (5000		
Attention: Aileer	,													88 600			
							Sheet		1		1	Conta	et:	Todd	Hore		
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	egroong a						4.	sts R	ogulo	~4		in es	iky on '	iće			
Date La	Borehole/	Depth (m)	Sample Container	PID	Sample Description	TCLP Prep	Aresenic	Cadmium	Chromlum	Lead	Nickel	PAHE	voc	3,000	3POCAS		
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Envirolab Ref: 27443 A

Due: 614109

etd TIA.



Envirolab Services Pty Ltd ABN 37 112 535 645

12 Ashfey St Chatswood NSW 2667 ph 02 9910 6200 fax 02 9910 6201 enquiries@envirolabservices.com.au www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS 27715

Client:

Environmental Investigation Services

PO Box 976 North Ryde BC NSW 1670

Attention: Todd Hore

Sample log in details:

Your Reference: E22758K, Wahroonga

No. of samples: 3 Waters

Date samples received: 27/03/09

Date completed instructions received: 27/03/09

Analysis Details:

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: 3/04/09
Date of Preliminary Report: Not issued Issue Date: 31/03/09

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Accredited for compliance with ISO/IEC 17025.

Tests not covered by NATA are denoted with *.

Results Approved By:

Rosmoss Development & Chality Manager



vTPH & BTEX in Water				
Our Reference:	UNITS	27715-1	27715-2	27715-3
Your Reference	######################################	MW3	MW17	Dup A
Date Sampled		27/03/2009	27/03/2009	27/03/2009
Type of santple		Water	Water	Water
Date extracted	-	28/03/2009	28/03/2009	28/03/2009
Date analysed	-	28/03/2009	28/03/2009	28/03/2009
TPH C5 - C9	μg/L	<10	<10	<10
Benzene	μg/L	<1.0	<1.0	<1.0
Toluene	µg/iL	<1.0	<1.0	<1.0
Ethylbenzone	μg/Ł	<1.0	<1.0	<1.0
m+p-xylone	µg/L	<2.0	<2.0	<2.0
o-xylene	μgÆ	<1.0	<1.D	<1.0
Surrogate Dibromofluoromethane	%	98	93	94
Swrogate taluene-d8	%	104	104	103
Surrogate 4-BFB	%	99	98	102



sTPH in Waler (C10-C36)				
Our Reference:	UNITS	27715-1	27715-2	27715-3
Your Reference		MW3	MW17	Ο υρ Α
Date Sampled		27/03/2009	27/03/2009	27/03/2009
Type of sample		Water	Water	Water
Date extracted	-	30/03/2009	30/03/2009	30/03/2009
Date analysed	-	31/03/2009	31/03/2009	31/03/2009
TPH C16 - C14	μg/L	<50	<50	<50
TPH C15 - C28	βg/L	<100	<100	<100
TPH C26 - C26	ļ μg/L	<100	<100	<100
Surrogate o-Terphenyt	%	97	97	104



HM in water - dissolved				
Our Reference:	UNITS	27715-1	27715-2	27715-3
Your Reference		MW3	MW17	Ουρ Α
Date Sampled		27/03/2009	27/03/2009	27/03/2009
Type of sample		Water	Water	Water
Date prepared	-	31/03/2009	31/03/2009	31/03/2009
Date analysed	-	31/03/2009	31/03/2009	31/03/2009
Arsenic-Dissolved	μg/L	3.3	9.2	9.2
Cadmium-Dissolved	μg/L	<0.10	0.20	0.20
Chromium-Dissolved	μg/L	<1.0	<1.0	<1.0
Copper-Dissolved	μg/L	<1.0	<1.0	<1,0
Lead-Dissolved	μg/L	<1.0	50	55
Mercury-Dissolved	μg/L	<0.50	<0.50	<0.50
Nickel-Dissolved	μg/L	6.5	50	50
Zinc-Dissolved	μg/L	21	110	90



Miscellaneous Inorganics			
Our Reference:	UNITS	27715-1	27715-2
Your Reference		MW3	MVV17
Date Sampled		27/03/2009	27/03/2009
Type of sample		Water	Water
Date prepared	-	27/03/2009	27/03/2009
Date analysed	-	27/03/2009	27/03/2009
Нq	pH Units	6.5	6.2
Electrical Conductivity	μS/cm	340	610



Methodology Summary
Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS.
Soil samples are extracted with Dichloromethane/Acetonol and waters with Dichloromethane and analysed by GC-FID.
Determination of various metals by ICP-MS.
Determination of Mercury by Cold Vapour AAS.
pH - Measured using ipH meter and electrode in accordance with APHA 20th ED, 4500-H+.
Conductivity and Salinity - measured using a conductivity cell and dedicated meter, in accordance with APHA2510 20th ED and Rayment & Higginson.



QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
vTPH & BTEX in Water						Base II Dupticate II %RPD		
Date extracted	-			28/03/2 009	[NT]	[NT]	LCS-W1	28/03/21
Date analysed	-			28/03/2 009	[NT]	[NT]	LCS-W1	28/03/20
TPH C6 - C9	µg/L	10	GC.16	<10	ĮNŧT]	[NT]	LCS-Wt	90%
Benzene	ļ μg/L	1	GC.16	<1.0	[NT]	[NT]	LCS-W1	88%
Tolvene	μg/L	1	GC.16	<1.0	[NT]	[NT]	ECS-W1	95%
Elhylbenzene	րց/Լ	1	GC.16	<1.0	[NT]	(NT)	LCS-W1	88%
m+;>-xylene	hg/L	2	GC.16	<20	NT]	(NT)	LCS-W1	89%
o-xylene	µg/L	1	GC.16	<1.0	[NT]	[NT]	LCS-W1	90%
Surrogate Dibromofluoromethane	%		GC.16	94	[ПП]	[NT]	LCS-W1	99%
Surrogate toluene-d8	%		GC.16	106	[NT]	[NT]	LCS-W1	107%
Surrogate 4-BFB	%		GC.16	99	[NT]	[NT]	LCS-W1	94%

QUALITY CONTROL	UNITS	PQI.	METHOD	Btank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
sTPH in Water (C10-C36)						Base II Duplicate II %RPD		
Date extracted	-			30/03/2 009	[NT]	[NT]	LCS-W1	30/03/20
Date analysed	-			31/03/0 9	[NT]	[NT]	LCS-W1	31/03/0
TPH C19 - C14	µg/L	50	GC.3	<50	[NT]	[NT]	LCS-W1	129%
TPH Cas - Cae	µg/L	100	GC.3	<100	[NIT]	[NT]	LCS-W1	131%
TPH C 29 - C36	μg/L	100	GC.3	<100	[NT]	[NT]	LCS-W1	119%
Surrogate o-Terphenyl	%		GC.3	103	[NT]	[NT]	LCS-W1	107%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
HM in water - dissolved						Base II Duplicate II %RPD		
Date prepared	-			31/03/2 009	[NT]	[NT]	LCS-W1	31/03/20
Date analysed	-			31/03/2 009	[NT]	ΙΝΤ]	LCS-W1	31/03/20
Arsenic-Dissolved	µg/L	1	Metals.22 ICP-MS	<1.0	[N1"]	[NT]	LCS-W1	110%
Cadmium-Dissolved	µg/L	0.1	Metals,22 ICP-MS	<0.10	ĮМŢ	[NT]	LCS-W1	112%
Chromium-Dissolved	µg/L	1	Metals.22 ICP-MS	<1.0	[NT]	[F/I]	LCS-W1	106%
Copper-Dissolved	μg/L	1	Metals.22 ICP-MS	<1.0	[NT]	[TN]	LCS-W1	107%
Load-Dissolved	μg/L	1	Metals.22 ICP-MS	<1.0	[NT]	ĮΝΤ]	LCS-W1	116%
Mercury-Dissolved	µ9/L	0.5	Metals.21 CV-AAS	<0.50	[NT]	[NT]	LCS-W1	97%
Nickel-Dissolved	µ g /L	1	Metals.22 ICP-MS	<1.0	(NT)	[NT]	LCS-W1	1079

Envirolab Reference: Revision No:

27715 R 00



Client Reference: E22758K, Wahroonga QUALITY CONTROL UNITS PQI, METHOD Blank Duplicate Sm# Duplicate results Spike Sm# Spike % Recovery HM in water - dissolved Base II Duplicate II %RPD Zinc-Dissolved 1 Metals.22 <1.0 µg/L [NT] [NT] LCS-W1 104% ICP-MS QUALITY CONTROL UNITS PQL METHOD Blank Duplicate \$m# Duplicate results Spike % Spike Sm# Recovery Miscellaneous Inorganics Base II Duplicate II %RPD Date prepared 27/03/0 [NT] [NT] LC\$-1 27/03/0 Date analysed 27/03/0 [NT] [NT] LCS-1 27/03/E 9 pH Units рΗ LAB.1 [NT] [NT] [NT] LCS-1 100% **Electrical Conductivity** pS/cm 1 LAB.2 <1.0 [NT] [NT] LCS-1 102%



Report Comments:

Asbestos was analysed by Approved Identifier: Not applicable for this job

INS: Insufficient sample for this test NT: Not tested PQL: Practical Quantitation Limit <: Less than >: Greater if RPD: Relative Percent Difference NA: Test not required LCS: Laboratory Control Sample NR: Not requested

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike: A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample): This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria:

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the sample batch were within laboratory acceptance criteria.

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SVOC and speciated phenols.





Envirolab Services Pty Ltd A8N 37 112 535 645 12 Ashley St Chatswood NSW 2067 ph 02 9910 6200 fax 02 9910 6201 enquiries@envirolabservices.com.au www.envirolabservices.com.au

SAMPLE RECEIPT ADVICE

Client:

Environmental Investigation Services ph: 02 9888 5000 PO Box 976 Fax: 02 9888 5001

North Ryde BC NSW 1670

Attention: Todd Flore

Sample log in details:

Your reference: E22758K, Wahroonga

Envirolab Reference: 27715

Date received: 27/03/09

Date results expected to be reported: 3/04/09

Samples received in appropriate condition for analysis:

No. of samples provided

3 Waters

Turnaround time requested:

Standard

Temperature on receipt

Cool

Cooling Method:

Ice Pack

Comments:

Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples.

Contact details:

Please direct any queries to Aileen Hie or Jacinta Hurst

ph: 02 9910 6200 fax: 02 9910 6201

email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au

Envirolab Services Pty Ltd	Pty Ltd										FROM: Environmental Investigation Services
12 Ashley St, Chatswood 2087 Phone: (02) 9910 6200	wood 2087 00		SAN	SAMPLEA	AND CHAIN OF CUSTODY FORM	OF C	USTC	DY FOR	[]	<u></u>	Rear 115 Wicks Road Macquarie Park NSW 2113
Fax: (02) 9S10 6201 Attention: Alleen											Phone; (02) 9888 5000 Fax: (02) 9888 5004
Date Results Required:	d Standard	£ 29	EIS Job Number: E	2275	SK				Sheet 1	-	Contact: Todd Hore
Project: Proposed Up	al Upgrade	2 Pop						Tests Required	p ₆		Sample Preservation; In esky on ice
Sampler: BAP	,					s)					
Date Time Sampled Sampled	Location	Sample/ Borehole Number	Sample Container	PID (ppm/ Odeur)	Sample Description	нвауу тета ХЭТ8/Н9Т	AOC®	OB / Hd			Comments/Detection Limits Required
30.5.42		МЫ 3	2.4 1 L Amber Bottle 2.8 BTEX Vials HDPE Plastic Bottle		Destat.	$\times \times$		_			
2		410H	-1			$\stackrel{\sim}{\times}$					Envirolab Services 12 Ashley St 12 Ashley St 12 Ashley St
<u>ر</u>		DUP A	11		- →	$\times \times$					100 NO. 27715
											Time received: 2 Tenesived by: 3 Tenesic Couldment of the country of the countr
											Sacurity: Intact Broken Print
					:	-					
Relinquished By:	Date: Time: Tare: Time:	72	3/09 Received By:		The C	All anal	llysis PQ	Ls to ANZE	CC (2000)	Detectic	Remerks: All analysis PQEs to ANZECC (2000) Detection Limits Picaso

.



Envirolab Services Pty Ltd
ABN 37-112-535-645
12 Ashley St Chatswood NSW 2067
ph 02-9910-6200 fax-02-9910-6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS 27715-A

Client:

Environmental Investigation Services

PO Box 976 North Ryde BC NSW 1670

Attention: Todd Hore

Sample log in details:

Your Reference: E22758K, Wahroonga

No. of samples: Additional Testing on 2 Waters

Date samples received: 27/03/09
Date completed instructions received: 01/04/09

Analysis Details:

Please refer to the following pages for results, methodology summary and quality control data. Samples were analysed as received from the client. Results relate specifically to the samples as received. Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: 8/04/09
Date of Preliminary Report: Not issued Issue Date: 3/04/09

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Accredited for compliance with ISO/IEC 17025.

Tests not covered by NATA are denoted with ".

Results Approved By:

Jacinta/Hurst Operglions Manager



Miscellaneous Inorganics Our Reference: Your Reference Date Sampled Type of sample	UNITS	27715-A-1 MW3 27/03/2009 Water	27715-A-2 MW17 27/03/2009 Water
Date prepared	-	2/04/2009	2/04/2009
Date analysed	-	2/04/2009	2/04/2009
Calcium - Dissolved	mg/L	25	6.7
Magnesium - Dissolved	mg/L	6.6	15
Hardness by calculation	mgCaCO3 /L	89	77



Method ID	
Metals.20 ICP-AES	Determination of various metals by ICP-AES.
ICP-AEG	



QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Miscellaneous Inorganics						Base II Duplicate II %RPD		
Date prepared	-		-	02/04/0	[NT]	[NT]	LCS-W1	02/04/0
Date analysed	-			02/04/0 9	[NT]	[NT]	LCS-W1	02/04/0
Calcium - Dissolved	mg/L	0.03	Metals.20 ICP-AES	<0.030	[NT]	[TM]	LCS-W1	112%
Magnesium - Dissolved	mg/L	0.03	Metals,20 ICP-AES	<0.030	[NT]	[NT]	LÇS-W1	111%
Hardness by calculation	mgCaCO s/L	1	Metals.20 ICP-AES	<1	[NT]	[NT]	(NR)	[NRi

Envirolab Reference: 27715-A Revision No:

R 00



Report Comments:

Asbestos was analysed by Approved Identifier: Not applicable for this job

INS: Insufficient sample for this test NT: Not tested PQL: Practical Quantitation Limit <: Less than >: Greater to RPD: Relative Percent Difference NA: Test not required LCS: Laboratory Control Sample NR: Not requeste

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike: A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

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Matrix Spikes and LCS: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for

SVOC and speciated phenols is acceptable. Surrogates: 60-140% is acceptable for general organics and 10-140% for

SVOC and speciated phenols.



Aileen Hic

From: Todd Hore [thore@jkgroup.net.au]

Sent: Wednesday, 1 April 2009 10:44 AM

To: Aileen Hie

Subject: 27715

EIS

ENVIRONMENTAL INVESTIGATION SERVICES

A division of Jeffery & Kalauskas Pty Ltd ABN 17 003 550 801

Aileen,

1 -2

Could you please schedule hardness analysis on the two water samples (MW3 and MW17) already in your custody for the EIS project E22758K (Envirolab ref: 27715).

Regards,

For and on behalf of ENVIRONMENTAL INVESTIGATION SERVICES

Todd Hore

Senior Environmental Engineer

115 Wicks Road, Macquarie Park, NSW, 2113 PO Box 976, North Ryde BC, NSW, 1670

Tel: 02 9888 5000 Fax: 02 9888 5004

email: thore@jkgroup.net.au Web: www.jkgroup.net.au

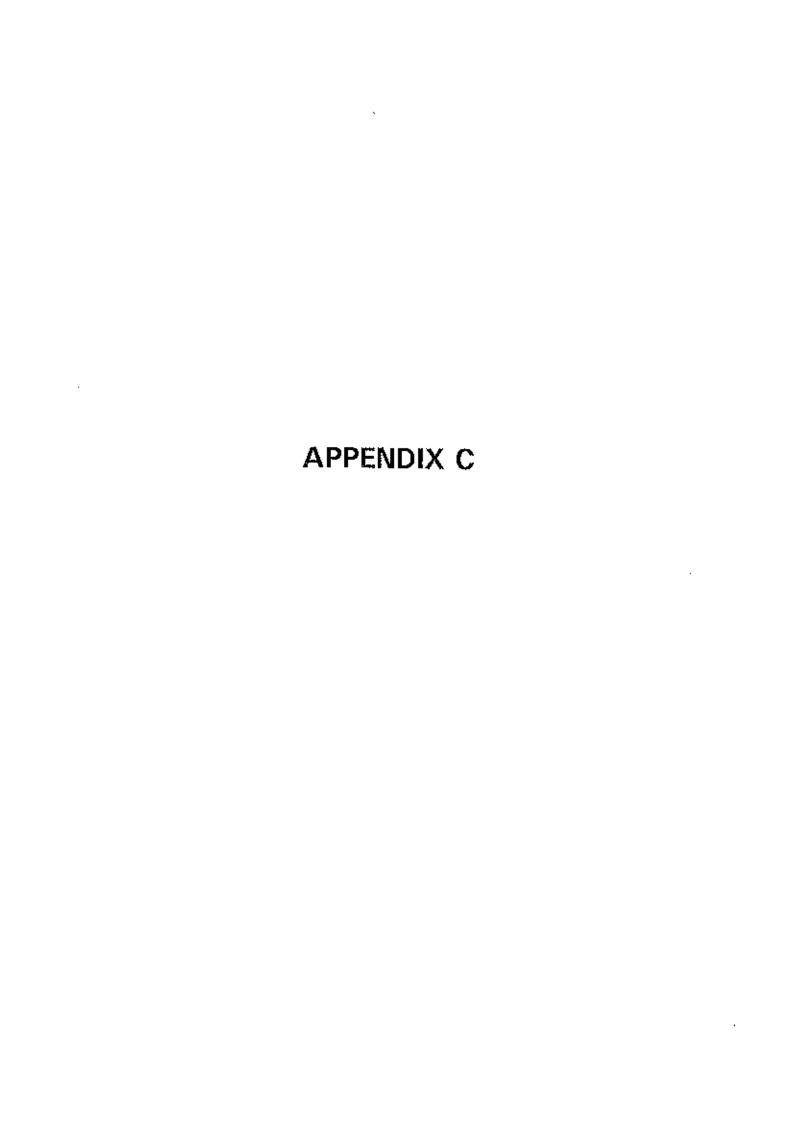
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Envirolab Ref: 27715A

Due: 814109

Std TIA.



Print Map Page 1 of 1

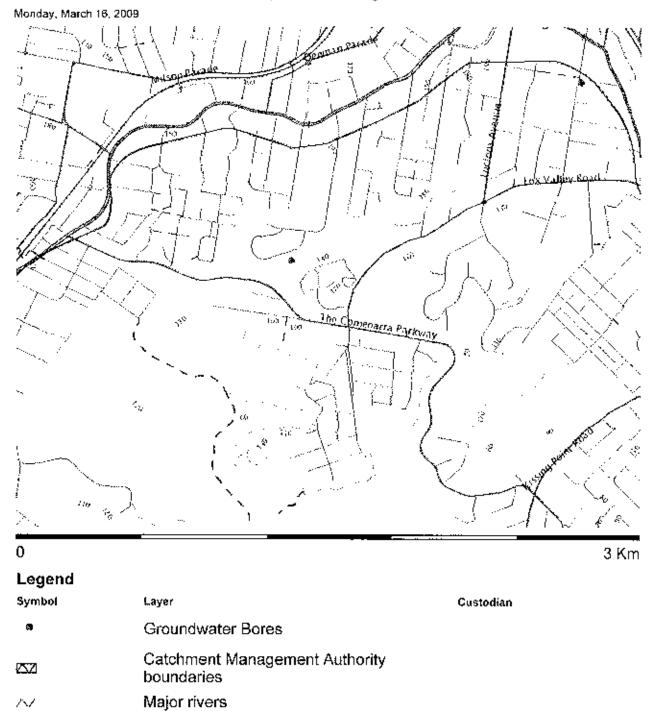
E22758K Wahroonga

✓ Primary/arterial road
✓ Motorway/freeway

Railωaγ

Runnvay
Contour
Background

Map created with NSW Natural Resource Atlas - http://www.nratlas.nsw.gov.au



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Topographic base map

Groundwater Works Summary

For information on the meaning of fields please see Glossary Document Generated on Monday, March 16, 2009

Print Report

Works Details Site Details Form A Licensed Construction Water Bearing Zones Drillers Log

Work Requested -- GW107929

Works Details (top)

GROUNDWATER NUMBER GW107929

LIC-NUM 10BL165856

AUTHORISED-PURPOSES RECREATION (GROUNDWATER)
INTENDED-PURPOSES RECREATION (GROUNDWATER)

WORK-TYPE Bore

WORK-STATUS

CONSTRUCTION-METHOD Rotary

OWNER-TYPE

COMMENCE-DATE

COMPLETION-DATE 2005-03-18
FINAL-DEPTH (metres) 180.00
DRILLED-DEPTH (metres) 180.00

CONTRACTOR-NAME

DRILLER-NAME

PROPERTY AUSTRALASIAN CONFERENCE ASSOC.

GWMA -

GW-ZONE -

SALINITY 1800.00
YIELD 0.10

Site Details (top)

REGION 10 - SYDNEY SOUTH COAST

RIVER-BASIN

AREA-DISTRICT

CMA-MAP

GRID-ZONE

SCALE

ELEVATION

ELEVATION-SOURCE

NORTHING 6265935.00
EASTING 323621.00
LATITUDE 33 43' 55"
LONGITUDE 151 5' 46"

GS-MAP

AMG-ZONE 56

COORD-SOURCE

REMARK

Form-A (top)

COUNTY CUMBERLAND
PARISH GORDON
PORTION-LOT-DP 62 1017514

Licensed (top)

COUNTY CUMBERLAND
PARISH GORDON
PORTION-LOT-DP 62 1017514

Construction (top)

Negative depths indicate Above Ground Level;H-Hole;P-Pipe;OD-Outside Diameter; ID-Inside Diameter;C-Cemonted;SL-Slot Length;A-Aperture;GS-Grain Size;Q-Quantity

HOLE- NO	PIPE- NO	COMPONENT- CODE	COMPONENT- TYPE	DEPTH- FROM (metres)	DEPTH- TO (metres)	OD (mm)	ID (mm)	INTERVAL	DETAIL
1		Hole	Hole	0.00	2.50	206			Down Hole Hammer
1		Hole	Hole	2.50	180.00	162			Down Hole Hammer
1	1	Casing	Steel	-0.50	5.50	162	152.4		C:1-5.5m; Driven into Hole
1	1	Casing	PVC Class 9	-0.50	23.50	140			Screwed and Glued; Suspended in Clamps

Water Bearing Zones (top)

FROM- DEPTH (metres)	TO- DEPTH (metres)	THICKNESS (metres)	ROCK- CAT- DESC	8-10-	D- D- L	YIELD	TEST- HOLE- DEPTH (metres)	DURATION	SALINITY
73.00	74.50	1.50				0.15	78.00	0.25	1188.00
117.00	117.20	0.20		58.00		0.25	120.00	0.25	1715.00
133.00	135.00	2.00				0.25	150.00	0.25	1677.00
153.00	156.50	3.50				0.10	180.00	0.25	1800.00

Drillers Log (top)

FROM	TO	THICKNESS	DESC	GEO-MATERIAL COMMENT
0.00	16.00	16.00	SANDSTONE L./B	
16.00	17.00	1.00	SANDSTONE, FRACTURED, SOFT	

17.00	35.00	18.00	SANDSTONE GREY
35.00	35.50	0.50	SHALE
35.50	73.00	37.50	SANDSTONE GREY
73.00	74.50	1.50	SANDSTONE FINE QUARTZ
74.50	83.00	8.50	SANDSTONE GREY
83.00	88.00	5.00	\$AND\$TONE D/G
88.00	92.00	4.00	SANDSTONE GREY
92.00	92.50	0.50	SANDSTONE F/Q
92.50	117.00	24.50	SANDSTONE D/G
1 17.00	117.20	0.20	SANDSTONE FRACTURED
117.20	124.00	6.80	SANDSTONE GREY
124.00	124.50	0.50	SANDSTONE F/Q
124.50	133.00	8.50	SANDSTONE GREY
133.00	135.00	2.00	SANDSTONE / QUARTZ
135.00	153.00	18.00	SANDSTONE GREY
153.00	156.50	3.50	SANDSTOHNE FINE QUARTZ
156.50	180.00	23.50	SANDSTONE GREY

Warning To Clients: This raw data has been supplied to the Department of Infrastructure, Planning and Natural Resources (DIPNR) by drillers, licensees and other sources. The DIPNR does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.







Licence summary

Your search for: LGA - KU-RING-GAI

Summary of Licence No: 6546

Licence holder: SYDNEY ADVENTIST HOSPITAL LIMITED

Trading as: SYDNEY ADVENTIST HOSPITAL

Premises: SYDNEY ADVENTIST HOSPITAL

185 FOX VALLEY ROAD WAHROONGA 2076 **LGA:** Ku-ring-gai **Catchment:** Hawkesbury

Administrative fee: \$1,520.00

Status of licence: No longer in force

Licence type: Premises

Activity type: *Hazardous, Industrial or Group A Waste Generation or Storage

Licence review: Completed 14 Feb 05

Applications

Number Application type Current status Date received

140899 Licence Transfer Approved 06 Nov 01

Notices

Number Issue Date Notice type

 1047037
 27 Apr 05
 \$ 58 Licence Variation

 1044478
 15 Feb 05
 \$ 58 Licence Variation

Annual Return Information

Start date	End date	Date received	Non-compliance	LBL data
01 Dec 06	30 Nov 07	29 Jan 08	No	n/a
01 Dec 05	30 Nov 06	22 Jan 07	No	n/a
01 Dec 04	30 Nov 05	24 Jan 06	No	n/a
01 Dec 03	30 Nov 04	23 Dec 04	No	n/a
01 Dec 02	30 Nov 03	12 Jan 04	No	n/a
01 Dec 01	30 Nov 02	17 Jan 0 3	No	n/a
01 Dec 00	30 Nov 01	29 Jan 02	No	n/a
01 Dec 99	30 Nov 00	15 Jan 01	No	n/a
I				

1 April 2009

ADVANCE LEGAL SEARCH PTY LIMITED

(ACN 077 067 068) ABN 49 077 067 068

P.O. Box 149 Yagoona NSW 2199 Telephone: +612 9754 1590 Mobile: 0412 169 809 Facsimile: +612 9754 1364 Email: alsearch@optusnet.com.au

18 March 2009

ENVIRONMENTAL INVESTIGATION SERVICES PO Box 976 NORTH RYDE BC NSW 1670

Attention: Todd Hore

RE:

Sydney Adventist Hospital Fox Valley Road, Wahroonga

Current Search

Folio Identifier 621/1128314 (title attached)
DP 1128314 (plan attached)
Dated 16 March 2009
Registered Proprietor:
AUSTRALASIAN CONFERENCE ASSOCIATION LIMITED

Title Tree Lot 621 DP 1128314

Folio Identifier 621/1128314

Folio Identifier 62/1017514

Folio Identifier 53/880017

Folio Identifier 14/834969

Certificate of Title Volume 8447 Fol 83

Certificate of Title Volume 6572 Fol 212

Certificate of Title Volume 5964 Fol 61

See Notes (a), (b), (c) & (d)

(b) (a) (c) CTVol 4506 Folio 44 CTVol 5011 Folio 245 CTVol 3067 Folio 88 CTVol 2827 Folio 182 CTVol 313 Folio 146 CTVol 2112 Folio 104 *** *** (ai) (aii) CT 97 - 141 CT 98 - 64 **** ****

(d)

Certificate of Title Volume 4785 Polio 192

Summary of proprietor(s) Lot 621 DP 1128314

Year

Proprietor

-	(Lot 621 DP 1128314)
2008 - todate	Australasian Conference Association Limited
(2008 todate)	(various commercial leases see Folio Identifier 621/1128314)
(2008 - todate)	(various commercial leases see Historical Folio Identifier 621/1128314)
:	(Lot 62 DP 1017514)
2000 – 2008	Australasian Conference Association Limited
(2000 - 2008)	(various commercial leases see Folio Identifier 62/1017514)
(2000 – 2008)	(various commercial leases see Historical Folio Identifier 62/1017514)
	(Lot 53 DP 880017)
1998 2000	Australasian Conference Association Limited
(1998 – 2000)	(various commercial leases see Historical Folio Identifier 53/880017)
]	(Lot 14 DP 834969)
1994 - 1998	Australasian Conference Association Limited
(1994 1998)	(various commercial leases see Historical Folio Identifier 14/834969)
	(Portion 30 and part Portions 28, 29 & 31 and 1 Acre 2 Roods 4 1/4
	Perches grant, Parish Gordon & South Colah - Area 158 Acres 0
	Roods 25 Perches - CTVol 8447 Fol 83)
1963 – 1994	Australasian Conference Association Limited
	(Portion 30 and part Portions 28, 29 & 31 and 1 Acre 2 Roods 4 1/2
	Perches grant, Parish Gordon & South Colah - Area 159 Acres 1
	Roods 37 1/4 Perches - CTVol 6572 Fol 212)
1952 - 1963	Australasian Conference Association Limited
(1955 – 1958)	(lease to Walter George Fredericks, storekeeper & Margaret Lucy
	Fredericks, of part)
	(Portion 30 and part Portions 28, 29 & 31 and 1 Acre 2 Roods 4 1/2
:	Perches grant, Parish Gordon & South Colah – Area 159 Acres 1
<u>.</u>	Roods 37 1/2 Perches - CTVol 5964 Fol 61)
1949 – 1952	Australasian Conference Association Limited

See Notes (a), (b), (c) & (d)

Note (a)

	(Part Portions 29 & 30 Parish Gordon - Area 74 Acres 0 Roods 3 1/4
	Perches - CTVol 4506 Fol 44)
1931 1949	Australasian Conference Association Limited
	(Part Portions 29 & 30 Parish Gordon - Area 75 Acres 1 Roods 18
:	Perches - CTVol 2827 Fol 182)
1918 1931	Australasian Conference Association Limited

See Notes (ai) & (aii)

Note (ai)

	(Part Portion 30 Parish Gordon - Area 9 Acres 0 Roods 33 Perches - CTVol 97 Fol 141)
1903 – 1918	The Sydney Sanitarium and Benevolent Association Limited
1901 - 1903	Frederick Lacey Sharp, business manager
	John Allen Burbery, business manager
	Daniel Kness, physician
}	Eugene William Farnsworth, minister of gospel
	Merritt Gardiner Kellogg, architect
1890 – 1901	Joshua Reubon Jolinson, minor

Note (aii)

	(Part Portions 29 & 30 Parish Gordon – Area 71 Acres 2 Roods 21 Perches – CTVol 98 Fol 64)
1903 1918	The Sydney Sanitarium and Benevolent Association Limited
1901 - 1903	Frederick Lacey Sharp, business manager
	John Allen Burbery, business manager
	Daniel Kness, physician
	Eugene William Farnsworth, minister of gospel
	Menitt Gardiner Kellogg, architect
1895 – 1 <u>9</u> 01	Elizabeth Sharpe Evans, widow
1870 1895	Richard Battleff Evans, labourer

Note (b)

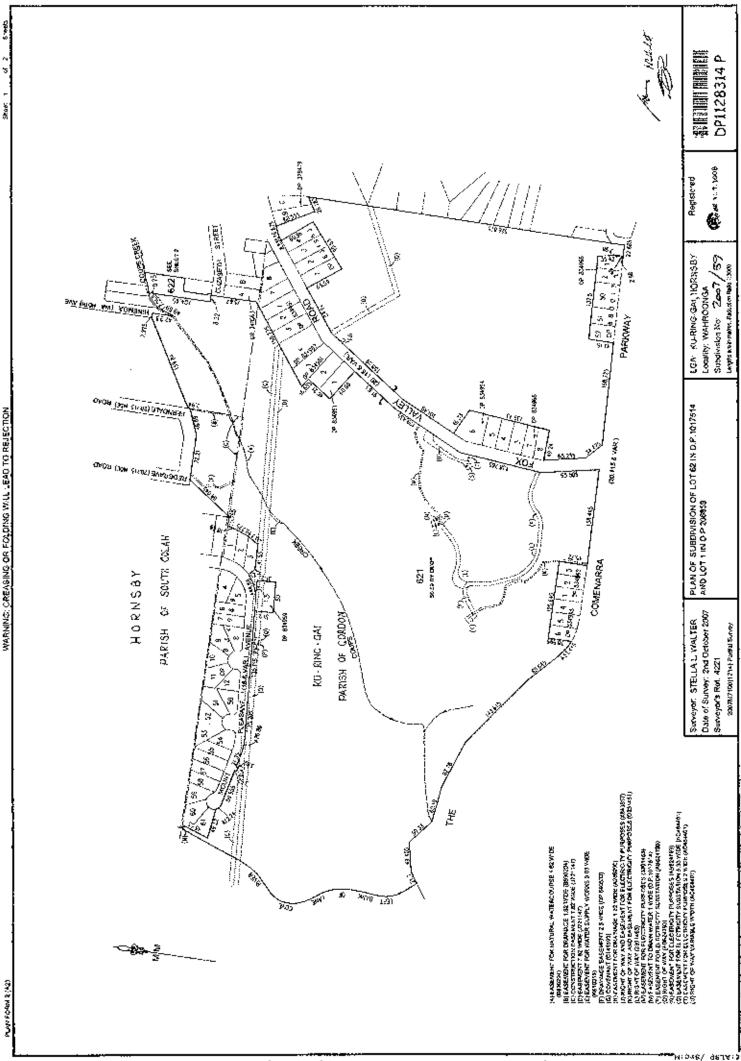
	(Part Portion 31 Parish Gordon - Area 54 Acres 2 Roods 31 1/2
	Perches - CTVol 5011 Fol 245)
1941 1949	Australasian Conference Association Limited
1939 - 1941	Perpetual Trustee Company (Limited)
	(Portion 31 Parish Gordon - Area 72 Acres - CTVol 313 Fol 146)
1935 1939	Perpetual Trustee Company (Limited)
1885 - 1935	Austin Torange, esquire
1877 - 1885	Alexander Bowman, grantee

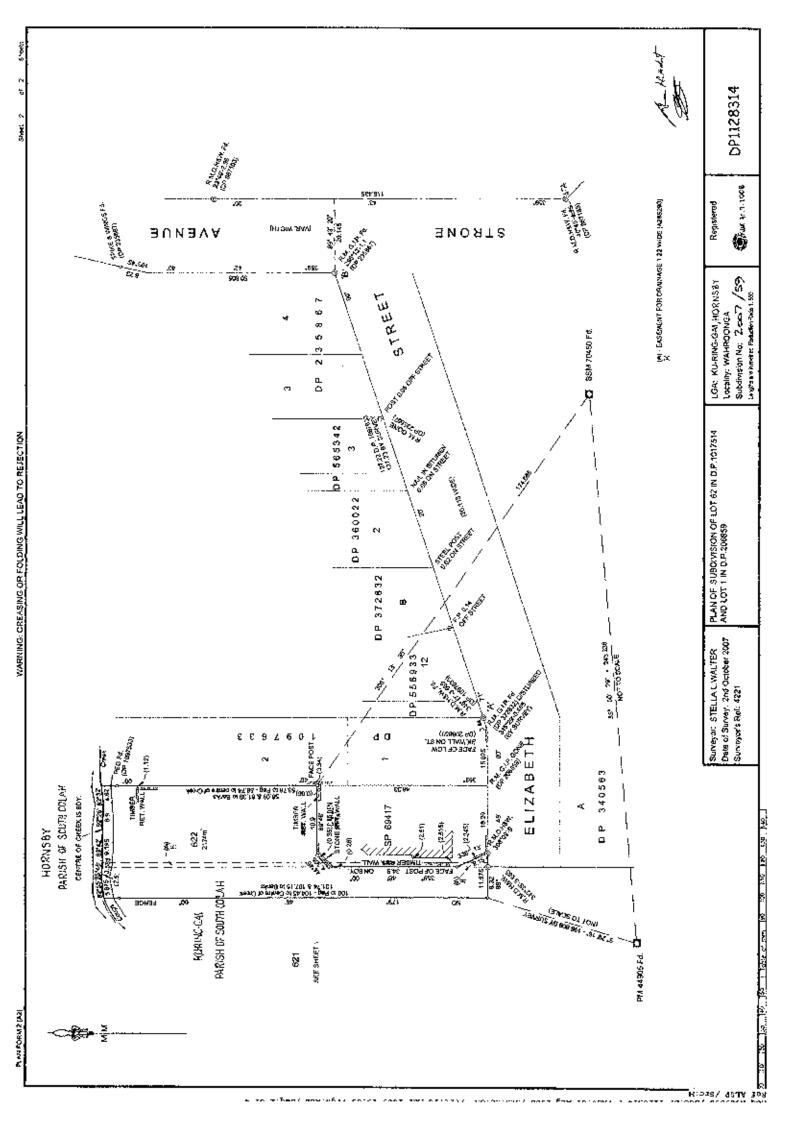
Note (c)

	(Part Portions 29 & 30 Parish Gordon - Area 16 Acres 3 Roods 18
	Perches - CTVol 3067 Fol 88)
1920 - 1949	Australasian Conference Association Limited
	(Part Portions 29 & 30 Parish Gordon - Area 17 Acres 0 Roods 10 1/2
	Perches - CTVol 2112 Fol 104)
1910 1920	Alexander Gordon Waugh, orchardist

Note (d)

		(1 Acre 2 Rood 4 1/2 Perches, Grant of Closed - CTVol 4785 Fol 192)	1
ĺ	1936 - 1949	Australasian Conference Association Limited	1



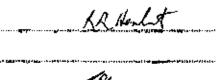


DEPOSITED PLAN ADMINISTRATION SHEET

SIGNATURES, SEALS and STATEMENTS of intention to dedicate public roads, to create public reserves, drainage reserves, easements, restrictions on the use of land or positive covenants.



USTRALASIAN CONFERENCE ASSOCIATION L'MITEC as hereunte affixed purcuant to a resolution of the Boare i management in the presence of:



Members of



Use PLAN FORM 6A for additional certificates, signatures, seals and statements

Crown Lands NSW/Western Lands Office Approval 1.....in approving this plan certify (Authorised Officer) that all necessary approvals in regard to the allocation of the land shown herein have been given Signature:.... Dale:

Subdivision Certificate I certify that the provisions of s.109J of the Environmental Planning and Assassment Act 1979 have been satisfied in relation to:

the proposed SUBDIVISION set out herein (insert 'subdivision' or 'new road')

 Authorised Person/Control Manager/Accredited Cortifier Consent Authority: Ku - Ring - GAI Date of Encursement Subdivision Certificate no: File no:

Delete whichever is inapplicable.



DP1128314 S



Registered: 31.7.2008

Title System: Torrens Purpose: Subdivision

PLAN OF SUBDIVISION OF LOT 62 IN D.P.1017514 AND LOT(IN D.P.206859

LGA: KU-RING-GAL, HORNS BY

Locality: WAHROONGA

Parish: GORDON, SOUTH COLAH

County: CUMBERLAND

Surveying Regulation, 2006

I, Stella Louise Walter

of Mepstead & Associates P.O.Box 208 Pennant Hills NSW a surveyor registered under the Surveying Act, 2002, certify that the survey represented in this plan is accurate, has been made in accordance with the Surveying Regulation, 2006 and was completed on: 5th October 2007

The survey relates to Lot 622 only. Lot 621 is compiled

(specify the land actually surveyed or specify any land shown in the plan that is not the subject of the survey)

Signature SELIG Wollton Daled: 12,19,07
Surveyor registered under the Surveying Act, 2002

Datum Line: A-B D.P.1097633..... Type: Urban

Plans used in the preparation of survey/compilation

D.P.7348 D.P.206859 D.P.1017514 D.P.1097633

D.P.235867

S.P.69417

D.P.311336

D.P.360022

D.P.372832

D.P.867183

(if insufficient space use Plan Form 6A annexure sheet)

SURVEYOR'S REFERENCE:4221 2007M7(1214) Partial Survey

Req:R589598 /Doc:DP 1128314 P /Rev:01-Aug-2008 /Sts:SC.OK /Prt:16-Mar-200 Reg:B5SPp4Strim /Seq:4 of 4

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PLAN OF	DP1128314
"	
	Registered: 31.7. 2008
Subdivision Certificate No:	Date of Endorsement:
certify that the person(s) signing opposite, with whom I m personally acquainted or as to whose identity I am	Certified correct for the purposes of the Real Property Act 1900 by
therwise satisfied, signed this instrument in my presence.	the Mortgagee.
ignature of Witness:	Signature of Attorney:
Name of Wimess: BRANDON LEIGH QUIN Address of Wimess: Level 23, 66 Eagle Street BRISBANE QLD 4000	Attorney's Name: DAVID GEORGE ROBERTS Partner of Cooper Grace Ward Lawyers Signed for and on behalf of FirstMac Finance Pty L ACN 123 871 698
	Power of Attorney - Book 4512 - No. 136

20 MAK 2009

ADVANCE LEGAL SEARCH PTY LIMITED

(ACN 077 067 068) ABN 49 077 067 068

P.O. Box 149

Yagoona NSW 2199

Telephone:

+612 9754 1590

Mobile:

0412 169 809

Facsimile:

+612 9754 1364

Email: alsearch@optusnet.com.au

18 March 2009

ENVIRONMENTAL INVESTIGATION SERVICES

PO Box 976

NORTH RYDE BC NSW 1670

Attention: Todd Hore

RE:

Sydney Adventist Hospital Fox Valley Road, Wahroonga

Current Search

Folio Identifier 621/1128314 (title attached)
DP 1128314 (plan attached)
Dated 16 March 2009
Registered Proprietor:

AUSTRALASIAN CONFERENCE ASSOCIATION LIMITED

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Folio Identifier 621/1128314

Folio Identifier 62/1017514

Folio Identifier 53/880017

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Certificate of Title Volume 8447 Fol 83

Certificate of Title Volume 6572 Fol 212

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See Notes (a), (b), (c) & (d)

(a)	(b)	(c)
CTVol 4506 Folio 44		CTVol 5011 Folio 245	CTVol 3067 Folio 88
CTVol 28	27 Folio 182	CTVol 313 Folio 146	CTVol 2112 Folio 104
(ai)	(aii)	***	***
CT 97 – 141	CT 98 - 64		
***	****		

(d)

Certificate of Title Volume 4785 Folio 192

Summary of proprietor(s) Lot 621 DP 1128314

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(1955 – 1958)	(lease to Walter George Fredericks, storekeeper & Margaret Lucy
	Fredericks, of part)
	(Portion 30 and part Portions 28, 29 & 31 and 1 Acre 2 Roods 4 1/2
	Perches grant, Parish Gordon & South Colah – Area 159 Acres 1
	Roods 37 ½ Perches - CTVol 5964 Fol 61)
1949 – 1952	Australasian Conference Association Limited

See Notes (a), (b), (c) & (d)

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:	(Part Portions 29 & 30 Parish Gordon - Area 74 Acres 0 Roods 3 1/4	
<u>'</u>	Perches - CTVol 4506 Fol 44)	
1931 – 1949	49 Australasian Conference Association Limited	
:	(Part Portions 29 & 30 Parish Gordon - Area 75 Acres 1 Roods 18	
	Perches - CTVol 2827 Fol 182)	
1918 – 1931	Australasian Conference Association Limited	

Sec Notes (ai) & (aii)

Note (ai)

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	Merritt Gardiner Kellogg, architect
1890 – 1901	Joshua Reubon Johnson, minor

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1895 – 1901	Elizabeth Sharpe Evans, widow
1870 – 1895	Richard Battleff Evans, labourer

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Note (b)

	(Part Portion 31 Parish Gordon – Area 54 Acres 2 Roods 31 ½ Perches – CTVol 5011 Fol 245)
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1910 - 1920	Alexander Gordon Waugh, orchardist

Note (d)

	(1 Acre 2 Rood 4 1/2 Perches, Grant of Closed - CTVol 4785 Fol 192)
1936 - 1949	Australasian Conference Association Limited



Information Provided Through Advance Legal Search Pty Ltd Ph 0397541590 Fax: 0297541364

Title Search

LEAP Legal
An Approved LPI MSIF
Information Broker

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: 621/1128314

SEARCH DATE	TIME	EDITION NO	DATE
16/3/2009	7:54 PM	1	31/7/2008

DAND

LOT 62: IN DEPOSITED PLAN 1128314
AT WARROOMGA
LOCAL GOVERNMENT AREA BORNSBY, KU-KING-GAT
PARISH OF GORDON COUNTY OF CUMBERLAND
PARISH OF SOUTH COLAR COUNTY OF CUMBERLAND
TITLE DIAGRAM DP1128314

FIRST SCHEDULE

AUSTRALASIAN CONFERENCE ASSOCIATION LIMITED

SECOND SCHEDULE (53 NOTIFICATIONS)

______ RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S) 1 COVENANT AFFECTING THE PART SHOWN SO BURDENED IN THE 2 TITLE DEAGRAM. 3 B830204 EASEMENT FOR NATURAL WATERCOURSE 1.82 METRE(S) WIDE AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM B\$30204 EASEMENT FOR DRAINAGE 1.82 METRE(S) WIDE AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM J221147 EASEMENT 7.62 METRS(S) WIDE AFFECTING THE PART(S) 5 SHOWN SO BURDENED IN THE TITLE DIAGRAM J221147 CONSTRUCTION DASEMENT 7.62 METRE(S) WIDE AFFECTING 6 THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM 7 K610315 EASEMENT FOR WATER SUPPLY WORKS 3.05 METRE(S) WIDE AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM DRAINAGE PASEMENT 2.5 METRE(S) WIDE AFFECTING THE 8 DP640633 PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM X843857 LEASE TO SYDNEY COUNTY COUNCIL OF SUBSTATION PREMISES NO 6435 TOGETHER WITH RIGHT OF WAY & MASEMENT FOR ELECTRICITY PURPOSES AS SHOWN IN PLAN WITH X843857. EXPIRES 31.12.2037 10 0251457 LEASE TO SYDNEY ELECTRICITY OF SUBSTATION PREMISES NO.7241 TOGETHER WITH RIGHT OF WAY & EASEMENT FOR ELECTRICITY PURPOSES AS SHOWN IN PHAN WITH 0251457. EXPIRES 28.2.2045 LEASE TO EMERGY AUSTRALIA OF SUBSTATION PREMISES 1 ^ 3301465 NO.7484 TOGETHER WITH RIGHT OF WAY & EASEMENT SHOWN IN

PLAN WITH 3301465. EXPIRES 31.8.2046

END OF PAGE 1 - CONTINUED OVER

EIS - Wahroonga ADSP

LAND AND PROPERTY INFORMATION NEW SOUTH WALLES - TITLE SEARCH

FOLIO: 621/1128314

PAGE 2

SECOND SCHEDULE (53 NOTIFICATIONS) (CONTINUED)

12 5431960 LEASE TO OPTUS MOBILE PTY LIMITED OF THE PART SHOWN HATCHED IN PLAN WITH 5451960, COMMENCES 31/3/2004, EXPIRES: 30/3/2009.

- 13 5431961 LEASE TO OPTUS MOBILE PTY LIMITED OF THE PART SHOWN HATCHED IN PLAN WITH 5431961. COMMENCES 31/3/2009. EXPIRES: 30/3/2014.
- 14 OP1017514 EASEMENT TO DRAIN WATER 1 METRE(S) WIDE AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
- 15 701524) LEASE TO HUTCHISON 3G AUSTRALIA PTY LIMITED (SEE 8688491) OF THE AREA SHOWN RATCHED IN PLAN WITH 7015241, EXPIRES: 10/2/2005, OPTION OF RENEWAL: 5 YEARS WITH 2 FURTHER PERIODS OF 5 YEARS.
- 16 9789667 LEASE TO BRAMJO PTY LIMITED (SEE AC327610) OF SUITE 307, THE SAN CLINIC, 185 POX VALLEY ROAD, WARROONGA, EXPIRES: 30/6/2008. OPTION OF RENEWAL: 5 YEARS WITH A FURTHER PERIOD OF 5 YEARS.
- 17 9789668 LEASE TO CHILDS FAMILY KINDERGARTENS LIMITED (SEE AC399613) OF "THE POON CHILDCARE CENTRE", 185 FOX VALLEY ROAD, WAHROONGA, EXPIRES: 31/3/2008, OPTION OF RENEWAL: 5 YEARS.
- 18 9903470 DEASE TO STUART G KIRKHAM OF SUITE 508, THE SAN CLINIC, 185 FOX VALLEY ROAD, WAHROONGA, EXPIRES: 22/7/2008. OPTION OF RENEWAL: 5 YEARS.
- 19 9923248 LEASE TO GRAHAM DOUGLAS SELLARS OF SOITE 507, THE SAN CLINIC, 185 FOX VALLEY ROAD, WAHROONGA, EXPIRES: 9/7/2008, OPTION OF RENEWAL: 5 YEARS.
- 20 9923249 LEASE TO MAXIVEND STY LTD OF SUITE 601A, THE SAN CLINIC, 185 FOX VALLEY ROAD, WAHROONGA, EXPIRES: 27/7/2008, OPTION OF RENEWAL: 5 YEARS.
- 21 9923250 LEASE TO JOHN JAMES BURKE & DAVID MOHARG OF SUITE 306, THE SAN CLINIC, 185 FOX VALLEY ROAD, WAHROONGA. EXPIRES: 15/7/2010. OPTION OF RENEWAL: TWO TERMS OF 7 YEARS BACH.
- 22 9923251 LEASE TO MELISSA DOORAN OF SUITE 504, THE SAN CLINIC, 185 FOX VALLEY ROAD, WARROUNGA. EXPIRES: 9/7/2008. OPTION OF RENEWAL: 5 YEARS.
- 23 9923252 LEASE TO MADELRINE GIUTRONICH OF SUITE 6010, THE SAN CLINIC, 185 FOX VALLEY ROAD, WARROUNGA. EXPIRES: 27/7/2008. OPTION OF RENEWAL: 5 YEARS.
- 24 9923253 LEASE TO WESTERN SYDNEY ORTHOPAEDIC ASSOCIATES PTY
 LIMITED OF SULTE 601B, THE SAN CLINIC, 185 FOX VALLEY
 ROAD, WARROONGA, EXPIRES: 27/7/2008, OPTION OF RENEWAL:
 5 YEARS.
- 25 9966048 DEASE TO THOMAS 2 GAVAGHAN 2TY & NICHIGO CARDIOLOGY 25 PTY LTD OF SUITE 502, THE SAN CLINIC, 185 FOX VALLEY 25 ROAD, WARROONGA, EXPIRES: 9/7/2008, OPTION OF RENEWAL:

END OF PAGE 2 - CONTINUED OVER

EIS ~ Wahroonga ALSP

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOL	10: 621/11	.28314 PAGE 3
	OND SCHEDO	SLE (53 NOTIFICATIONS) (CONTINUED)
	9985692	5 YEARS. LEASE TO EUR PTY LIMITED OF SULTE 511, THE SAN CLINIC, 185 FOX VALLEY ROAD, WARROONGA, EXPIRES: 9/7/2008. OPTION OF RENEWAL: 5 YEARS.
27	9985693	LEASE TO THOMAS DEAN PTY LIMITED OF SUITE 506, THE SAN CLINIC, 185 FOX VALLEY ROAD, WARROONGA, EXPIRES: 3/8/2008. OPTION OF RENEWAL: 5 YEARS.
28	9985694	
29	AA7460	
30	AA7461	LEASE TO HODIBO PTY LTD OF SUITE 304, THE SAN CLINIC, 185 FOX VALLEY ROAD, WAHROONGA, EXPIRES: 26/8/2008. OPTION OF RENEWAL: 5 YEARS.
	AE1.51	.039 TRANSFER OF LEASE AA746% LESSEE NOW YEW TRZE
31	AA31754	MANAGEMENT PTY LIMITED LEASE TO SONE RECONSTRUCTION PTY LIMITED OF SUITE 601D, THE SAN CLINIC, 185 FOX VALLEY ROAD, WARROOMGA. EXPIRES: 27/7/2008. OPTION OF RENEWAL: 5 YEARS.
32	AA07015	
33	AA95145	LEASE TO DR ARTHUR RICHARDSON FTY LTD OF SUITE 503, THE SAN CLINIC, 185 FOX VALLEY RD, WAHROONGA, EXPIRES: 9/7/2008. OPTION OF RENEWAL: 5 YEARS.
34	AA95146	
35	AA177677	
36	AA302548	LEASE TO NORTHSIDE PHYSIO NO.2 PTY LIMITED OF SUITE 602, THE SAN CLINIC, 185 FOX VALLEY RD, WAHROONGA. EXPIRES: 19/10/2008. OPTION OF RENEWAL: 5 YRS.
37	AA462063	
38	AA478792	LEASE TO GREGORY BRUCE BENNETT (SEE AB940557) OF SUITE 604, THE SAN CLINIC, 185 FOX VALLEY RD, WAHROONGA, EXPIRES: 3/8/2008. OPTION OF RENEWAL: 5 YEARS.
39	A327704	

END OF PAGE 3 - CONTINUED OVER

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LAND AND PROPERTY INFORMATION NEW SOUTH WALLS - TITLE SEARCH

FOLIO: 620/1028314

PAGE 4

SECOND SCHEDULE (53 NOT)FICATIONS) (CONTINUED)

30/6/2008. OPTION OF RENEWAL: 5 YEARS.

- 40 AB624793 EASEMENT FOR ELECTRICITY SUBSTATION AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
- 41 AB624793 RIGHT OF WAY AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
- 42 AB624793 EASEMENT FOR ELECTRICITY PURPOSES AFFECTING THE FART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
- 43 AB766634 LEASE TO VODAFONE NETWORK PTY LIMITED OF PART OF THE ROOF SHOWN HATCHED IN PLAN WITH LEASE U990412 BUT EXCLUDING THE AREA SHOWN HATCHED IN PLAN WITH PARTIAL SURRENDER OF LEASE \$532722, EXPIRES: 30/3/2009, OPTION OF RENEWAL: 5 YEARS.
- 44 AC352261 LEASE TO JUG WAYSON PTY LTD OF SUITE 402 THE SAN CLINIC 185 FOX VALLEY ROAD WARROONGA. EXPIRES: 31/12/2010. OPTION OF RENEWAL: 2 X 5 YEARS.
- 45 AC352262 LEASE TO HOAM PTY LTD OF SUITE 401 THE SAN CLINIC 185 FOX VALLEY ROAD WARROONGA. EXPIRES: 31/12/2010. OPTION OF RENEWAL: 2 X 5 YEARS.
- 46 AC366463 LEASE TO SPECIALIST ONCOLOGY SERVICES PTY LTD OF SUITES 301 AND 302, "THE SAN CLINIC", 185 FOX VALLEY ROAD, WARROONGA. EXPIRES: 31/10/2010. OPTION OF RENEWAL: 5 YEARS WITH A FURTHER PERIOD OF 5 YEARS.
- 47 AC366464 LEASE TO NORTHERN SURGICAL ONCOLOGY PTY LTD OF SUITE 404, "THE SAN CLINIC", 185 FOX VALLEY ROAD, WAHROONGA. EXPIRES: 31/10/2010. OPTION OF RENEWAL: 5 YEARS WITH A FURTHER PERIOD OF FIVE YEARS.
- 48 AC366465 LEASE TO SYDNEY UROLOGICAL ASSOCIATES FTY LTD OF SUITE 406, "THE SAN CLINIC", 185 FOX VALLEY ROAD, WAHROONGA. EXPIRES: 31/10/2010. OPTION OF RENEWAL: 5 YEARS WITH A FURTHER PERIOD OF 5 YEARS.
- 49 AC484401 EASEMENT FOR ELECTRICITY SUBSTATION PURPOSES 5.33

 METRE(S) WIDE AFFECTING THE PART(S) SHOWN SO BURDENED
 IN THE TITLE DIAGRAM
- 50 AC484401 EASEMENT FOR ELECTRICITY PORPOSES 2 METRE(S) WIDE AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
- 51 AC484401 RIGHT OF WAY VARIABLE WIDTH AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
- 52 AD900986 LEASE TO TELSTRA CORPORATION LIMITED OF THE PART SHOWN HATCHED IN PLAN WITH AD900986. EXPIRES: 30/6/2012. OPTION OF RENEWAL: 5 YEARS.
- 53 AD990739 LEASE TO SIMON TAYLOR OF SUITE 303 OF "THE SAN CLINIC", 185 FOX VALLEY ROAD, WARROONGA, EXPIRES: 19/3/2011. OPTION OF RENEWAL: 5 YEARS WITH A FURTHER PERIOD OF 5 YEARS.

END OF PAGE 4 - CONTINUED OVER

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LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: 622/1128314

PAGE 5

NOTATIONS

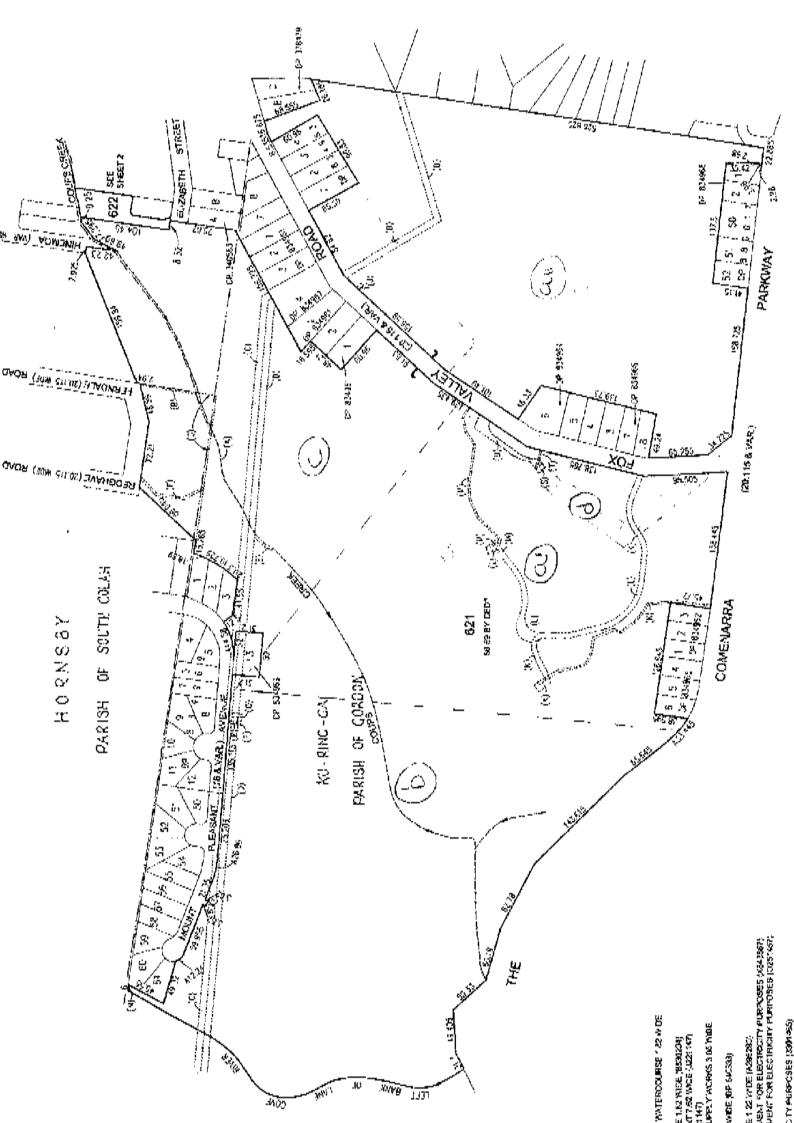
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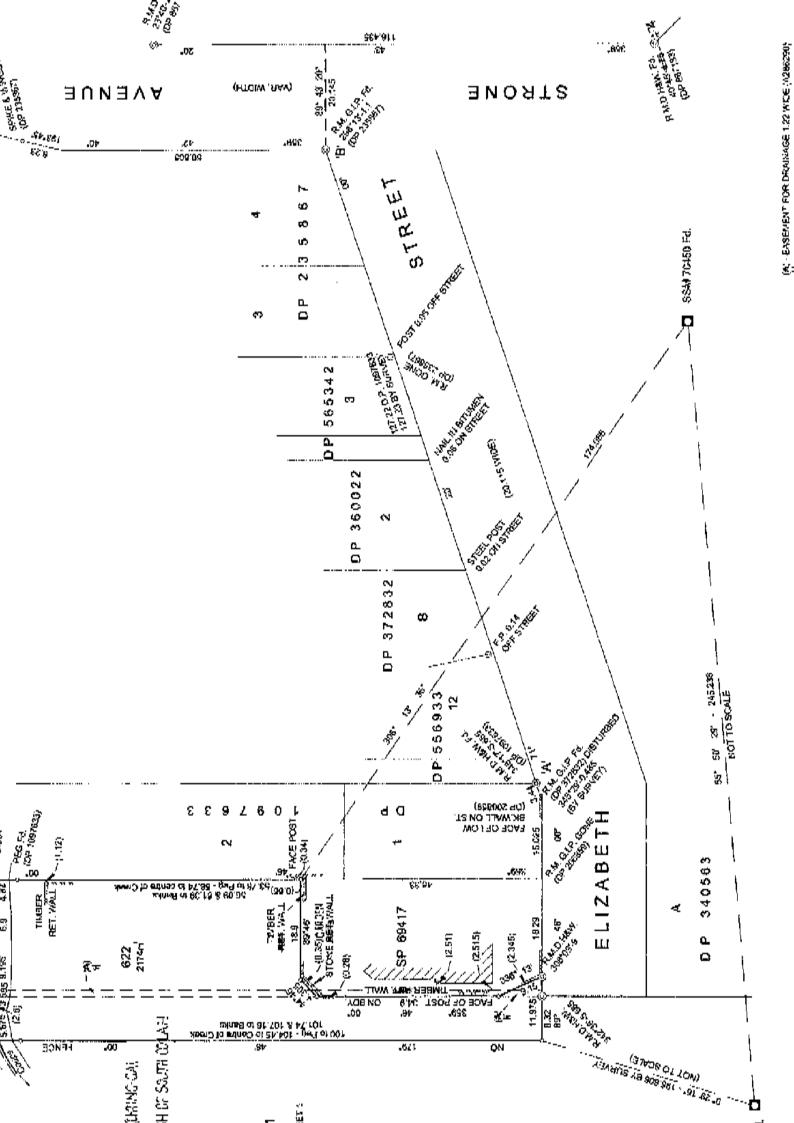
UNREGISTERED DEALINGS: NIL

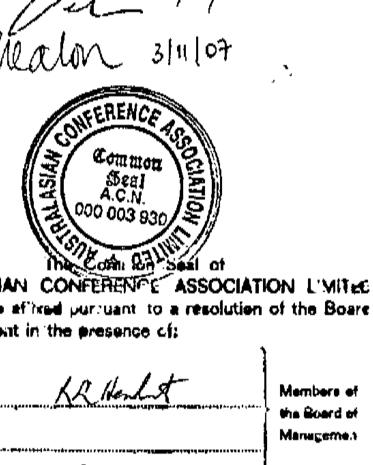
*** END OF SEARCH ***

EIS ~ Wahroonga ALSF

ANY ENTRIES PRECEDED BY AN ASTERISK DO NOT APPEAR ON THE CHRRENT EDITION OF THE E. WASHING, THE INFORMATION APPEARING UNDER NOTATIONS HAS NOT DEEM FORMALLY
RECORDED IN THE REGISTER ADVANCE LEGAL SPARCH PTY LID CUSTIFIES THAT THE SECTION PROVIDED IN THIS DOCUMENT HAS BEEN PROVIDED ELECTRONICALLY BY THE
REGISTRAR-GENERAL IN ACCORDANCE WITH SECTION PROPERTY ACT, 1950









Use PLAN FORM 6A ional certificates, signatures, seats and statements

Lands NSW/Western Lands Office Approvalin approving this plan certify

erised Officer) ssary approvats in regard to the allocation of the land n have been given

Subdivision Certificate

the provisions of s.109J of the Environmental Planning and

Act 1979 have been satisfied in relation to:

SUBDIVISION set out herein (insert 'subdivision' or 'new road')

norised Person/General Manager/Accredited Cortifier thority:

Registered: (31.7.2008)

Title System: Torrens

Purpose: Subdivision

PLAN OF SUBDIVISION OF LOT 62 IN D.P.1017514 AND LOTHN D.P.206859

LGA: KU-RING-GAI, HORNS BY

Parish: GORDON; SOUTH COLA.H

County: CUMBERLAND

Locality: WAHROONGA

Surveying Regulation, 2006

I, Stella Louise Walter of Mepstead & Associates P.O.Box 208 Pennant Hill: a surveyor registered under the Surveying Act, 2002, certify survey represented in this plan is accurate, has been made

accordance with the Surveying Regulation, 2006 and was o on: 5º October 2007 The survey relates to Lot 622 only. Lot 621 is compiled

(specify the land actually surveyed or specify any land sho plan that is not the subject of the survey).

Stua Walter Dated 12.1 Signature ... Surveyor registered under the Surveying Act, 2002

Datum Line: A-B D.P.1097633..... Type: Urban

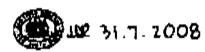
Plans used in the preparation of survey/comp

D.P.7348 D.P.1017514

D.P.1097633 D.P.206859 S.P.69417 D.P.235867

D.P.311336

D.P.360022



Certificate No:

Date of Endorsement:

at the person(s) signing opposite, with whom I ally acquainted or as to whose identity I am attisfied, signed this instrument in my presence.

Certified correct for the purposes of the Real Property Act 1900 by the Mortgagee.

of Witness:

itness: BRANDON LEIGH QUIN

Witness: Level 23, 66 Eagle Street

BRISBANE QLD 4000

1/0000

Attorney's Name: DAVID GEORGE ROBER'
Partner of Cooper Grace Ward Lawyers

Signed for and on behalf of FirstMac Finance

ACN 123 871 698

Signature of Attorney:

Power of Attorney - Book 4512

- No. 136

Information Provided Through Advance Legal Search Pty Ltd Ph 0297541590 Fee: 0297541364

Historical Search

LEAP Legal An Approved LPI MSB' Information Broker

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE 16/3/2009 7:56PM

FOLIO: 621/1128314

First Title(s): VOL 313 FOL 146 OLD SYSTEM

Prior Title(s): 62/1017514

*** END OF SEARCH ***

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Information Broker

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

FOLIO: 62/1017514

First Title(s): VOL 313 FOL 146 VOL 4785 FOL 192

OLD SYSTEM

Prior Title(s): 53/880017

Recorded	Number	Type of Instrument	C.T. Issue
2/11/2000	DP1017514	DEPOSITED PLAN	FOLIO CREATED CT NOT ISSUED
9/1/2001	7015241	LEASE	
12/2/2001	7154495	LEASE	EDITION 1
29/3/2001	7398269	TRANSFER OF LEASE	
11/7/2002 11/7/2002	8680107 8688491	LEASE TRANSFER OF LEASE	EDITION 2
15/7/2003 15/7/2003	9789667 9789668	lease lease	EDITION 3
22/8/2003	9903470	LEASE	EDITION 4
29/8/2003 29/8/2003 29/8/2003 29/8/2003	9923248 9923249 9923250 9923251	LEASE LEASE LEASE LEASE	
29/8/2003 29/8/2003	9923252 9923253	LEASE LEASE	EDITION 5
12/9/2003	9966048	LEASE	EDITION 6
18/9/2003 18/9/2003 18/9/2003	9985692 9985693 9985694	lease Lease Lease	
25/9/2003 25/9/2003	AA7022 AA7460	DEPARTMENTAL DEALING LEASE	EDITION 7
25/9/2003	AA7461	LEASE	EDITION 8
2/10/2003	AA31754	LEASE	EDITION 9
22/10/2003	ла87015	LEASE	EDITION 10
27/10/2003	AA95145	LEASE	

END OF PAGE 1 - CONTINUED OVER

EIS - Wahroonga ALSP PRINTED ON 16/3/2009

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

16/3/2009 7:57PM

FOLIO: 62/1	017514		PAGE	2
Recorded	Number	Type of Instrument	C.T. Issue	
27/10/2003	AA95146	LEASE	EDITION 11	
20/11/2003	AA177677	LEASE	EDITION 12	
7/1/2004	AA302548	LEASE	EDITION 13	
2/3/2004	AA462063	LEASE	EDITION 14	
15/6/2004	AA478792	LEASE	EDITION 15	
18/10/2004	AB27704	LEASE	EDITION 16	
18/4/2005	DP1080220	DEPOSITED PLAN		
18/7/2005	AB624793	GRANT OF EASEMENT	EDITION 17	
27/9/2005	AB766634	LEASE	EDITION 18	
	AB856407 AB856408	DETERMINATION OF LEASE LEASE	EDITION 19	
2 5/ 1 1/2005	AB940557	TRANSFER OF LEASE		
2/12/2005	AB958505	LEASE	EDITION 20	
24/5/2006	AC327610	TRANSFER OF LEASE		
	AC352261 AC352262		EDITION 21	
23/6/2006	AC399613	TRANSFER OF LEASE		
	AC366463 AC366464 AC366465	Lease Lease Lease	EDITION 22	
14/8/2006	DP1101280	DEPOSITED PLAN		
20/9/2006 20/9/2006	AC484401 AC610039	GRANT OF EASEMENT DEPARTMENTAL DEALING	EDITION 23	
19/2/2007	AC947037	DETERMINATION OF LEASE	EDITION 24	

END OF PAGE 2 - CONTINUED OVER

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LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

16/3/2009 7:57PM

FOLIO: 62/1017514 PAGE 3

Recorded	Number	Type of Instrument	C.T. Issue
21/5/2008	AD968359	DEPARTMENTAL DEALING	<u></u>
21/5/2008	AD900986	LEASE	EDITION 25
2/6/2008	AD990739	LEASE	EDITTON 26
31/7/2008	DP1128314	DEFOSITED PLAN	FOLIO CANCELLED

*** END OF SEARCH ***

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LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

FOLIO: 53/880017

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First Title(s): OLD SYSTEM VOL 313 FOL 146

VOL 4785 FOL 192

Prior Title(s): 14/834969

Recorded	Number	Type of Instrument	C.T. issue
18/9/1998	DP880017	DEPOSITED PLAN	FOLIO CREATED EDITION 1
10/12/1998	5431958 5431959 5431960 5431961	LEASE	EDITION 2
19/1/1999			EDITION 3
20/1/1999 20/1/1999			EDITION 4
29/4/1999	5587384	CHANGE OF NAME	
18/11/1999	6250590	LEASE	EDITION 5
2/11/2000	DP1017514	DEPOSITED PLAN	FOLIO CANCELLED RESIDUE REMAINS
7/11/2000	7204401	DEPARTMENTAL DEALING	

*** END OF SEARCH ***

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Any entries preceded by an asterisk do not appear on the current edition of title warning the information appearing finder notations has not been formally recorded in the register. Advance legal search pty Ltd certifes that the information contained in this document has been provided electronically by the registrar-general in accordance with section 998(2) of the real property act, 1900.

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LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

16/3/2009 8:00PM

FOLIO: 14/834969

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First Title(s): OLD SYSTEM VOL 313 FOL 146

VOL 4785 FOL 192

Prior Title(s): VOL 8447 FOL 83

Recorded	Number	Type of Instrument	C.T. Issue
7/2/1994	DP834969	DEPOSITED PLAN	FOLIO CREATED EDITION 1
22/2/1995	Ų990412	LEASE	EDITION 2
25/5/1995	0251457	LEASE	EDITION 3
22/6/1995 22/6/1995 22/6/1995	0324983	AMENDMENT: LOCAL GOVT AREA AMENDMENT: PARISH-COUNTY DEPARTMENTAL DEALING	
18/8/1997	3301465	LEASE	EDITION 4
16/9/1998	DP880017	DEFOSITED PLAN	folio cancelled
3/11/1998	5370510	DEPARTMENTAL DEALING	

*** END OF SEARCH ***

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Appn. Nov. 756, 12129, thisti and 57671 (as to marta)

Reference to Sirula vol. 4765 701. 199

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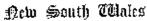
hererowe to Last Certificates

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CHOCK CO. 100719/98

val. 5264 ma 61

AUSTRALA HAN CHA ESSEUS ASSECTATION COLLTED, by Vartue or Crown Orant Volume 1705 Police 192 up : Certificales of Title Volume 2574 Folice 37, Volume 26.0 Mario 21, Volume 1967 Mario 38, Volume 3966 Mario 73, Volume 1836 Police 44 to 47 Sections, Volume 1949 Mario 68 and Volume, 500% white 24% now suggested for consolidation is now the proprietor of an Satute in Med Single, safejest nevertheless to the reservations and romatitions, if any contained in the Grante berginafter reserved to, wit also subject to mean empuricamen, liens, and interests on the notified hareon, in that piece of land although partly in the Funicipality of Ku-ring-gal and partly in the Shire of Hornaly Partiches of Serden and Sucth Colub and County of Cumberland, containing One hundred and fifty mine acres one read thirty mine and one half percises or thereakents as shown in the plan herson and therein edged red and also shown as to part in plan amered to instrument of Transfer No. A6172)O Being lot 16 in Deposited Fiew No. 7250, late 1 to 8 inclusive in Deposited Fiew No. 7892, late 45 to 55 anchonive in Caponited Plan Joury Co. 15006, Lat 3 in plan amount to Instrument of Transcer Jo. 2013069, Late A. B. and C in plan amount to Opter No. Osiga) and land adjoining. Thich estil parce of kurd was exiginally granted by the Grown treats act forth in the following ვიულძოვი - - -

SOLEONA PERSONAL TO -- -

20st/ah	tal of Pertion	Here of France	Eate of Cr	ъц ъц	Origi Refer	rencu	
	14. 29A. (Portion 29 of 27.)	Thomas Rothwell	9th May	1857	-	-	
•	490, 2r. (Fortign 30 of 170.)	Therac Robles II	9th hay	1897	-	-	
(36)(6)(6)	Pt. 72e. (Portion CJ of Pt.)	Alternider Forman	oth Septem	gre1677	213	146	
•	1a, 2r. hyp. 81-	Austrolication Conference Association Addition	31st August	1936	4/35	192	
South Collabo) Ft. 385a. (Portion 26 c. 85.)	Section Berry Borne	7 KM Aysil	lejé	-	-	

gagapting out of the mane place of land the reside colored brown in the place harven the arcen of thick are not included in the above alphed area of 150 north 2 year 39, serebet.

In mathematic whose of a more increasing signed by name and officed by Heal, this will a security, 17

Expres in the previous of A. A. Heren.



[3003-164010] -- 1.12022-50

Managet the reservations and conditions contained to the Greats above referred to are reservation; 34 the Spant of 1 cere 2 resen Will perchas Period of Common of minerals and in the Grant of \$20 server (Portion 25 or Parish) Parish or South Polish or all mines or role and or obliver.

you has beginned of description throughout to the downest of the Chieve by Hornary over the pieces of lead each (fort with colored blue in plan hereon and when the undered subcreames these by blue Bane au pales acressione.

impartment of Presider No. CD41695 compositing fota 48 to 57 inclusive on beganated Plan 15:46 contains a covenage agreement

ens dealgration in the Collecting words:-

"And the transfered for Stocky its successors and easigns cover-Tanta with the transferror its macressors and anxious that any "main building eracted as any age los hereby transformal shall be "eccustracted of brick or stone or brick and stone with claim and For tited roof and shall post and be of the value of not less. There Cir landing panels (CCO) and that has not then one were "building shall be exected upon any one low mereby transported "west that way such main beliefung shall be precise and less than

"greaty fore back from the alignment of the atreet to which the "Said lots)mye m frontêgo. .

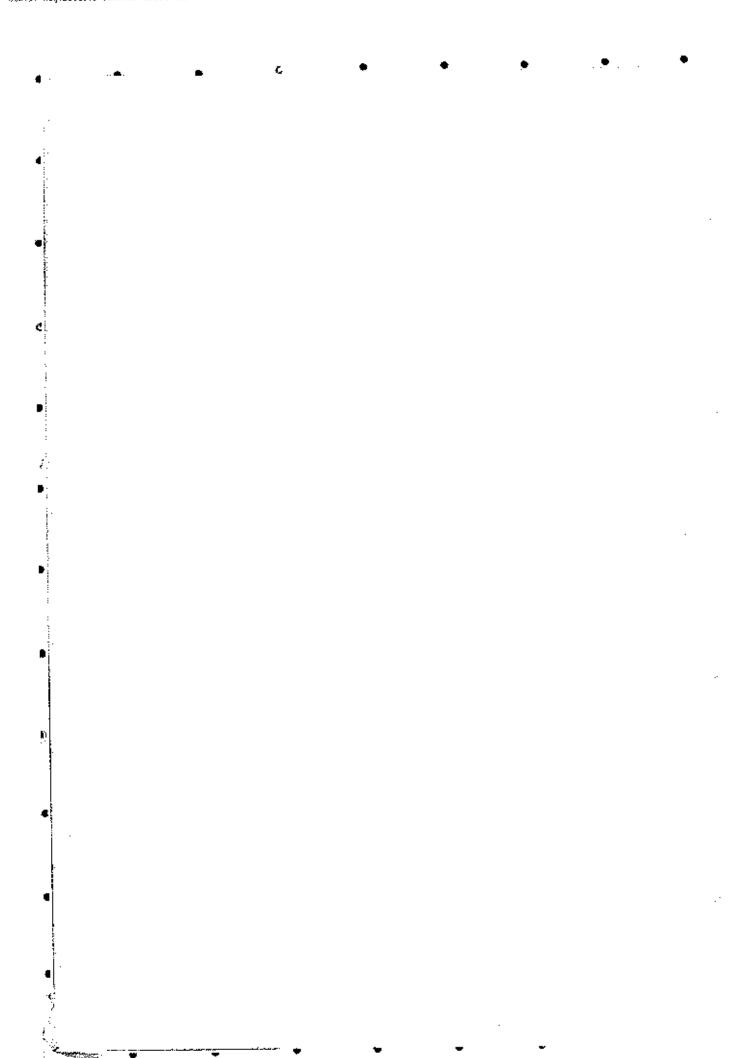
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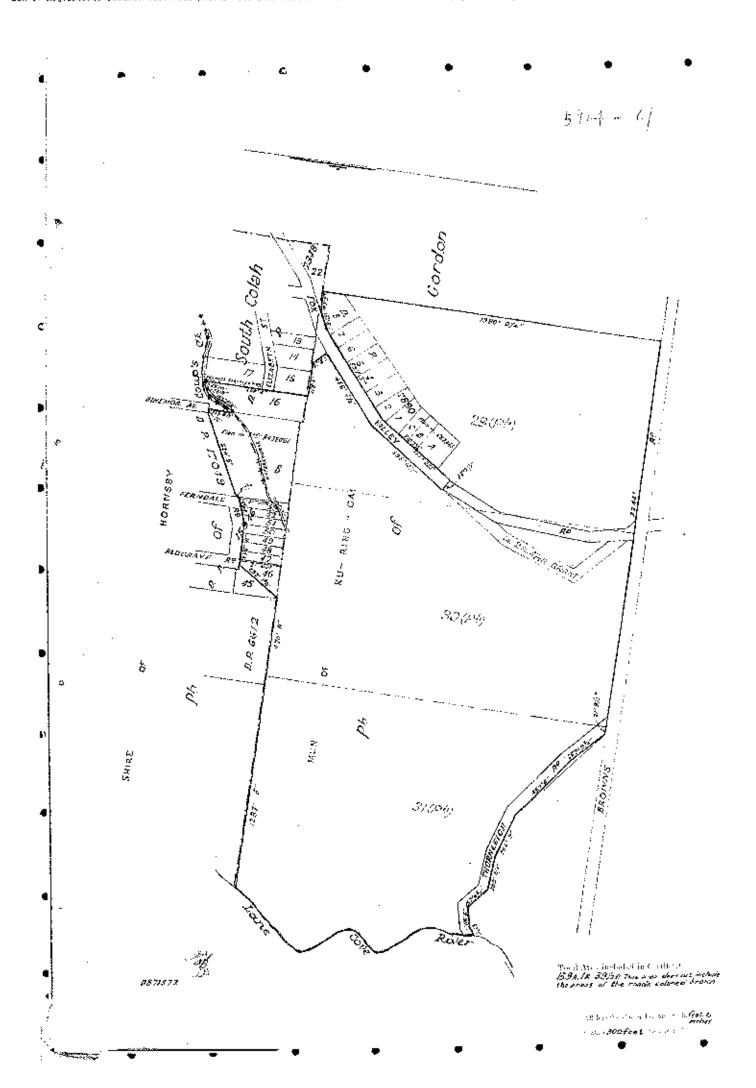
"And in is Breaky agreed and declared that:- : :

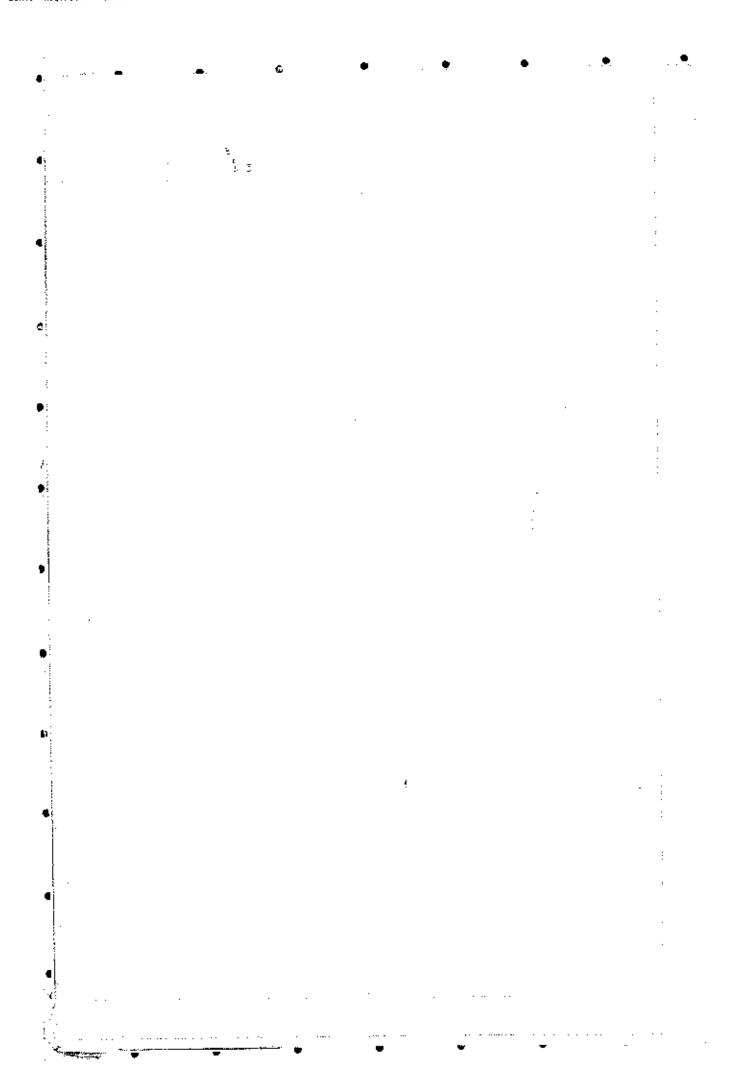
- "(g) The Jane to which the baseful of the bloom coverants is dintended to be apparetraped in the whole of the land exception in "Espaid ted piss: No.15946 other than the land hereby teams'erred. $f(\mathfrak{p})$. The limit which is no by adequat to the Pandan of the above Tookungata is the land keveta described.
- "(a) The above community or pay of them may be released varied Pay modificavith the numerous of the soid transferrar inc

"appropriate of Φ and π in Φ

Reginteran Gerentia







120m. 1506. 250, 12129, 14620 and 17612 (an existed Acht South Wales. Reference to Last Certificates,

2 6467 173



ARTHALASING CONTESTING ASSOCIATION ADMITTED, framely see as to part under instrument of grandler no. 7680,00 and as to the other past by editud of Centificate of Title Volum 5864 tolto 61 now surrendered is now the proprietor of on Setate in Sec Cimple subject nevertheless to the remervations and conditions if any contained in the Grants berthualter referred to and also sudded to such encumberages likely and interpote se are notified herown in That Flere of Land minutedfin the Municipality of Kurring-Ent and partly in the Shire of Borneby Parkelies of Gordon and South Colon, and County of Camberland contenting one bundred and fifty nine acres one root thirty sayon and one quarier personne, or therestoute as shown in the plan baroon and therein edged red and also shown as to part in plan agreed to Dastruppit of wingsfor No. A\$17230 being not 16 in Deposited Plan Ho. 7348; Lote 1 to 7 inclusive in Deposited Flor No. 7850, Lote 46 to 53 inclusive to Deposited Plan No. 15906, Lot 9 in plan amend to Instrument of Trainfor No. 12,3001. Lots 4, 8 med 6 in plan amend to Usam No. 082543, Lots A; B and C to plan annexed to Order No. F680401 and land sejectating. Thich said seece of last was originally granted by the Crism Grants met forth in the following Schedule.

٠,							
	Porish :	Number of Parties	Here of Greeker		Date of Gra		- Greiginak Erlengade
: :	<u>.</u> -4,-, -2						ن جوء زير تركيب
٠.		Pt. 49s. (Portion 29 of Ph.)	Thomas Rothwell	i	9th Yey	1857	
٠.	Gozdan	19a. 2r. (Portion 30 or Ph.)	Thomas Sothwell	;	SUR HAY	1857	}- -
**		Pt. 72c. (Portion 51 of Ph.)	Alexander Bouman	:. ,	5th Soptoboor	1877	313 246
4	Article 🖟	la. 2r. 42p. Ct.	Australesian Conference Association Lindsed		Mot August	3936	4785; 192
. 29	with Colds	Pt. 320a. (Portion 28 of Fh.)	Shout! Renry Horne	:	7th April	1838	- -
	نـل			١.,,			. :::

Specifially, cut of the said piece of load the roads colored branch in the plan hereon the areas of which are not included in the above stated area of 159 ocres 1 rood 374 perchast.

The witness whereof I have becomes algues by mose and affixed to seal, this -

Strains in the presence of

: Pagintrer Concret.

WITHOUT SPECIAL TO

Aronest the tocarveylons sid ponditions contained in the Grents above referred to are reservations in the Great of 1 sars 2 roads 44 peroles (Parish of Gomes) of Minorels and in the Crant of 320; soren (Portion 28 of Parish) (Parish of South Colch) of all mines

lies, 12450200, Grant of Research for drainings to The Council of the Share of Normaly ever the paeces of land sects 6 feet wide colored blue in piet horses and along the natural vatercourse anom by a blus Aine in the plan hereon.

Magintrat Ceneral.

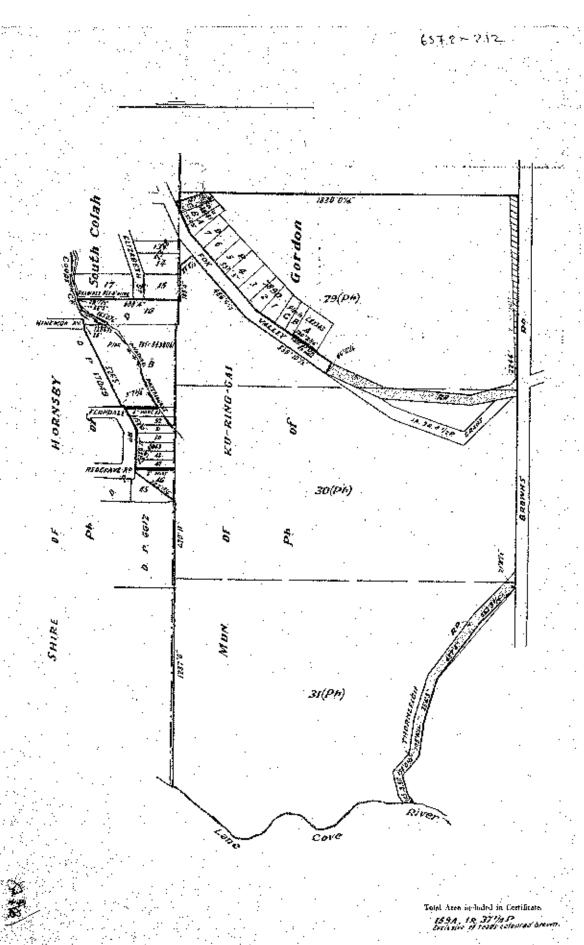
Lots 46 to 53 inclusive in Deponited Plan Ro. 159.6.

A F406.513	TA WAS FEE	om exam	Cater	15 \$ 44	953
going the cold	Zantra 15.4.	and Confine	ner Res	maradan da Ganada	inglid 4
And the last	tenfully of	A 500 14 160	4.0	11844-11/4	10,1: 14
TO SHOULD	agual.	1042 Fill	on threat	1605,16	en 155:
	∮,oʻdoch (-		من بن اقتعا	775
	0%	Well.	11,	7 6	
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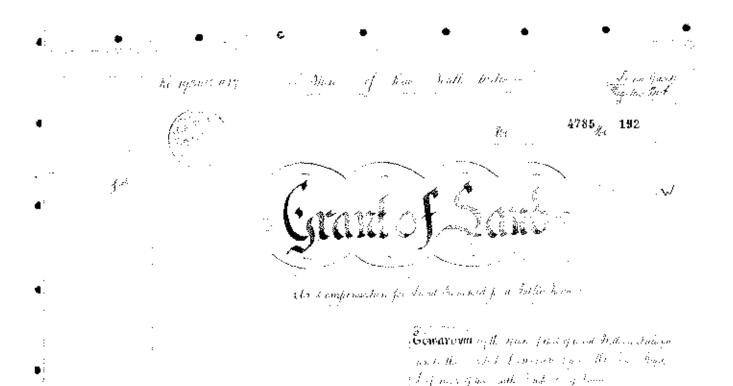
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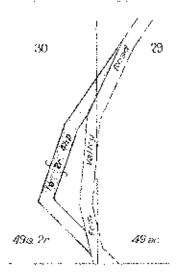
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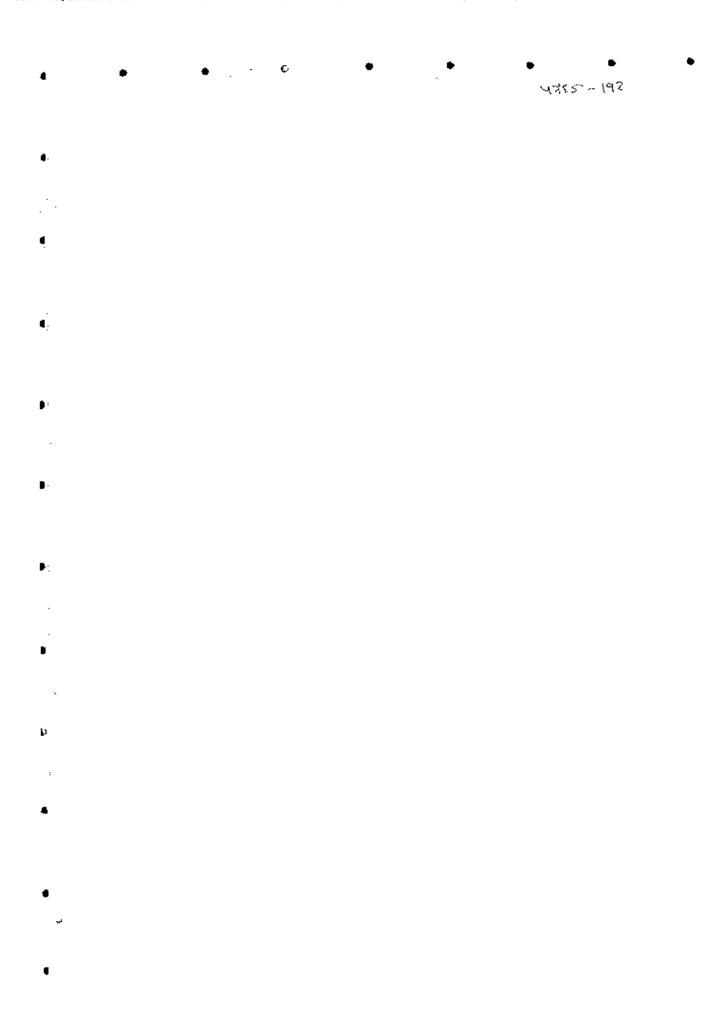
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C. for DAI 289/05 - Stage 2 - DEMOLS OF DEPA CODITIONS AND ALTERATIONS TO DIVISIONS OF WAPARK ASPORT AT SYDNEY ADVENTISE HOSPITAL CODITION OF A CANCER SUPPORT CENTRE MERCENCY CARE CIVIL WOARD 7 CONTEXES WORSTATION IN WARD 7 CONNEXES WORSTATION IN WARD 7 CONNEXES WORSTATION IN WARD 7 CONNEXES WORSTATION IN WARD 7	Wefurbishment of existing dimosl space to impro- connected development internal fibrat level 1 CAICC for DAI 295/06 - Stage 1 - Demolation Vic CL for DAI 1955/05 squedoy PCA, Philo Chain S CAICC for DAI 1955/05 squedoy PCA, Philo Chain S CAICC for DAI 1955/05 squedoy PCA, Philo Chain S CAICC for DAI 1957/05 squedoy tokers and in DAI 1957 A STONES areas 4879/11, ref- CODITIONS AND ATERATIONS TO DICELLING 3 CODITIONS AND ATERATIONS TO DICELLING 3 CODITION OF A CANCER SUPPORT CENTRE ARPORT AT SYDNEY ADVENTIST HOSPITAL CODITION OF A CANCER SUPPORT CENTRE ARPORT OF A CANCER SUPPORT CENTRE ARROSE OF A CANCER SUPPORT CENTRE ATERATION TO PLUMSER WISHOD IN CONTESTON OF EXISTING STORE LOWER GRO	Wefurbishment of existing dimosl space to impro- connected development internal fibrat level 1. 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Conviga	<u>_</u> [::	5272/97	P. INTERNAL FITOUT OF EXISTING BUILDING TO P.	
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. 3863.93	3736,93	3549,93	2043/01	2789/91	278891	2318,80	86.44.93	4503/04	+0.55/94	3,070,03	7,95,45	497/ES	12,64/85	112,94/05	11/94/ES	0)/95/00063	03/20/105	10	.02/00+15	02/98414	02/00/53	21+00/20	02/30411	02/38410	56,57	56/36	96/9	306/65/17	DA 1099,66	DA0083/03	:041135/86	-041103/03	0,40395,68	PC0249/05	PC2355/05	Rat2046/08
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L9 APR 2009

7 April 2009

Attention: Todd Hore

Environmental Investigation Services

PO Box 976

North Ryde NSW 1670

Dear Todd

RE SITE: 185 Fox Valley Road, Wahroonga NSW 2076

I refer to your site search request received on 1st April 2009 requesting information on a Licence to Keep Dangerous Goods on the above site.

Enclosed are copies of the documents that WorkCover NSW holds on Dangerous Goods Licence **35/014066** relating to the storage of dangerous goods at the above-mentioned premises, as listed on the Stored Chemical Information Database (SCID).

If you have any further queries, please contact WorkCover's Dangerous Goods Licensing staff on (02) 4321 5500.

Yours sincerely

Sue Waugh

A/C Senior Licensing Officer

Dangerous Goods Team

WorkCover. Watching out for you.

Depot No	Type of storage l		ii broces	5 Class Maximu 2 12500L	um Storage Co	;	1
D <u>G1</u>	Above Ground	Tank					
UN Number	Proper Shipping Name	Class	PG (LiLII)	Product or Common	HazChem Code	Typical Qty	Unit eg t, kg
1073	Oxygen Refrigerated * Liquid	2.2		Liquid Öxygen	2PE	12500	\ \
	Cryogamic	Laguel	MO	= 10,000 PG =	ROKE COLL		
Depot No	.,				um Storage Co		, kg)
	Type of storage b				ا مرا um Storage Co		, kg) < (
Depot No DG2 UN Number	Type of storage b			s Class <u>Maxim</u> u	ا مرا um Storage Co		, kg) Unit eg L kg kg

<u>Depot No</u> DG3	Type of storage l	ocation o	or process	s Class <u>Maximu</u> 2.2 3000L	m Storage Co	spacity (L		Comerciae Latelle
UN Number	Proper Shipping Name	Class	PG (LILIU)	Product or Common	HazChem Code	Typical Qty	Unit V	HRQ
1977	Nitrogen, Refrigerated Liquid	2.2		Liquid Nitrogen	2RE	2000	L	1/190

Maximum Storage Capacity (L. kg) Type of storage location or process Class Depot No 500L Cylinder Store DG4

UN Number	Proper Shipping Name	Class	PG ((,11,01)	Product or Common Name	HazChem Code	Typical Qiy	Unit eg L, kg
1977	Nitrogen,	2.2	ļ	Liquid Nitrogen	2RE	200	[[
Ì	Refrigerated		•		ì		
L	Liquid			<u> </u>	_ <u>i</u>	L	

Depot No DG5	Type of storage Roofed Store	location (or proces	s Class Maximur 240	n Storage <u>Co</u>	apacity (L,	kg)
UN Number	Proper Shipping Name	Class	PG (1,11,111)	Product or Common	HazChem Code	Typical Qiy	Unit eg L kg
1791	Sodium Hypochlorite	8	11	Hypachlorite Salution	2X	180	L
1789	Hydrochloric Acid	8	il i	Hydrochloric Acid	2R	30	L

· Z	Above Ground	ł Tank	or proces	7 C1	20000i.			
<u> </u>	1 Vingare Digital	1 1 2 1 1 1 1		;				
N lumber i	Proper Shipping Name	Class	PG (III,III)	Product or Com: Name	no n	HazChem Code	Typical Qty	Unii eg L, kg
202	Diesel Fuel	Taili		Diesel Fuel		<u> </u>	20000	<u>[t</u>
						45		-
Depot No	Type of storage	location (or proces	s Class	<u>Maximur</u>	m \$torage Co	pacity (L	, kg)
)G7	Above Ground			C1	15000L			
JN Number	Proper Shipping Name	Class	PG (I,II,III)	Product or Comm	mon	HazChem Code	Typical Qty	Unit eg L, kg
202	Diesel Fuel	7 C1		Diesel Fuel			15000	L
)G <u>8</u> JN	Roofed Store Proper Shipping	Class	PG	Product or Com	mon	HazChem Code	Typical Qiy	Unit eg L, kg
<u>Number</u> 1791	Name Sodium	8		Hypochlorite S	alution	2X	70	i ı
	<u>Hypochlorite</u>			1,75001110111011			j	
Depot No DG9 UN Number 1013			PG (I,II,III)		Maximui 1801. mon	m Storage Co HazChem Code	<u> </u> 	, kg) Unliteg t, kg
DG9 UN Number	Type of storage Above Ground Proper Shipping Name Carbon Dioxide	Class 2.2 location	PG (I,H,III)	Product or Comp Name Carbon Dioxid	Maximui 1801. mon	m Storage Co HazChem Code	Typical Qty	Unit eg t, kg
DG9 UN Number 1013 Depot No	Type of storage Above Ground Proper Shipping Name Carbon Dioxide Type of storage	Class 2.2 location	PG (I,H,III)	Product or Companies Carbon Dioxid	Maximui 1801. mon e Maximui 2500L	m Storage Co HazChem Code	Typical Qty	Unit eg t, kg

Depot No	Type of storage i	ocation -	or proces	s Class I	<u>Maximun</u>	n Storage Co	pacify (L	<u>kg)</u>
DGII	Rooted Store			3	500L			
UN Number	Proper Shipping Name	Class	PG (I,II,III)	Product or Comm	mon	HazChem Code	Typical Qly	Unit eg <u>L, kg</u>
1170	Elhanol	3	11	Ethyl Alcohol		2(Y)E	300	<u> </u>

Depot No	Cylinder Store	ocation (or proces	s Class Maximu 2 120kg	m Storage Co	apacity (L	kg)	12PQ
UN Number	Proper Shipping Name	Class	PG (LILIII)	Product or Common Name	HazChem Code	Typical Qiy	Unit eg L, kġ	
1075	Petroleum Gas Liquefied	2.1		LPG	2WE	70	Kg	

Depot No	Type of storage location or process	Class	Maximum Storage Capacity (L, kg)
DG13	Cylinder Store	[2	47 L

UN Number	Proper Shipping Name	Class	PG (I,II,III)	Product or Common Name	HazChem Code	Typical Qly	Unit eg L. kg
1046	Helium	2.2		Helium	2(1)	47	Ĺ
	Compressed			<u> </u>		<u> </u>	

 Depot No
 Type of storage location or process
 Class
 Maximum Storage Capacity (L. kg)

 DG14
 Cylinder Store
 2
 2600 L

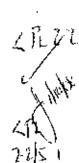
UN Number	Proper Shipping Name	Class	PG (1,11,111)	Product or Common Name	HazChem Code	Typical Qfy	Unil eg L, kg
1046	Helium	2.2 -		Helium	2T	6	L
	Compressed					ļ,,	
1070	Nitrous Oxide	2.2 ^		Nitrous Oxide	2P	850	L
1066	Nitrogen	2,2 、		Nitrogen	2T	95	<u>L</u>
1013	Carbon Dioxide	2.2 .		Carbon Dioxide	2RE	336	L
1002	Air	2.2		Medical Air	2(T)	769	L
1072	Oxygen	2.2 3	į.	Oxygen	2{\$}	478	L
	Compressed	<u> </u>	ļ	<u> </u>			

 Depot No
 Type of storage location or process
 Class
 Maximum Storage Capacity (L, kg)

 DG15
 Underground Tank
 C1
 12000L

UN	Proper Shipping	Ciass	PG	Product or Common	HazChem	Typical	Unit
Number	Name		(1,8,18)	Name	Code	Qty	eg L, kg
1202	Diesel Fuel	C1		Diesel Fuel	I	12000	<u>L</u>

Type of storage location or process Class Maximum Storage Capacity (L, kg) Depot No Decommissioned DG16 HazChem Typical Unit Product or Common UN Proper Shipping Class PG Code (1,11,11) Name Qty Number Na<u>me</u>







Depot No	Type of storage location or process	Class	Maximum Storage Capacity (L, kg)	
DG17	Cylinder Store	2	81 L	

UN Number	Proper Shipping Name	Class	PG (I.II.III)	Product or Common Name	HazChem Code	Typical Qiy	Unit eg L, kg	_
1072	Compressed Oxygen	2.2		Oxygen	2(\$)	19	Ŧ	
1013	Carbon Dioxide	2.2		Carbon Diaxide	2RE	24	L] 4
1001	Acetylene Dissolved	2.1		Acetylene i	/ 2(S)E	19	L	
1006	Argon Compressed	2.2		Argon	2(T)	19	L	

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Depot No	Type of storage location or process	Class	Maximum Storage Capacity (L, kg)
DG18	Fenced Compound	2	108kg

UN	Proper Shipping	Class	PG	Product or Common	HazChem	Typical	Unit
Number	Name		(1,0,10)	Name	Code	Qiy	eg L, kg
1075	Petroleum Gas Liquefied	2.1		LPG	2WE	100	kg

Depot No	Type of storage location or process	Class	Maximum Storage Capacity (L, kg)
DG19	Cylinder(s) in Use	2.1	112 L

UN Number	Proper Shipping Name	Class	PG (1,0,111)	Product or Common Name	HazChem Code	Typical Qiy	Unit eg L, kg	
1006	Argon Compressed	2.2		Argon	2(T)	94	Ĺ	
1001	Acetylene Dissolved	2.1		Acetylene	2(\$)E	9	L.] (
1072	Compressed	2.2/5	· i	Oxygen	2(\$)	9	L	}

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Depot No	Type of storage location or process	Class	Maximum Storage Capacity (L, kg)
DG20	Flammable Goods Cabinet	3	250L



UN	Proper Shipping	Class	PG	Product or Common	HazChem	Typical	Unit
Number	Name		(1,11,11)	Name	Code	Otv	eal ka
HALLIDGE	Nume		. 12:22:22	nume	-0000		eg L, kg

Depot No	Type of storage location or process	Class	Maximum Storage Capacity (L, kg)
DG21	Toxic Liquids Cabinet	6.1	120L

UN Number	Proper Shipping Name	Class	PG ([, ,)	Product or Common Name	HazChem Code	Typical Qiy	Unli eg i, kg
3017	Glyco- phosphale	6.1		Roundup	_	20	Ł
3017	Pesticide Organo- phosphorus	6,1	1111	Rogor		10	L

/ //o

Notification of Dangerous Goods on Premises Form

С	n	a	Λ	4
г	u	u	v	-

3010	Copper	6.1	II	Copper Oxychloride	 5	[[
	Oxychtoride					<u> </u>
3017	Bromoxymil	6.1	III	Bindi Killer	5	l.
3017	Pesticide	6.1	III	ChloralPyrophos	5	L
	Organo-					
	phosphorus	<u> </u>				

1

Depoi No	Type of storage ic	cation	or proces	s Class Maxim	um Storage Co	apacity (L	kg)	
DG22	Above Ground	Tank		C1 2500L				.7
UN	Proper Shipping	Class	PG	Product or Common	HazChem	Typical	Unit	,
Number	Name		(0,0,10)	Name	Code	Qfy	eg I, kg	
1202	Diesel Fuel	Cl	. ; 	Diesel Fuel		2500	Ł	< (Q
77								

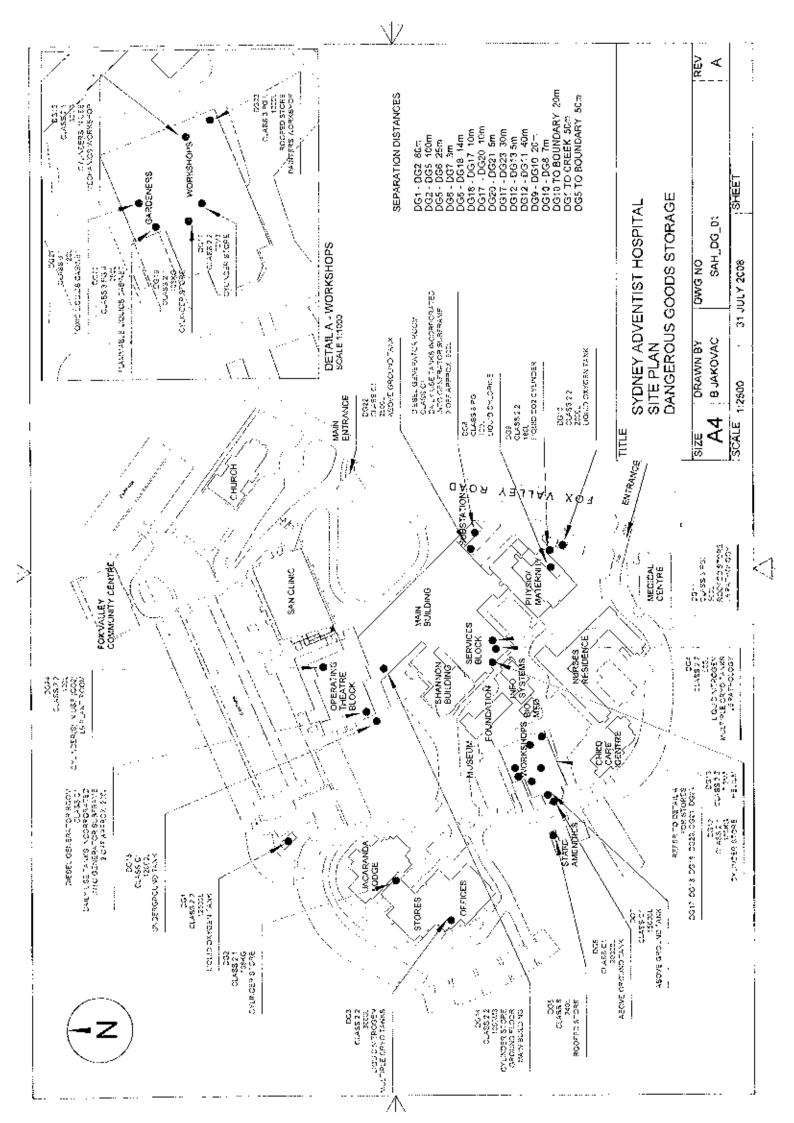
Depot No	Type of storage location or process	Class	Maximum Storage Capacity (L, kg)
DG23	Roofed Store	3	1000L

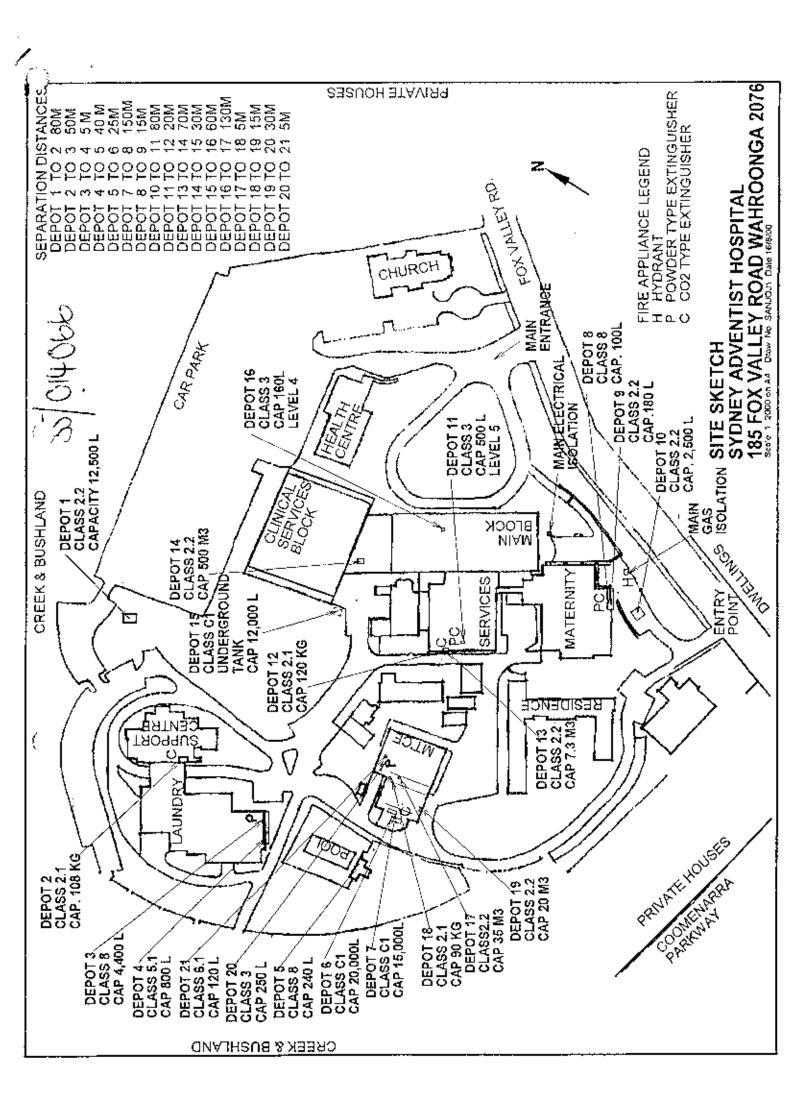
ŲN Number	Proper Shipping Name	Class	PG (ዚዚብ)	Product or Common Name	HazChem Code	Typical Qiy	Unit eg L, kg
1263	Paint Related	3		Paint, Thinners	3(Y)E	500	L
į	Material		<u>.</u>				
1170	Ethanol	3	<u> </u>	Ethanol	2{Y}E	20	L
1299	Turpentine	3		Turpentine	3{Y)	205	L
1950	Aerosols	2.1	!	Aerosols		20	L

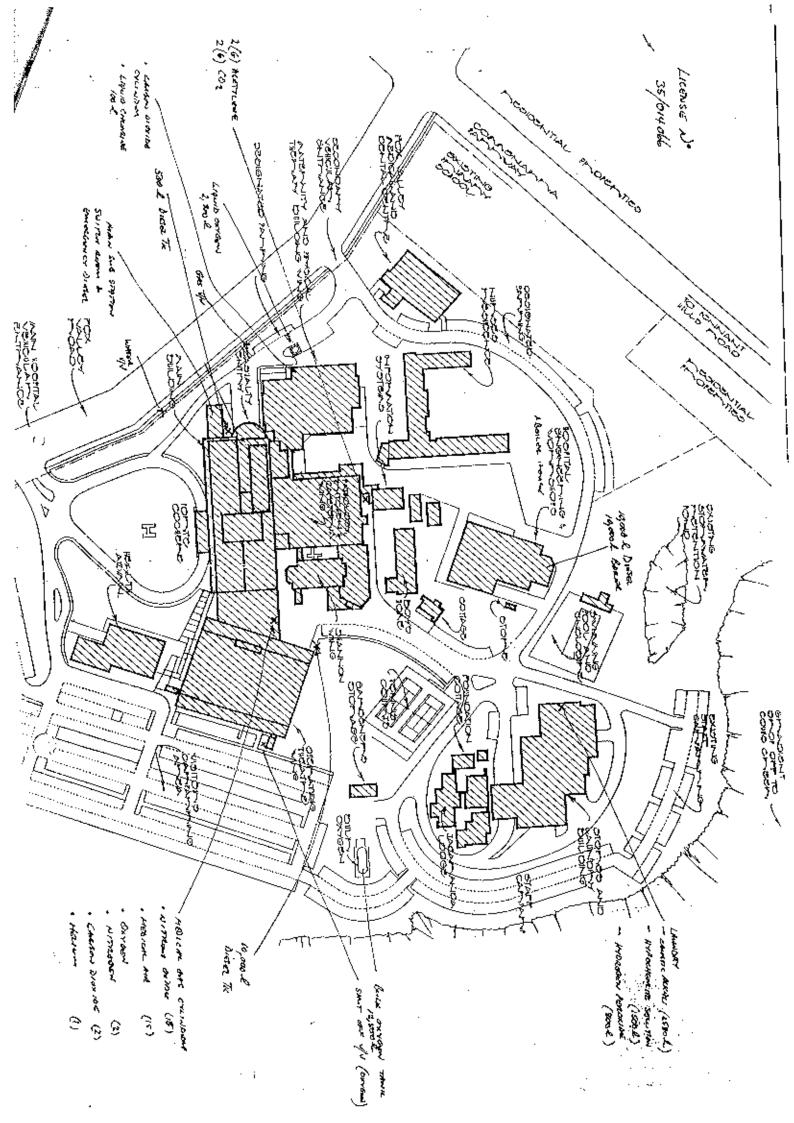
Depot No	Type of storage location or process	Class	Maximum Storage Capacity (L, kg)
DG24	Cylinder(s) in Use	2.1	100L

UN Number	Proper Shipping Name	Class	PG (LILIII)	Product or Common Name	HazChem Code	Typical Qiy	Unit eg L, kg
1006	Argon Compressed	2.2		Argon	2(T)	25m3	m³
1001	Acetylene Dissolved	2.1		Acetylene	2(\$)E	7.2	kg
1072	Compressed Oxygen	2.2 5	\	Oxygen	2[S]	1.6	m ³

Cpa.









APPLICATION FOR RENEWAL

OF LICENCE TO KEEP DANGEROUS GOODS

ISSUED UNDER AND SUBJECT TO THE PROVISIONS OF THE DANGEROUS GOODS ACT, 1975 AND REGULATION THEREUNDER

DECLARATION: Please renew licence number 35/014066 to 18/07/2000 . I confirm that all the licence details shown below are correct (amend if necessary).

THIS SIGNED DECLARATION SHOULD BE RETURNED TO:

for: AUSTRALASIAN CONFERENCE ASSOC LTD AS CORPORATE

WorkCover New South Wales Dangerous Goods Licensing Section

GPO BOX 5364 SYDNEY 2001

Enquiries: ph (02) 9370 5187

fax (02) 9370 6105

Details of licence on 19 November 1999 ASSOCIATION LTD

Licence Number 35/014066

Expiry Date 18/07/1999

AUSTRALASIAN CONFERENCE ASSOC LTD - ACN 050 030 010 Licensee

SYDNEY ADVENTIST HOSPITAL

000 003430

Postal Address: SYDNEY ADVENTIST HOSPITAL 185 FOX VALLEY RD WAHROONGA NSW 2076

Licensee Contact State MANTOWA/DOUG HITCHICK Ph. 9487 9070 Fax. 9489 7715

Premises Licensed to Keep Dangerous Goods

AUSTRALASIAN CONFERENCE ASSOCILTD SYDNEY ADVENTIST HOSPITAL

185 FOX VALLEY RD WAHROONGA 2076

Nature of Site HOSPITALS (EXCEPT PSYCHIATRIC HOSPITALS)

Major Supplier of Dangerous Goods NOT APPLICABLE

Emergency Contact for this Site SECURITY SERVICE (PAGE 033) Ph. 9487

SCIENTIFIC SERVICES

Site staffing 18 HRS 5 DAYS

Details of Depots

Н1

L\$2

LS3

Depot No. Goods Stored in Depay Depot Type

Class 3 ROOFED STORE

UN 1170 ETHANOL (ETHYL ALCOHOL) LS1 ABOVE-GROUND TANK Class 🛭

UN 1719 CAUSTIC ALKALI LIQUID, N.O.S. ABOVE-GROUND TANK Class 8

UN 1791 HYPOCHLORITE SOLUTION 1 Class 5,1 ABOVE-GROUND TANK UN 2014 HYDROGEN PEROXIDE, AQUEOUS SOLUTION

1500 L 1500 ե

800 L

800 L

Qty

1000 L

2580 L

2580 L

800 L

Form DG10



PTY LIMITED

Telephone: (02) 600 6555 Facsimile: (02) 821 1936

Australian Design Award 1988

ACN: 002 880 024

April 4, 1995

Work Cover Authority, Dangerous Goods Section, Lot Bag 10, Clarence Street Post Office, SYDNEY NSW 2001

33 Shepherd Street, Liverpool, NSW 2170

Attention : Mr. Phil Butt, Chief Inspector

Dear Sir,

RE: SYDNEY ADVENTIST HOSPITAL 185 FOX VALLEY ROAD, WAHROONGA.

000633RECEIVED 45 APR 1995 SCIENTIFIC SERVICES BRANCH

We have been contracted to supply and install a Diesel Generator System at the above premises. Part of this system, is the installation of a 10,000 litre capacity inground bulk distillate fuel tank.

On behalf of the owners "Adventist Hospital" and the builder "Fletcher Constructions", we wish to submit an application for approval, to install an inground bulk fuel tank, as detailed on the enclosed drawing JE 346-09A.

installation will comply with the requirements of 1940, as well as being provided with remote indication and cathodic protection of contents inground tank.

We trust the enclosed drawings contains sufficient information for your requirements. However, should you require any additional information, please advise the undersigned.

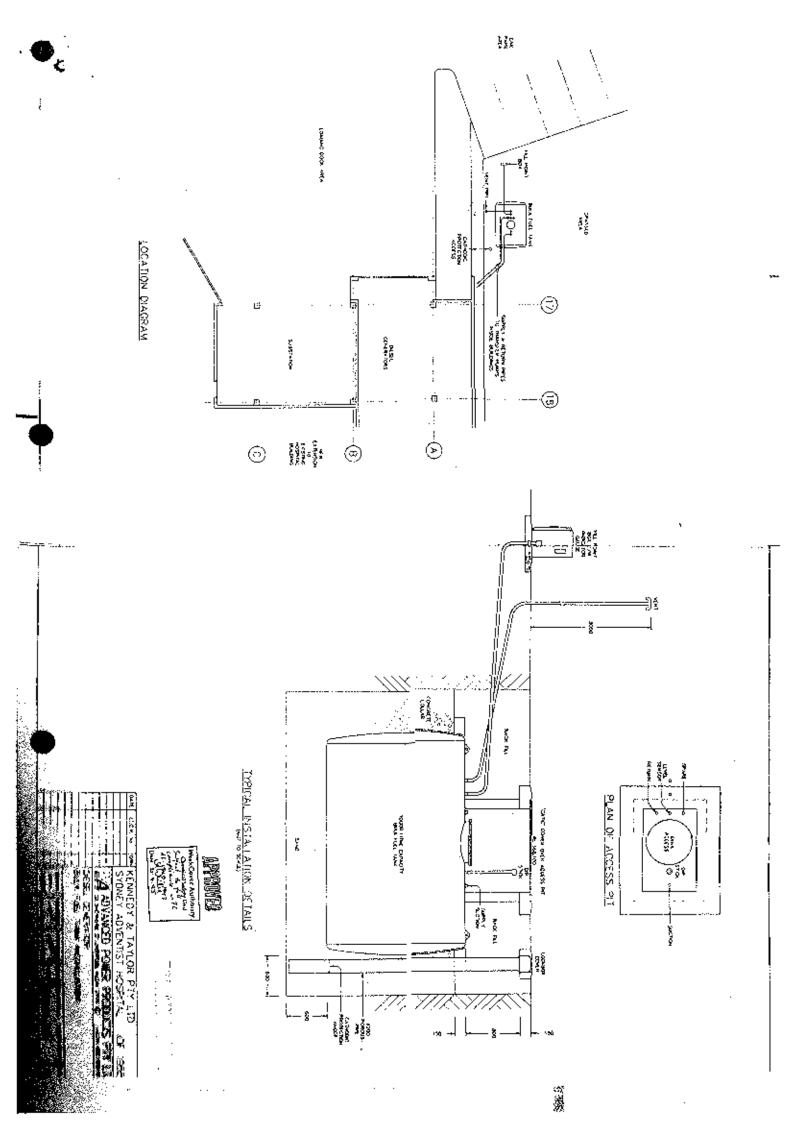
Thanking you for your assistance and advice,

Yours faithfully, ADVANCED POWER PRODUCTS (NSW) PTY.LTD.

A.J. WALKER

ASST. GENERAL MANAGER

Please attack to 35/014066. Thank you.



11,210 001

DG 8207 0001 - - 3 83 APPLICATION FOR LICENCE (or AMENDMENT or TRANSFER of LICENCE) FOR THE KEEPING OF DANGEROUS GOODS

Application is described below	thereby made for	*a licence (or a *the transfer o	unendment of the lic f the licence	ence) for the keeping of dangerous goods FEE: \$1000 per Depot for new	·
			ever is not required)	\$10.00 for amendment or	transfer,
Name of App) (see over)	licant in full	Austi	alian Con-	Perence Association L	imited.
Trading name name (if an		E		itist Hospital	
* Postal address	i			3388 Tavnavë	Postagde
Address of the street number	e premises including ber (if any)	185 F	ox Vallez	Road Wahroonga	
Nature of pres	mises (see over)	Hospit	à		
Telephone nur	mber of applicant	STD Code	1	Number 4279111	
Particulars of	type of depots and m	aximum quantit		ls to be kept at any one time.	
-	1			Dangerous goods	
Depot number	Type of d (see ove		Storage capacity 1. 1+1. C	Product being stored D I)	- C&C Office use only 804 060 7
1	Onderson	not low K	15000	Class 31 Petrol	2' 020
2	\mathcal{L}		15000		2 020 24
3	Abovectour	al Tank	2172 m ³	Class 22. Oxygen	1 040 2
4	RoofeTBack	age Store	1000	Class 31 32	6 020 1
5	(1200	<u> </u>			
6					
7					
8				**************************************	
9	.			× 4	
10					
11	-\				
12					<u> </u>
Has site plan b	een approved?	Yes -No-	If yes, no plans If no, please at		
Have premises	previously been licen	sed? Yes	4 1	ne of previous occupier,	
Name of comp	pany supplying flamm	able liquid (if a	4. 1		-
2 D		Sinnatura	a Canulian i	(f 1 a) Due	29.82
	xplosives magazine(s)			Date	
FOR OFFICE			EKTIFICATE OF IN		·
16.61	tify that the premise ods Regulation with	May	bonn	being an Inspector under the Dangerou he requirements of the Dangerous Goods ction for the keeping of dangerous goods of	us Goods Act, 1975, S Act, 1975, and the of the nature and in

DANGEROUS GOODS ACT, 1717 DO

<u></u>. APPLICATION FOR LICENCE (or AMENDMENT or TRANSFER of LICENCE) FOR THE KEEPING OF DANGEROUS GOODS

*a licence (or amendment of the licence) for the keeping of dangerous goods in or on the Application is hereby made for-*the transfer of the licence premises described below.

(*delete whichever is not required)

FEE: \$10.00 per Depot

7490 17/07/80 O3A

Name of Applicant in full (see over)		ONFERENCE ASSOCIATION Given Names	
Trading name or occupier's name (if any)	SYDNEY ADVEN	TIST HOSPITAL	
Postal address			Postcode
Telephone number of applicant	STD Code	Number	
Address of the premises in or on which the depot or depots are situated (including street number, if any)	185 Fox Vall	ey Road, WAEROONGA	Postcode 2076
Nature of premises (see over)	Hospital		

PLEASE ATTACH SITE PLAN

Particulars of type of depots and maximum quantities of dangerous goods to be kept at any one time.

	T 5 /		Storage		Dangerous goods			, his 803 860	
Depot number	Type of depot Storage (see over) capacity	Produc	t being stored		C & C Office use o	nty			
1	Underground Ta	ink	15000 ltre	Potrol	Class	-3-1	2020	<u>4.5</u>	
2	17	11	15,000 "	in)1 		2,020	2!	
3	Aboveground Ta	nk	2172 m ³	Oxygen .	· · · · · · · · · · · · · · · · · · ·	2.3	1 040	2	
4	i			<u>.</u>		·			
5			i i	<u> </u>			: 		
6	1			 					
7	;						<u>!</u>		
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9	<u></u>		:		,		:		
10	<u></u>			 	~~~.				
11	! , ,		·	 			<u> </u>		
12	<u> </u>			!			<u> </u>		

Name of company	y supplying flammable liquid (if any)	MOBIL
-----------------	---------------------------------------	-------

Have premises previously been licensed?

YES

If known, state name of previous occupier

as above

Signature of applicant

For external explosives magazine(s), please fill in side 2.

FOR OFFICE USE ONLY

CERTIFICATE OF INSPECTION

1 Mount & Rathing

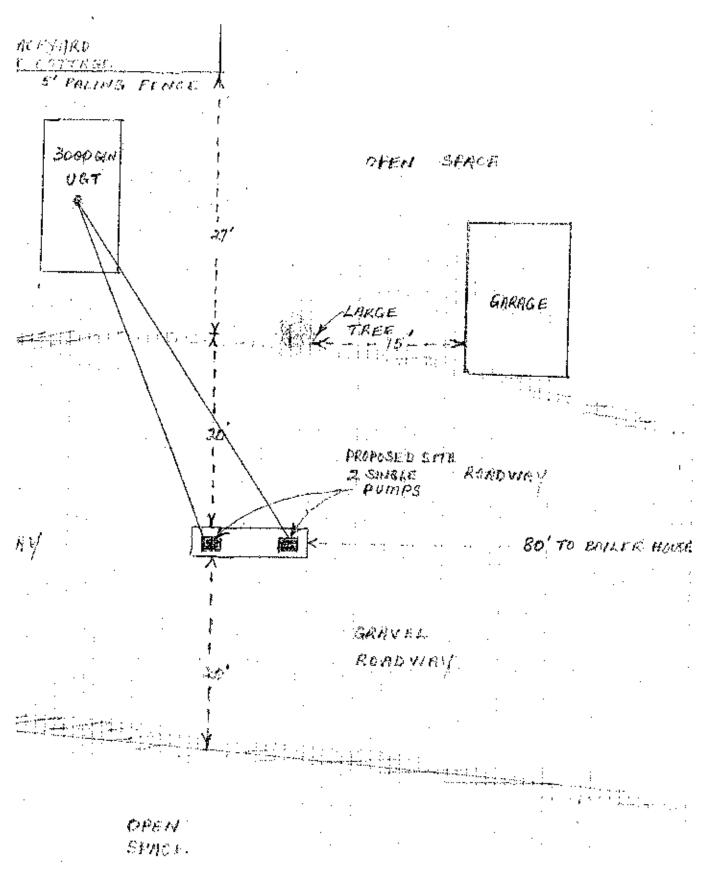
LICENCE No.

being an Inspector under the Dangerous Goods Act,

16 -00

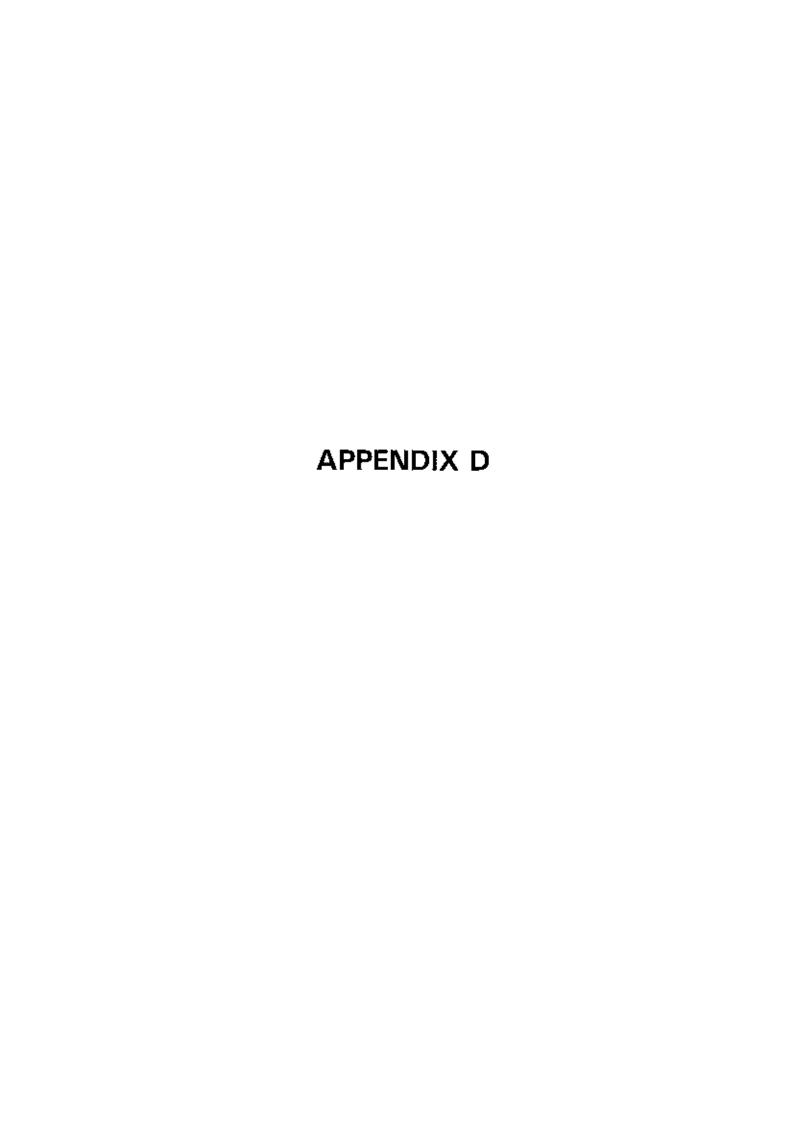
REAR OF SANTIARIUM HOSPITCH WAHROONGA.

STORE



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CE Mortest.





SOIL AND GROUNDWATER SAMPLING PROTOCOLS

These protocols specify the basic procedures to be used when sampling soils or groundwater for environmental site assessments undertaken by Environmental Investigation Services. The purpose of these protocols is to provide standard methods for: sampling, decontamination procedures for sampling equipment, sample preservation, sample storage and sample handling. Deviations from these procedures must be recorded.

SOIL SAMPLING

- (i) prepare a test pit/borehole log.
- (ii) Layout sampling equipment on clean plastic sheeting to prevent direct contact with ground surface. The work area should be at a distance from the drill/rig excavator such that the drill rig/excavator can operate in a safe manner.
- (iii) Ensure all sampling equipment has been decontaminated prior to use.
- (iv) Remove any surface debris from the immediate area of the sampling location.
- (v) Collect samples and place in a glass jar with a Teflon sea. This should be undertaken as quickly as possibly to prevent the loss of volatiles. If possible, fill the glass jars completely.
- (vi) Label the jar with the EIS job number, sample location (eg. TP1), sampling interval and date. If more than one sample container is used, this should also be indicated (eg. 2 = Sample jar 1 of 2 jars).
- (vii) Photoionisation detector (PID) screening of volatile organic compounds (VOCs) should be undertaken on samples using the soil sample headspace method. Headspace measurements are taken following equilibration of the headspace gasses in partly filled glass jars, PID headspace data is recorded on the borehole/test pit log and the chain of custody forms.
- (viii) Record the lithology of the sample and sample depth on the borehole/test pit log in accordance with AS1726-1993.

- (ix) Store the sample in a sample container cooled with ice or chill packs. On completion of the sampling the sample container should be delivered to the lab immediately or stored in the refrigerator prior to delivery to the lab.
- (x) Check for the presence of groundwater after completion of each borehole using an electronic dip metre or water whistle. Boreholes should be left open until the end of fieldwork. All groundwater levels in the boreholes should be rechecked on the completion of the fieldwork.
- (xi) Backfill the boreholes/test pits with the excavation cuttings or clean sand prior to leaving the site.

DECONTAMINATION PROCEDURES FOR SOIL SAMPLING EQUIPMENT

- All of the equipment associated with the soll sampling procedure should be decontaminated between every sampling location.
- (ii) The following equipment and materials are required for the decontamination procedure:
 - Phosphate free detergent (Extran 100)
 - Tap water
 - Two buckets
 - Stiff brushes
 - Plastic sheets
- (iii) Ensure the decontamination materials are clean prior to proceeding with the decontamination.
- (iv) Fill both buckets with clean tap water and add phosphate free detergent to one bucket.
- (v) In the bucket containing the detergent scrub the sampling equipment until all the material attached to the equipment has been removed.



- (vi) Rinse sampling equipment in the bucket containing tap water.
- (vii) Place cleaned equipment on clean plastic sheets

If all materials are not removed by this procedure, high-pressure water cleaning is recommended. If any equipment is not completely decontaminated by both these processes that equipment should not be used until it has been thoroughly cleaned.

GROUNDWATER SAMPLING

Groundwater samples are more sensitive to contamination than soil samples and therefore adhesion to this protocol is particularly important to obtain reliable, reproducible results. The recommendations details in AS2306.1 are considered to form a minimum standard.

The basis of this protocol is to maintain the security of the borehole and obtain accurate and representative groundwater samples. The following procedure should be used for collection of groundwater samples from previously installed piezometers.

- After piezometer installation, at least four (i) bore volumes should be pumped from the piezometers to remove any water introduced during the drilling process. Piezometers should then be left to recharge for at least five days before purging and sampling. Prior to purging or sampling the condition of each well should observed and any anomalies recorded on the field data sheets. The following information should be noted; the condition of the well, noting any signs of damage, tampering or complete destruction; the condition and operation of the well lock; the condition of the protective casing and the cement footing (raised or cracked); and, the presence of water between protective casing and well.
- (ii) Take the groundwater level from the collar of the piezometer using an electronic dipmeter. The collar level should be taken during the site visit using a dumpy level and staff.
- (iii) Purging and sampling of piezometers should generally be done on the same site visit. Layout and organize all equipment

associated with groundwater sampling in a location where they will not interfere with the sampling procedure and will not pose a risk of contaminating samples. Equipment generally required includes:

- New disposable polyethylene bailer and sufficient cord OR submersible pump.
- Micropore filtration system (for heavy metals samples).
- Filter paper (glass fibre and 0.45(m).
- Buckets with volume increments.
- Sample containers at least 1 x Teflon bottle with 1ml nitric acid, 1 x 75mL glass vial and 2 x 1L amber glass bottles for each piezometer.
- pH/Cond/Eh/T meters.
- Glass jars for purged samples.
- Esky and ice.
- Latex gloves.
- Distilled water (for cleaning).
- Electronic dipmeter.
- Groundwater sampling forms and notebook.
- Aluminium foil and labels.
- (iv) Clean the Micropore filtration system thoroughly with distilled water prior to use and between each sample. Filter paper should be changed between samples. 0.45um filter paper should be placed below the glass fibre filter paper in the filtration system.
- (v) Ensure all non-disposable sampling equipment is decontaminated or that new disposable equipment is available prior to any work commencing at a new location. The procedure for decontamination of groundwater equipment is outlined at the end of this section.
- (vi) Disposable gloves should be used whenever samples are taken to protect the sampler and to assist in avoidance of contamination.



- (vii) Purge at least four bore volumes from the well. Take pH, conductivity, redox potential, and temperature measurements of the purged groundwater at regular intervals during purging (Say, every 5-10 litres if abundant groundwater and every 1 litre if only limited groundwater is encountered). Groundwater condition measurements should be taken from a sample in a clean glass jar which has been taken directly from the sampling equipment (either pump or bailer). Electrodes should be placed in the sample after the electrodes have been rinsed with distilled water. Purged volumes and groundwater measurements should be recorded on the field sampling sheet. An assessment of the turbidity of the sample should also be made based on three categories: silty, opaque and clear.
- (viii) Prepare all sample bottles. Label bottles with EIS job number, borehole number and date of collection.
- (ix) Fill amber sample bottles and BTEX vial directly from pump or bailer. Ensure sampling equipment does not touch sample containers. Sample bottles and vials must be filled to the brim, so that a reverse meniscus is formed, seal with aluminium foil and then cap. Check that no air has entered the sample invert and check for bubbles.
- (x) Fill vacuum filtration system and turn on filter pump.
- (xi) Undertake pH/Cond/Eh/T of a sample taken in a clean glass jar used only for groundwater condition measurements. Turn the meters on and insert the electrodes into the sample. Record the measurements when the instruments have stabilized, then discard the sample. Clean the electrodes with distilled water between measurements.
- (xii) When the sample filtering is complete (note: at least 50mL of filtered sample is required for heavy metal analysis), decant the filtered sample into a Teflon bottle containing nitric acid. Check label of sample bottle to ensure container has been treated with nitric acid and not sulfuric acid. Clean the filtration system with distilled

- water and replace the filters ready for the next sample.
- (xiii) Photoionisation detector (PID) screening of volatile organic compounds (VOC) should be undertaken on groundwater samples using the sample headspace method during fieldwork. VOC data is obtained from partly filled glass jar samples following equilibration of the headspace gases. The PID headspace data should be included on the chain of custody forms and borehole logs.
- (xiv) Store the sample in a sample container cooled with ice or chill packs. On completion of the sampling the sample container should be delivered to the lab immediately or stored in the refrigerator prior to delivery to the lab.
- (xv) Record the sample on the appropriate log in accordance with AS1726-1993. At the end of each water sampling complete a chain of custody form.

DECONTAMINATION PROCEDURE FOR GROUNDWATER SAMPLING EQUIPMENT

- All of the equipment associated with the groundwater sampling procedure should be decontaminated between every sampling location.
- (ii) The following equipment and materials are required for the decontamination procedure:
 - Phosphate free detergent (Extran 100).
 - Tap water.
 - Distilled water,
 - Two buckets.
 - Plastic sheets.



- (iii) Fill one bucket with clean tap water and phosphate free detergent, and one bucket with distilled water.
- (iv) Flush tap water and detergent through pump. Wash sampling equipment and pump head using brushes in the bucket containing detergent until all materials attached to the equipment are removed.
- (v) Flush pump with distilled water.

- (vi) Change water and detergent solution after each sampling location.
- (vii) Rinse sampling equipment in the bucket containing distilled water.
- (viii) Place cleaned equipment on clean plastic sheets.

If all materials are not removed by this procedure that equipment should not be used until it has been thoroughly cleaned.



QA/QC DEFINITIONS

The QA/QC terms used in this report are defined below. The definitions are in accordance with current US EPA SW-846 (1994) methods and those described in Environmental Sampling and Analysis, A Practical Guide, (H. Keith 1991).

Practical Quantitation Limit (PQL), Limit of Reporting (LOR) and Estimated Quantitation Limit (EQL)

These terms all refer to the concentration above which results can be expressed with a minimum 95% confidence level. The laboratory reporting limits are generally set at ten times the standard deviation for the Method Detection limit (MDL) for each specific analyte. For the purposes of this report the LOR, PQL, and EQL are considered to be equivalent.

When assessing laboratory data it should be borne in mind that values at or near the PQL have two important limitations.

"The uncertainty of the measurement value can approach, and even equal, the reported value. Secondly, confirmation of the analytes reported is virtually impossible unless identification uses highly selective methods. These issues diminish when reliably measurable amounts of analytes are present. Accordingly, legal and regulatory actions should be limited to data at or above the reliable detection limit", Keith (1991).

Accuracy

The proximity of an averaged result to the true value, where all random errors have been statistically removed. Accuracy is measured by percent recovery. Acceptable limits for accuracy generally lie between 70% to 130% recoveries. Certain laboratory methods may allow for values that lie outside these limits.

Precision

The degree to which data generated from repeated measurements differ from one another due to random errors. Precision is measured using the standard deviation or Relative Percent Difference (RPD). Acceptable targets for precision in this report will be less than 50% RPD for concentrations greater than ten times the PQL, less than 75% RPD for concentrations between five and ten times the PQL and less than 100% RPD for concentrations that are less than five times the PQL.

Blanks

The purpose of laboratory and field blanks is to check for artifacts and interferences that may arise during sampling and analysis.

Matrix Spikes

Samples are spiked with laboratory grade standards to detect interactive effects between the sample matrix and the analytes being measured. Matrix Spikes are reported as a percent recovery and are prepared for 1 in every 20 samples. Sample batches that contain less than 20 samples



may be reported with a Matrix Spike from another batch. The percent recovery is calculated using the formula;

Acceptable recovery limits are 70% to 130%.

Surrogate Spikes

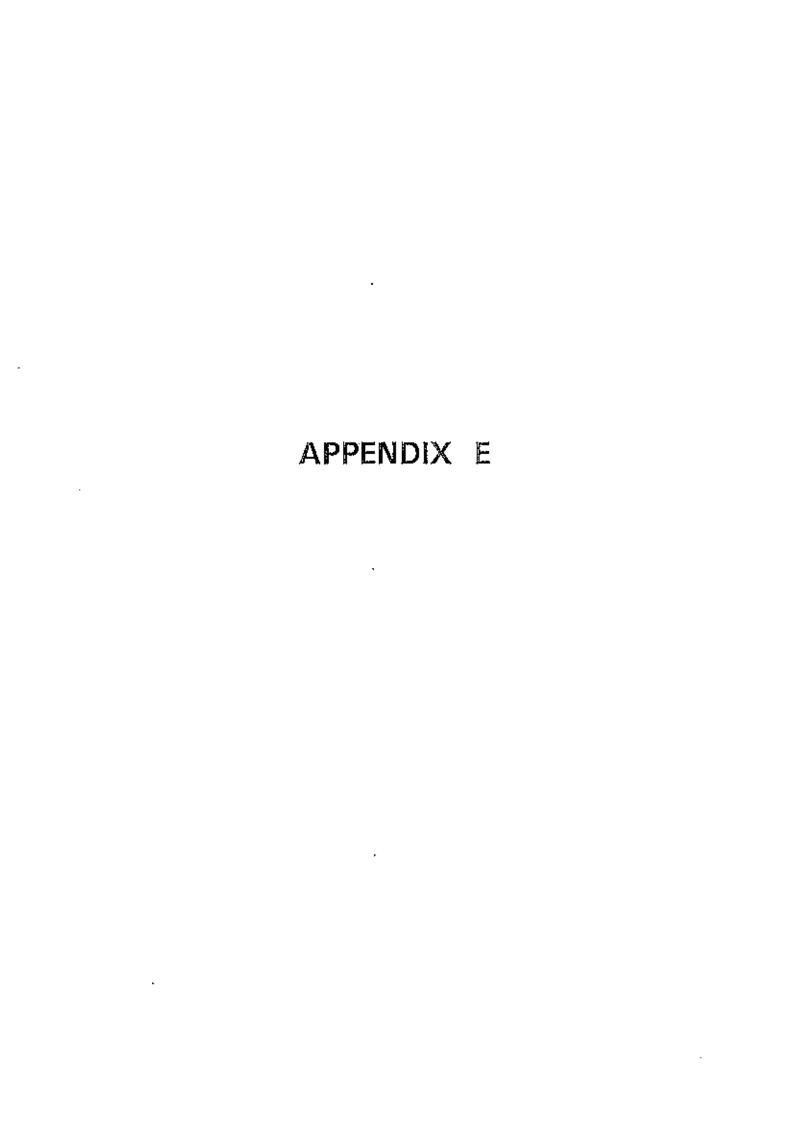
Samples are spiked with a known concentration of compounds that are chemically related to the analyte being investigated but unlikely to be detected in the environment. The purpose of the Surrogate Spikes is to check the accuracy of the analytical technique. Surrogate Spikes are reported as percent recovery.

Duplicates

Laboratory duplicates measure precision, expressed as Relative Percent Difference. Duplicates are prepared from a single field sample and analysed as two separate extraction procedures in the laboratory. The RPD is calculated using the formula:

$$\frac{|D1-D2|}{|(D1+D2)/2|} \times 100$$

where D1 is the sample concentration and D2 is the duplicate sample concentration.





Groundwater Monitoring Well Development Report

Client: Origin Properties Job No.: E22758K							
	lpgrade and Ex	tensions		Well No.:	MWIT		
	Location: San Hospital, Fox Valley Road, Wahroonga Depth (m):						
WELL FINISH DETAILS							
X Gatic Cover		Standpipe		PVC Pipe			
WELL DEVELOPMENT	DETAILS						
Method:	Lleitor Pa	w. SWL	– Before: (m)	2.1	94		
Date:	23 02 00	·	- Before:				
Undertaken By:	. BP	SWL	- After: (m)	5 5	3		
Total Vol. Removed:	Approx 9		– After:				
PID Reading (ppm):							
Comments:							
DEVELOPMENT MEASU		,	γ.———		•		
Volume Removed	Temp (°C)	pН	EC	DO	Eh (mV)		
(L)			(mS/m)	(mg/L)			
<u>.</u> <u>.</u>	30.3	5-86	295-0	İ	1.2.		
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Date Tested:	j - All meas	— surements are co		ind level			
Checked By:		ed Volumes are it		e level			
Date:	I	an abbreviation t state conditions	_	ter level the pH less than 0.	.2 units and		
	differen	ice in conductivit	y less than 109	V ₀			
!	- Minimur	m 3 monitoring v	vell volumes are	e purged			



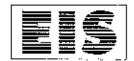
Groundwater Monitoring Well Development Report

Client: Origin Propo Project: Proposed U Location: San Hospita	nga	Job No.: Well No.: Depth (m):	E22758K MW 3		
WELL FINISH DETAILS				•	
X Gatic Cover	<u> </u>	Standpipe		PVC Pipe	
WELL DEVELOPMENT (
Method:	Chelia Pun	y SWL	- Before: (m)	4	7 7
Date:	9.3 - 02 - 09	i !	- Before:		
Undertaken By:	₽ ₽		- After: (m)	보기 기가 기가 기가 기가 기가 기가 기가 기가 기가 기가 기가 기가 기가	u j
Total Vol. Removed:	2.1	Time	- After:		
PID Reading (ppm):	l				
Comments:					
DEVELOPMENT MEASU	JREMENTS				
Volume Removed	Temp (°C)	рН	EC	DO	Eh (mV)
(L)			(mS/m)	(mg/L)	
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Comments: No hardware a character rate after particulational to					
Tested By:	Remarks	<u></u>			
Date Tested: Checked By: Date:	- All meas - All stated - SWL is a - Steady s difference	 urements are co d Volumes are i in abbreviation t tate conditions te in conductivit	for standing wat	ter level he pH less than 0. á	2 units and

Cal P!	1 60121. GC2068 oup Sup Or	pl 7.00 SLP 995%
Car k.	y world action say some 10	pll 4.01 Str 113/
cal ic	Bale 1 113235 pap Den 09 Volet	14.76pes (2) 21-272 , superson 1.006 (2)
621 Barry	10 4 14 W. A. C.	

JOB NO: E227548K

LOCATION: SAN HOSPITAL, WAHROONGA



FIELD CALIBRATION CERTIFICATE

PID			
Make: MiniRAE	Model: 2000	Unit	Date of last factory calibration:
Date of calibration:		Name of Calibrator:	
Calibration gas: Iso-butyle	ene	Calibration Gas Concen	tration: 100.0 ppm
Measured reading:	ppm	Error in measured readi	ng: ± ppm
DISSOLVED OXYGE	N		
Make:		Model:	
Date of calibration:		Name of Calibrator:	· · · · · · · · · · · · · · · · · · ·
Theoretical value: 101% to	0 103%	···-	
Measured value:			
pH METER			
Make: Orion		Model: Four star	
Date of calibration: 2.3	- 03 - 09		BP
Buffer 1: Theoretical pH =	7.01± 0.01	Expiry date: 5000	Lot No: ムと2の6%
Buffer 2: Theoretical pH =	4.01± 0.01	Expiry date: 324 10	Lot No: CGILID
Measured reading of Buffe	er 1: 7.00		
Measured reading of Buffe	er 2: 4-01		
Slope: 99.5%			
CONDUCTIVITY ME	TER		
Make: Orion		Model: 130a	
Date: 73.03.09	Name of Calibrator:	BP	Temperature: ⊘4, ≥ °C
Calibration solution: 1 100	Harging Stevelar	Expiry date: වශය වල	Lot No: ヤルコととの
Theoretical conductivity at	t temperature (see soli	ution container):	>> 1236 μ S/cm
Measured conductivity:			1476 µS/cm
REDOX METER		· · · · · · · · · · · · · · · · · · ·	
Make: Orion		Model: 250A	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Date of calibration: 23	-03-09	Name of Calibrator: 🙈	P
Catibration solution:		Expiry date:	Lot No:
Theoretical redox value:		240mV	
Measured redox reading:	241/	Ţ mV	

JOB NO: E227548K

LOCATION: SAN HOSPITAL, WAHROONGA



FIELD CALIBRATION CERTIFICATE

PID							
Make: MiniRAE	Make: MiniRAE Model: 2000		Date of last fac calibration:	lory ·			
Date of calibration:	8-03-09	Name of Calibrator:	BP	·			
Calibration gas: Iso-butyle	ene	Calibration Gas Concer	ntration: 1	00.0 ppm			
Measured reading:	(<i>0.0</i> ppm	Error in measured read	ing: ±	O ppm			
DISSOLVEDOXYGE	N .			× • •			
Make:		Model:		~~ -			
Date of calibration:	,	Name of Calibrator:					
Theoretical value: 101% to	o 103%	•					
Measured value:							
pH METER							
Make: Orion		Model: Four star					
Date of calibration:		Name of Calibrator:					
Buffer 1: Theoretical pH =	7.01± 0.01	Expiry date:	Lot No:				
Buffer 2: Theoretical pH =	4.01± 0.01	Expiry date:	Expiry date: Lot No:				
Measured reading of Buffe	er 1:	A					
Measured reading of Buffe	er 2:			·/·· CL			
Slope:							
CONDUCTIVITY ME	TER						
Make: Orion		Model: 130a					
Date:	Name of Calibrator:		Temperature:	°C			
Calibration solution:		Expiry date:	Lot No:				
Theoretical conductivity at	t temperature (see solu	ution container):		µ\$/cm			
Measured conductivity:			·	μS/cm			
REDOX METER							
Make: Orion		Model: 250A					
Date of calibration:		Name of Calibrator:	\				
Calibration solution:		Expiry date:	Lot No:				
Theoretical redox value:							
Measured redox reading:		mV					



Groundwater Monitoring Well Sampling Report

Client: Sydney	Sydney Adventist Hospital				Job No.: 122750 K		
Project: SAH U	pgrade 4 e	xtersions	· ·	Well No.:	MW3		
Location: $\Gamma_{o\times}$ V_o	Lley Rd		~	Depth (m):	· .		
WELL FINISH DETAILS							
Gatic Cover		Standpipe		PVC Pipe			
WELL DEVELOPMENT	DETAILS						
Method:	i en en		- Before: (m)	4 6	Ben .		
Date:	i di di Zia di	Time	– Before:				
Undertaken By:	1.3.1		- After: (m)				
Total Vol. Removed:		Time	– After:				
PID Reading (ppm):	<u></u>			· ·			
Comments:							
DEVELOPMENT MEASU	JREMENTS						
Volume Removed	Temp (°C)	рН	}∈EC	DO	Eh (mV)		
(L)			(mS/m)	(mg/L)	<u></u>		
South	122 6	5.75	11/1/	(A75)	[]		
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Comments: (a, a)	·	<u> </u>		اً	<u> </u>		
Comments: (An application)	e e termina de tra				" La d'ame		
Tested By:	Remark						
Date Tested:	.	==: surements are co	priected to groun	nd level			
Checked By:	- All state	ed Volumes are in	n Litres				
Date:		an abbreviation f					
Date.		state conditions ce in conductivit		ne pH less than 0	2 units and		
		m 3 monitoring v					



Groundwater Monitoring Well Sampling Report

Client: Symmey Advertist Hospital						o.:	1.22758K
Project: SAH Upgrade + Letasions					Well N		74G177
Location: Fox Val	My Rd	Wahres	الدوم وكار		Depth	(m):	
WELL FINISH DETAILS							
✓ Gatic Cover		Stand	pipe		PVC	Pipe	
WELL DEVELOPMENT	DETAILS						
Method:	$F_{ares}(x)$		ı	– Before: (m	}	3.2	Y(C)
Date:	24/08	*/	Time Before:			٠.	
Undertaken By:	i kir			– After: (m)			
Total Vol. Removed:		!	Time	- After:			
PID Reading (ppm):							
Comments:							
DEVELOPMENT MEASU	·	· ·		Υ			<u></u>
Volume Removed	Temp (°C	3) p	Η	/EC	!	00	Eh (mV)
(L)			o	(mS/m)		ig/L)	
and Experience	217	G.C	171	777	!	W	14,700
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				:	.		-
Comments: (177)	$\frac{1}{\alpha} = A = 1$	e kars		i	1		L
Comments:	ef et ori	6.666					
Tested By:	Rema	arks:					
Date Tested:			nts are cr	orrected to grou	und level		
Checked By:		stated Volun	•				
Date:	I			for standing wa - difference in t		ss than O.	2 units and
	diffe	erence in col	nductivit	y less than 105	%	33 tiuri G.	Z unita una
:	. Minii	mum 3 mai	aitoring v	well volumes ar	e purged		

JOB NO: E227548K

LOCATION: SAN HOSPITAL, WAHROONGA



FIELD CALIBRATION CERTIFICATE

PID						
Make: MiniRAE	Model: 2000	Unit:	Date of last factory calibration:			
Date of calibration:	l <u> </u>	Name of Calibrator:	i			
Calibration gas: Iso-butyle	ene _{grad}	Calibration Gas Concer	Itration: 100.0 ppm			
Measured reading:	ppm	Error in measured readi	ng: ± ppm			
DISSOLVED OXYGEN						
Make:		Model:	27-77-28/2019 1 (2011 A			
Date of calibration:		Name of Calibrator:				
Théoretical value: 101% to	o 103%					
Measured value:						
pH METER						
Make: Orion		Model: Four star				
Date of calibration: 9:	1/3/00	Name of Calibrator:				
Buffer 1: Theoretical pH =	7.01± 0.01	Expiry date: September 200	Lot Not 77 77 77			
Buffer 2: Theoretical pH =	4.01± 0.01	Expiry date: 🚕 🔞	Lot No: Security			
Measured reading of Buffe						
Measured reading of Buffe	er 2: 7 / 2					
Slope: 100 %						
CONDUCTIVITY MET	ΓER					
Make: Orion		Model: 130a				
Date:	Name of Calibrator:	(*)}	Temperature: >> - 8 °C			
Calibration solution:	Mary of	Expiry date:,	Lot No: 3 + + 1 2			
Theoretical conductivity at	t temperature (see solu	ution container):	⊕ _{elect} > μS/cm			
Measured conductivity:			1518 µS/cm			
REDOX METER						
Make: Orion		Model: 250A				
	11/09		3(1			
<u> </u>	et i	Expiry date: (2004) Lot Not 10574 19				
Theoretical redox value:						
Measured redox reading:	267	∠ mV				